



cg ee

Centro de Gestão e Estudos Estratégicos
Ciência, Tecnologia e Inovação

Monitoramento em Biotecnologia Desenvolvimento científico e tecnológico

3º Relatório

Volume III - Autores e Países

Coordenação
Profª Adelaide Antunes

Março, 2005

MONITORAMENTO EM BIOTECNOLOGIA

Desenvolvimento científico e tecnológico

3º Relatório

Volume III

Artigos: Autores e Países

Executor:

Sistema de Informação sobre a Indústria Química (SIQUIM)

Escola de Química / Universidade Federal do Rio de Janeiro (UFRJ)



Março / 2005

A Biotecnologia tem sido destacada como tecnologia portadora do futuro e conseqüentemente, com alto componente de desenvolvimento econômico e social, em vários países, principalmente nos últimos anos. O estudo "Monitoramento em Biotecnologia" encomendado pelo CGEE ao SIQUIM/EQ/UFRJ, permite visualizar a dinâmica de P,D&I desta área, a diversidade de atores envolvidos e o forte escopo de atuação em desenvolvimentos que impactam fortemente "Saúde e Qualidade de vida", bem como a "Agricultura e Meio ambiente", por meio de desenvolvimento acelerado de publicações científicas e de patentes nos Temas e/ou Termos tratados neste estudo.

Reforça-se, então, que este estudo representa um instrumento importante de apoio à decisão aos *stakeholders* atuantes na área, pois permite priorizar ações concernentes ao desenvolvimento e estímulo ao uso sustentável da biodiversidade, à segurança biológica e à produção de bioprodutos, biodrogas, transgênicos..

**EQUIPE:****Coordenação Geral:**

Profª Dra. Adelaide Antunes

Coordenação Técnica:

Dra. Claudia Canongia

Pesquisadores:

Simone Alencar

Nicomedes Déscio Pereira Neto

Ana Carolina Manguiera

Andressa Gusmão

Daniel Hoefle

Fernando Tibau

Max Arnor

Engenheira Química, Doutoranda EQ/UFRJ

Químico Industrial, Mestrando EQ/UFRJ

Estagiária, Engenharia Química EQ/UFRJ

Estagiária, Engenharia Química EQ/UFRJ

Estagiário, Engenharia Química EQ/UFRJ

Estagiário, Química Industrial EQ/UFRJ

Estagiário, Ciências Atuariais IM/UFRJ

SUMÁRIO

INTRODUÇÃO	6
1. TEMA: BIODIVERSIDADE/BIOPROSPECÇÃO	9
1.1 BANCOS DE GERMOPLASMA.....	20
1.2 HERBÁRIOS E DEMAIS FORMAS DE CONSERVAÇÃO EX SITU	22
1.3 LEGISLAÇÃO	28
1.4 BIODIVERSIDADE MARINHA.....	29
1.5 PATRIMÔNIO GENÉTICO	35
1.6 CONHECIMENTO TRADICIONAL.....	37
1.7 MERCADO DE PRODUTOS DA FLORESTA	37
1.8 PROPRIEDADE INTELECTUAL.....	39
1.9 FITOMEDICAMENTOS.....	40
2 TEMA: BIOECONOMIA	48
3 TEMA: BIOINDÚSTRIA	56
3.1 BIOPRODUTOS	58
3.2 DESIGN	62
4 TEMA: BIOINFORMÁTICA	63
4.1 APLICAÇÕES PARA GENOMAS E PROTEOMAS E BIODIVERSIDADE	66
5 TEMA: BIORREMEDIAÇÃO.....	68
5.1 MEIO AMBIENTE	72
5.2 MICROORGANISMOS.....	74
6 TEMA: BIOTERRORISMO	76
6.1 LEGISLAÇÃO	80
7 TEMA: CERTIFICAÇÃO DE QUALIDADE BIOLÓGICA.....	81
8 TEMA: DEFESA AGROPECUÁRIA.....	82
8.1 SISTEMAS EFETIVOS DE MONITORAMENTO.....	82
9 TEMA: FARMACOGENÉTICA	90
10 TEMA: FERTILIDADE E REPRODUÇÃO ANIMAL.....	95
10.1 CLONAGEM	98
10.2 CÉLULAS TRONCO	99
11 TEMA: INTEGRAÇÃO: ALIMENTAÇÃO, NUTRIÇÃO E SAÚDE.....	100
11.1 NUTRACÊUTICOS.....	107

	5
11.2	ORGANISMOS GENETICAMENTE MODIFICADOS 116
11.3	PRODUTOS ORGÂNICOS..... 118
11.4	QUALIDADE DE VIDA 119
11.5	PRODUÇÃO DE VACINAS EM PLANTAS E ANIMAIS..... 124
11.6	WELFARE 129
12	TEMA: METAGENÔMICA/ PROSPECÇÃO GÊNICA 133
13	TEMA: PROGRAMAS DE DESCOBERTA 136
13.1	GENÔMICA FUNCIONAL 136
13.2	NANBIOTECNOLOGIA 138
13.3	IN SILICO BIOLOGY 139
14	TEMA: SEGURANÇA BIOLÓGICA 140
15	TEMA: SUSTENTABILIDADE AMBIENTAL 144
15.1	ORGANISMOS GENETICAMENTE MODIFICADOS 144
15.2	BIOINSETICIDAS 146
15.3	BIOFUNGICIDAS 148
	ANEXO: ARTIGOS REINCIDENTES EM DIFERENTES TEMAS E/OU TERMOS..... 150
	ARTIGOS REINCIDENTES ENTRE TEMAS DISTINTOS: 151
	ARTIGOS REINCIDENTES ENTRE TEMAS E TERMOS: 153
	ARTIGOS REINCIDENTES ENTRE TEMAS: 176

INTRODUÇÃO

Este terceiro relatório, constituído de três Volumes, objetiva identificar países e atores (depositantes ou autores) de maior representatividade no Estudo sobre o Mapeamento em Biotecnologia, segundo temas e termos demandados pelo CGEE:

- Volume 1 refere-se aos mais representativos depositantes de patentes (Parte A) e autores de artigos (Parte B), com as respectivas Classificações: Atividade da Economia CNAE do IBGE (patentes) e Áreas do Conhecimento do CNPq (artigos);
- Volume 2 refere-se às patentes apresentando os países e os depositantes conforme distribuição da frequência;
- Volume 3 refere-se aos artigos apresentando os países e os autores/respectivas instituições, conforme distribuição da frequência.

Para as patentes são apresentadas as informações título, ano da prioridade/ data do primeiro depósito, número da patente, por país e depositante. No caso do(s) depositante(s) de maior representatividade a classificação CNAE foi adicionada, no entanto cabe chamar a atenção de que a mesma é muito ampla, não permitindo em alguns casos correlacionar de uma forma mais direta, sendo quando possível, necessário chegar ao nível micro, grupo 731 – Pesquisa e Desenvolvimento das Ciências Físicas e Naturais, como por exemplo classe 7310-5 -Pesquisa Biogenética ou Pesquisa Biológica ou Pesquisa de Alimentos etc, que se encontram na divisão 73 - Pesquisa e Desenvolvimento pertencente a seção K atividade Imobiliárias, Aluguéis e Serviços Prestados às Empresas. Para alguns casos, mesmo no nível micro não se localiza um indexador adequado, como na seção N, Saúde e Serviços Sociais, divisão 85 - Saúde e Serviços Sociais, o nível micro corresponde ao grupo 851 – Atividade de Atenção a Saúde.

Para os artigos são apresentadas as informações de título por país e por autor com respectiva instituição. No caso do(s) autor(es) de maior representatividade adicionou-se a indexação da Área do Conhecimento do CNPq, nos níveis macro e meso, e optou-se por também incluir a indexação da base de dados *Web of Science* tendo em vista que a indexação desta base contempla áreas multidisciplinares, inclusive a Biotecnologia.

Como exemplo da indexação segundo áreas do conhecimento do CNPq tem-se: a) Ciências Agrárias no nível macro e Engenharia Agrícola Nível meso; b) Ciência Biológica nível macro e Genética nível meso; c) Ciência da Saúde nível macro e Nutrição nível meso; d) Ciências Sociais e Aplicadas nível macro e Economia nível meso; e) Ciências Humanas nível macro e Ciências Políticas nível meso; f) Ciências Exatas e da Terra nível macro e Química nível meso; g) Engenharias nível macro e Engenharias de Materiais nível meso; e h) Outras Áreas nível macro e Biomedicina nível meso.

É importante observar, conforme primeiro relatório, que certos Temas e/ou Termos não são objeto de patenteamento e/ou de publicação de artigo, no período considerado. Por outro lado artigos e patentes são comuns a diferentes Temas e/ou Termos implicando na análise de mais de 6 mil ocorrências de patentes e 110 mil ocorrências de artigos. A apresentação das patentes que se referem a diferentes

Temas e Termos, fazem parte do Anexo do Volume 2; da mesma forma a apresentação dos artigos que se referem a diferentes Temas e Termos, fazem parte do Anexo do Volume 3.

✓ *Considerações sobre o tratamento e análise*

No tratamento dos inúmeros Temas e Termos do estudo, nem sempre ocorreu concentração de países, depositantes e autores, dado que a amostra é bastante heterogênea relativo tanto a patenteamento quanto a publicação, implicando em vários casos na não aplicação da metodologia *top ten*. Nos poucos casos em que houve um país com uma representatividade bastante superior ao segundo país, (ou seja este com menos de 10% do líder), focou-se somente na liderança, identificando o principal depositante e autor.

Nos casos em que na distribuição de freqüência não havia uma liderança expressiva, optou-se por elencar a faixa mais significativa de países, ou seja, o último país a ser considerado representa cerca de 10% do mais representativo. Como exemplo, no Tema Biodiversidade os EUA aparece como principal país em publicação de artigos (840), e o último país considerado foi o Canadá (127). A identificação do(s) autor(es) principal(is) levou em conta este extrato, em que neste caso o principal autor que aparece com 12 artigos é do segundo país do *ranking*, a Inglaterra com 324 artigos ao todo.

Esta metodologia foi aplicada visando não perder aqueles mais significativos autores, o mesmo procedimento foi aplicado na análise das patentes.

Outro exemplo que ilustra bem a necessidade de inclusão de mais de 1 país, mesmo que este apresente freqüência baixa, é o caso de Fitomedicamentos em que o estudo considerou 5 países, sendo o primeiro Japão com 215 artigos, em que todos os autores publicam 2 artigos, e a Alemanha, último país deste *ranking*, com 50 publicações sendo todos de autoria distinta. Neste caso, o *top* autor aparece na Inglaterra, que conta com 53 publicações ao todo em fitomedicamentos, porém o principal autor é Ernst, E, com 19 artigos.

Para aqueles casos em que Temas e Termos não apresentaram nenhuma representatividade, ou seja, baixas freqüências, foram considerados todos os países e conseqüentemente depositantes de patentes e autores de artigos.

Volume III
Artigos: Autores e Países

Este volume identifica por temas e/ou termos os países e autores com maior frequência que foram objetos de tratamento para obtenção dos autores mais significativos apresentados no Volume I Parte B.

1. Tema: Biodiversidade/Bioprospecção

Foram identificados 3.354 artigos focados no tema Biodiversidade / Bioprospecção, sendo que apenas cinco países se destacam com autores com mais de 1 artigo: Estados Unidos, Inglaterra, Austrália, França e Canadá.

Por país, são apresentadas a seguir as seguintes informações: autor de correspondência, autor (ou rede de autores) e título dos artigos:

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 3 artigos)	NAEEM, S	Naeem, S;	Ecosystem consequences of biodiversity loss: The evolution of a paradigm;
			Biodiversity: Biodiversity equals instability?;
			Continuing debate in the face of biodiversity loss
		Naeem, S Li, SB;	A more reliable design for biodiversity study? reply;
			Biodiversity enhances ecosystem reliability;
		Naeem, S Hahn, DR Schuurman, G;	Producer-decomposer co-dependency influences biodiversity effects;
		Naeem, S Kawabata, Z Loreau, M;	Transcending boundaries in biodiversity research;
	Naeem, S Wright, JP	Disentangling biodiversity effects on ecosystem functioning: deriving solutions to a seemingly insurmountable problem;	
	Sarkar, S	Sarkar, S;	Wilderness preservation and biodiversity conservation - keeping divergent goals distinct
			Defining 'biodiversity': Assessing biodiversity;
		Kelley, C Garson, J Aggarwal, A Sarkar, S;	Place prioritization for biodiversity reserve network design: a comparison of the SITES and ResNet software packages for coverage and efficiency;
		Sarkar, S Margules, C;	Operationalizing biodiversity for conservation planning;
		Sarkar, S Pappas, C Garson, J Aggarwal, A Cameron, S;	Place prioritization for biodiversity conservation using probabilistic surrogate distribution data;
		Sarkar, S Aggarwal, A Garson, J Margules, CR Zeidler, J;	Place prioritization for biodiversity content
		Garson, J Aggarwal, A Sarkar, S;	Birds as surrogates for biodiversity: an analysis of a data set from southern Quebec;

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 3 artigos)	Sarkar, S	Justus, J Sarkar, S	The principle of complementarity in the design of reserve networks to conserve biodiversity: a preliminary history;
	TILMAN, D	TILMAN, D;	Causes, consequences and ethics of biodiversity;
			Competition and biodiversity in spatially structured habitats ;
			The ecological consequences of changes in biodiversity: A search for general principles;
			Community invasibility, recruitment limitation, and grassland biodiversity;
			Biodiversity: Population versus ecosystem stability;
		TILMAN, D DOWNING, JA;	Biodiversity and stability in Grasslands;
		Tilman, D Naeem, S Knops, J Reich, P Siemann, E Wedin, D Ritchie, M Lawton, J;	Biodiversity and ecosystem properties;
	Tilman, D Wedin, D Knops, J	Productivity and sustainability influenced by biodiversity in grassland ecosystems	
	Pimentel, D	Pimentel, D;	Pricing biodiversity and ecosystem services;
			Ecoagriculture: strategies to feed the world and save wild biodiversity;
			Making nature, shaping culture: Plant biodiversity in global context - Busch,L, Lacy,WB, Burkhardt,J, Hemken,D, MoragaRojel,J, Koponen,T, Silva,JD;
			Medicinal resources of the tropical forest: Biodiversity and its importance to human health - Balick,MJ, Elisabetsky,E, Laird,SA
		Pimentel, D Wilson, C McCullum, C Huang, R Dwen, P Flack, J Tran, Q Saltman, T Cliff, B	Economic and environmental benefits of biodiversity;
	Wall, DH	Wall, DH Brussaard, L Hutchings, PA Palmer, MA Snelgrove, PVR;	Soil and sediment biodiversity and ecosystem functioning;
			Wall, DH Virginia, RA;
		Wall, DH;	Biodiversity and ecosystem functioning - A special issue devoted to belowground biodiversity in soils and freshwater and marine sediments;
		Wall, DH Moore, JC;	Interactions underground - Soil biodiversity, mutualism, and ecosystem processes;

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 3 artigos)	Wall, DH	Wall, DH Palmer, MA Snelgrove, PVR	Biodiversity in critical transition zones between terrestrial, freshwater, and marine soils and sediments: Processes, linkages, and management implications
	Batabyal, AA	Batabyal, AA	Habitat conversion, information acquisition, and the conservation of biodiversity;
			An optimal stopping approach to the conservation of biodiversity;
			The economics and ecology of biodiversity decline: The forces driving global change - Swanson, TM;
			Biodiversity loss. Economic and ecological issues - Perrings, C
	Huston, MA	Huston, MA;	People and biodiversity in Africa;
			Hidden treatments in ecological experiments: Re-evaluating the ecosystem function of biodiversity;
		Huston, MA Marland, G;	Carbon management and biodiversity;
		Huston, MA Brown, JH Allen, AP Gillooly, JF	Heat and biodiversity
	Kingston, DGI	Prakash, CVS Hoch, JM Kingston, DGI;	Biodiversity conservation and drug discovery in Madagascar, part 2. Structure and stereochemistry of new cytotoxic clerodane diterpenoids from the bark of <i>Casearia lucida</i> from the Madagascar rainforest;
		Seo, Y Berger, JM Hoch, J Neddermann, KM Bursuker, I Mamber, SW Kingston, DGI;	Biodiversity conservation and drug discovery in Madagascar. Part 1. A new triterpene saponin from <i>Pittosporum viridiflorum</i> from the Madagascar rainforest;
		Kingston, DGI;	Biodiversity conservation and drug discovery in Suriname. Explorations in nature's combinatorial library;
		Kingston, DGI Abdel-Kader, M Zhou, BN Yang, SW Berger, JM van der Werff, H Miller, JS Evans, R Mittermeier, R Famolare, L Guerin-McManus, M Malone, S Nelson, R Moniz, E Wisse, JH Vyas, DM Wright, JJK Aboikonie, S	The Suriname International Cooperative Biodiversity Group program: Lessons from the first five years
	Perfecto, I	Perfecto, I Vandermeer, J Hanson, P Cartin, V;	Arthropod biodiversity loss and the transformation of a tropical agro-ecosystem;
		Perfecto, I Mas, A Dietsch, T Vandermeer, J;	Conservation of biodiversity in coffee agroecosystems: a tri-taxa comparison in southern Mexico;

País	Autor de Correspondência	Autor(es)	Título	
EUA (autores com mais de 3 artigos)	Perfecto, I	Perfecto, I Rice, RA Greenberg, R VanderVoort, ME;	Shade coffee: A disappearing refuge for biodiversity	
		PERFECTO, I SNELLING, R	Biodiversity and the transformation of a tropical agroecosystem - ants in coffee plantations ;	
	Pimm, SL	PIMM, SL RUSSELL, GJ GITTLEMAN, JL BROOKS, TM;	The future of biodiversity;	
		Pimm, SL;	Biodiversity is us;	
		Pimm, SL Raven, P;	Biodiversity - Extinction by numbers;	
		Pimm, SL Lawton, JH	Ecology - Planning for biodiversity	
	WILSON, EO	WILSON, EO	A global biodiversity map;	
			Biodiversity in the information age;	
			On global biodiversity estimates;	
			Biodiversity - challenge, science, opportunity	
Inglaterra (autores com mais de 2 artigos)	GASTON, KJ	GASTON, KJ	Biodiversity - Loss;	
			Global patterns in biodiversity;	
			Biodiversity - Latitudinal gradients;	
			Ecology - The how and why of biodiversity;	
			Biodiversity: higher taxon richness;	
			Biodiversity - Measurement;	
			World Atlas of biodiversity: Earth's living resources in the 21st century;	
			Biodiversity - the road to an atlas;	
	Biodiversity - Congruence			
	Gaston, KJ Blackburn, TM	Gaston, KJ Blackburn, TM Goldewijk, KK	GASTON, KJ WILLIAMS, PH EGGLETON, P HUMPHRIES, CJ	Mapping biodiversity using surrogates for species richness: Macro-scales and New World birds
				Habitat conversion and global avian biodiversity loss
				Large-scale patterns of biodiversity - spatial variation in family richness
	MacArthur, J	MacArthur, J		Biodiversity and landscapes: A paradox of humanity - Kim,KC, Weaver,RD;
The economics and ecology of biodiversity decline - The forces driving global change - Swanson,TM;				
Biodiversity, conservation and sustainable development;				
The economic value of biodiversity - Pearce,D, Moran,D				
Inglaterra (autores com	Swanson, T	Swanson, T	Introduction to property rights and biodiversity conservation: Convergence or conflict?;	

País	Autor de Correspondência	Autor(es)	Título
mais de 2 artigos)			What is the public interest in biodiversity conservation for agriculture?;
			Why is there a biodiversity convention? The international interest in centralized development planning;
			The reliance of northern economies on southern biodiversity: Biodiversity as information
	Dickens, V	Dickens, V	Integrating biodiversity into environmental management systems.;
			Government response to the UK Round Table on Sustainable Development report 'Integrating biodiversity into environmental management systems'.;
			Business and biodiversity: a UK business guide for understanding and integrating nature conservation and biodiversity into environmental management systems.
	MYERS, N	MYERS, N	Two key challenges for biodiversity: Discontinuities and synergisms;
			Environmental services of biodiversity
			Reassessing threats to biodiversity - reply ;
Austrália (autores com mais de 1 artigo)	FAITH, DP	Faith, DP Walker, PA;	The role of trade-offs in biodiversity conservation planning: linking local management, regional planning and global conservation efforts
			Integrating conservation and development: Incorporating vulnerability into biodiversity-assessment of areas;
			Integrating conservation and development: Effective trade-offs between biodiversity and cost in the selection of protected areas;
			Environmental diversity: On the best-possible use of surrogate data for assessing the relative biodiversity of sets of areas;
	FAITH, DP		Biodiversity, biospecifics, and ecological services;
			Environmental diversity (ED) as surrogate information for species-level biodiversity;
			Quantifying biodiversity: a phylogenetic perspective;
Austrália (autores com mais de 1 artigo)	Austin, MP	Austin, MP	An ecological perspective on biodiversity investigations: Examples from Australian eucalypt forests;
			The potential contribution of vegetation ecology to biodiversity research

País	Autor de Correspondência	Autor(es)	Título	
	Bowman, DMJS	Bowman, DMJS	Death of biodiversity - the urgent need for global ecology;	
			Future eating and country keeping: what role has environmental history in the management of biodiversity?	
	Lee, MSY	Lee, MSY	Documenting biodiversity: the need for species identifications - Reply;	
	Lee, MSY	Lee, MSY	Documenting present and past biodiversity: Conservation biology meets palaeontology	
	TACCONI, L	TACCONI, L BENNETT, J	Economic-implications of intergenerational equity for biodiversity conservation ;	
			Biodiversity conservation - the process of economic-assessment and establishment of a protected area in Vanuatu	
	Timms, BV	Timms, BV	A study of the Werewilka Inlet of the saline Lake Wyara, Australia - a harbour of biodiversity for a sea of simplicity;	
			Limnology of the intermittent pools of Bells Creek, Paroo, arid Australia, with special reference to biodiversity of invertebrates and succession	
	França (autores com mais de 1 artigo)	Loreau, M	Loreau, M;	Separating sampling and other effects in biodiversity experiments;
				Biodiversity and ecosystem functioning: A mechanistic model;
Biodiversity and ecosystem functioning: recent theoretical advances;				
Biodiversity and ecosystem functioning: Towards a new ecological synthesis;				
Loreau, M		Yachi, S Loreau, M;	Biodiversity and ecosystem productivity in a fluctuating environment: The insurance hypothesis;	
		Loreau, M Olivieri, I;	Diversitas: an international programme of biodiversity science;	
		Loreau, M Naeem, S Inchausti, P Bengtsson, J Grime, JP Hector, A Hooper, DU Huston, MA Raffaelli, D Schmid, B Tilman, D Wardle, DA;	Ecology - Biodiversity and ecosystem functioning: Current knowledge and future challenges;	
Loreau, M		Loreau, M Hector, A;	Partitioning selection and complementarity in biodiversity experiments;	
		Loreau, M Mouquet, N Gonzalez, A	Biodiversity as spatial insurance in heterogeneous landscapes	
Medail, F		Medail, F Quezel, P;	Biodiversity hotspots in the Mediterranean basin: Setting global conservation priorities;	

País	Autor de Correspondência	Autor(es)	Título
			Hot-spots analysis for conservation of plant biodiversity in the Mediterranean basin
		Medail, F;	Biodiversity hot spots: A tool for conservation;
		Medail, F Verlaque, R	Ecological characteristics and rarity of endemic plants from southeast France and Corsica: Implications for biodiversity conservation;
França (autores com mais de 1 artigo)	ALARD, D	Alard, D Poudevigne, I Dutoit, T Decaens, T;	Dynamics of biodiversity in a changing space - The case of chalk grasslands in the lower section of the Seine Valley;
		Chabrierie, O Poudevigne, I Bureau, F Vincelas-Akpa, M Nebbache, S Aubert, M Bourcier, A Alard, D;	Biodiversity and ecosystem functions in wetlands: A case study in the estuary of the Seine river, France;
		ALARD, D BANCE, JF FRILEUX, PN	Grassland vegetation as an indicator of the main agroecological factors in a rural landscape - consequences for biodiversity and wildlife conservation in central normandy (France)
	Grevilliot, F	Grevilliot, F Muller, S;	Grassland ecotopes of the upper Meuse as references for habitats and biodiversity restoration: A synthesis;
			Study of the impact of the modification of agricultural practices on vegetal biodiversity in the flood plain meadows of the Meuse: methods and first results
		Grevilliot, F Krebs, L Muller, S	Comparative importance and interference of hydrological conditions and soil nutrient gradients in floristic biodiversity in flood meadows;
	Araujo, MB	Araujo, MB	The coincidence of people and biodiversity in Europe;
			Biodiversity hotspots and zones of ecological transition
	BARBAULT, R	BARBAULT, R	Biodiversity: Stakes and opportunities;
			Biodiversity dynamics - from population and community ecology approaches to a landscape ecology point-of-view
	Blaise, S	Blaise, S;	Intraspecific biodiversity in meadows. Introduction;
		Blaise, S Cartier, D Briane, JP Fiasson, JL Muller, S Lacoste, A	Intraspecific biodiversity in meadows .3. Chorological and ecological vicarious species from the east of France and general conclusions
	França (autores com	Boucher, G	Boucher, G;

País	Autor de Correspondência	Autor(es)	Título
mais de 1 artigo)		Boucher, G Lamshead, PJD	Ecological biodiversity of marine nematodes in samples from temperate, tropical, and deep sea regions;
	Burel, F	Burel, F Baudry, J Butet, A Clergeau, P Delettre, Y Le Coeur, D Dubs, F Morvan, N Paillat, G Petit, S Thenail, C Brunel, E Lefeuvre, JC;	Comparative biodiversity along a gradient of agricultural landscapes
		Burel, F Baudry, J	Species biodiversity in changing agricultural landscapes: A case study in the Pays d'Auge, France;
	Danelian, T	Danelian, T Popov, L;	Ordovician radiolarian biodiversity : insights based on new and revised data from Kazakhstan;
		Danelian, T Floyd, JD	Progress in describing Ordovician siliceous biodiversity from the Southern Uplands (Scotland, UK)
	Joly, PB	Joly, PB	The economic value of biodiversity - Pearce,D, Moran,D;
			Paradise lost the ecological economics of biodiversity - Barbier,EB, Burgess,JC, Folke,C
	Mouchacca, J	Mouchacca, J	Thermophilic fungi: Biodiversity and taxonomic status.;
			A selection of bibliography on the biodiversity and phytopathology of African fungi (-1994)
	Muller, S	Muller, S	Introductory report to the symposium "Biodiversity and Grassland Management": determinism and evolution of biodiversity in grassland ecosystems;
			Appropriate agricultural management practices required to ensure conservation and biodiversity of environmentally sensitive grassland sites designated under Natura 2000
	Neraudeau, D	Neraudeau, D Goubert, E Lacour, D Rouchy, JM;	Changing biodiversity of Mediterranean irregular echinoids from the Messinian to the Present-Day;
		Neraudeau, D Thierry, J Moreau, P	Variation in echinoid biodiversity during the Cenomanian early Turonian transgressive episode in Charentes (France)
Paris, F	Bourahrouh, A Paris, F Elaouad-Debbaj, Z;	Biostratigraphy, biodiversity and palaeoenvironments of the chitinozoans and associated palynomorphs from the Upper Ordovician of the Central Anti-Atlas, Morocco;	
França (autores com mais de	Paris, F	Jaglin, JC Paris, F	Biostratigraphy, biodiversity and palaeogeography of late Silurian chitinozoans from AI-61 borehole (north-western Libya)

País	Autor de Correspondência	Autor(es)	Título
1 artigo)	Pinton, F	Pinton, F	Conservation of biodiversity as a European directive: The challenge for France;
			Traditional knowledge and areas of biodiversity in Brazilian Amazonia
	Poudevigne, I	Poudevigne, I Baudry, J;	The implication of past and present landscape patterns for biodiversity research: introduction and overview;
		Ernault, A Bureau, F Poudevigne, I	Patterns of organisation in changing landscapes: implications for the management of biodiversity
	Taberlet, P	Taberlet, P;	Biodiversity at the intraspecific level: The comparative phylogeographic approach;
		Taberlet, P Cheddadi, R	Quaternary refugia and persistence of biodiversity
Canadá (autores com mais de 1 artigo)	Bunnell, FL	Bunnell, FL Dunsworth, BG;	Making adaptive management for biodiversity work - the example of Weyerhaeuser in coastal British Columbia;
		Bunnell, FL Huggard, DJ;	Biodiversity across spatial and temporal scales: problems and opportunities;
		Bunnell, FL	Managing forests to sustain biodiversity: Substituting accomplishment for motion
	Ellis, DV	Ellis, DV;	Rocky shore intertidal zonation as a means of monitoring and assessing shoreline biodiversity recovery;
			The concept of "sustainable ecological succession"; and its value in assessing the recovery of sediment seabed biodiversity from environmental impact;
		Ellis, DV Macdonald, VI	Rapid preliminary assessment of seabed biodiversity for the marine and coastal mining industries
	Morris, DW	Morris, DW Heidinga, L;	Balancing the books on biodiversity;
		Morris, DW Kingston, SR;	Predicting future threats to biodiversity from habitat selection by humans
		Morris, DW	Science and the conservation of biodiversity;
	Snelgrove, PVR	Snelgrove, PVR;	Getting to the bottom of marine biodiversity: Sedimentary habitats - Ocean bottoms are the most widespread habitat on Earth and support high biodiversity and key ecosystem services;
	Snelgrove, PVR	Snelgrove, PVR;	The biodiversity of macrofaunal organisms in marine sediments

País	Autor de Correspondência	Autor(es)	Título
		Snelgrove, PVR Austen, MC Boucher, G Heip, C Hutchings, PA King, GM Koike, I Lambshead, PJD Smith, CR	Linking biodiversity above and below the marine sediment-water interface;
Canadá (autores com mais de 1 artigo)	Behan-Pelletier, VM	Behan-Pelletier, VM	Oribatid mite biodiversity in agroecosystems: role for bioindication;
			Acari and Collembola biodiversity in Canadian agricultural soils
	Fox, CA	Fox, CA Topp, E Mermut, A Simard, R;	Soil biodiversity in Canadian agroecosystems - Foreword;
		Fox, CA MacDonald, KB	Challenges related to soil biodiversity research in agroecosystems - Issues within the context of scale of observation
	Howlett, M	Howlett, M	Biodiversity and democracy: Rethinking society and nature;
			Biodiversity in Canada: Ecology, ideas and action
	Kimmins, JP	Kimmins, JP	Biodiversity, beauty and the "beast": Are beautiful forests sustainable, are sustainable forests beautiful, and is "small" always ecologically desirable?;
			Biodiversity and its relationship to ecosystem health and integrity (Reprinted from Policy Options, November 1996)
	Lautenschlager, RA	Lautenschlager, RA	Thinking in wholes - the need for inclusive terms like "biodiversity" - Response;
			Biodiversity is dead
	Maciver, DC	Maciver, DC;	Atmospheric change and biodiversity;
		Maciver, DC Urquizo, N	Atmospheric change and biodiversity: Co-networks and networking
	Muller, FG	Muller, FG;	Does the convention on biodiversity safeguard biological diversity?;
		Muller, FG Tisdell, C	Biodiversity, conservation and sustainable development. Principles and practices with Asian examples (vol 34, pg 156, 2000)
Sinclair, ARE	Sinclair, ARE Mduma, SAR Arcese, P;	Protected areas as biodiversity benchmarks for human impact: agriculture and the Serengeti avifauna;	
	SINCLAIR, ARE HIK, DS SCHMITZ, OJ SCUDDER, GGE TURPIN, DH LARTER, NC	Biodiversity and the need for habitat renewal	

País	Autor de Correspondência	Autor(es)	Título
Canadá (autores com mais de 1 artigo)	Snelgrove, P	Snelgrove, P Blackburn, TH Hutchings, PA Alongi, DM Grassle, JF Hummel, H King, G Koike, I Lambshead, PJD Ramsing, NB Solis-Weiss, V;	The importance of marine sediment biodiversity in ecosystem processes;
		Snelgrove, P	Why care about marine biodiversity?
	Sturz, AV	Sturz, AV Ryan, DAJ Coffin, AD Matheson, BG Arsenault, WJ Kimpinski, J Christie, BR;	Stimulating disease suppression in soils: sulphate fertilizers can increase biodiversity and antibiosis ability of root zone bacteria against <i>Streptomyces scabies</i> ;
	Sturz, AV	Sturz, AV Christie, BR Matheson, BG Nowak, J	Biodiversity of endophytic bacteria which colonize red clover nodules, roots, stems and foliage and their influence on host growth
	Trevors, JT	Trevors, JT	Biodiversity and environmental pollution;
			Bacterial biodiversity in soil with an emphasis on chemically-contaminated soils
	Vujanovic, V	Vujanovic, V Brisson, J	Microfungal biodiversity of <i>Fagus grandifolia</i> in an ancient forest: bioindicators and mycosociological structure;
			Microfungal biodiversity on <i>Fagus grandifolia</i> in an old-growth forest of Eastern North-America
	Work, TT	Work, TT Spence, JR Volney, WJA Morgantini, LE Innes, JL;	Integrating biodiversity and forestry practices in western Canada;
			Work, TT Buddle, CM Korinus, LM Spence, JR

Para a indexação das Áreas de Conhecimento do CNPq, foram considerados apenas os autores mais representativos da amostra, neste caso Gastón, K. com 12 artigos, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
EUA	840	-
Inglaterra	324	GASTON, KJ
Austrália	185	-
França	180	-
Canadá	127	-

TERMOS

Quanto aos termos sugeridos (pelos especialistas) sobre esse tema, a tabela a seguir mostra o número de artigos localizados para cada termo, destacando-se fitomedicamentos.

TEMAS	TERMOS	Nº artigos focados
Biodiversidade/Bioprospecção	Bancos de germoplasma	42
	Herbários e demais formas de conservação ex situ	182
	Legislação ágil e eficiente	4
	Biodiversidade marinha	123
	Acesso ao patrimônio genético	9
	Conhecimento tradicional	2
	Mercado de produtos da floresta	5
	Propriedade intelectual	12
	Fitomedicamentos	1011

1.1 Bancos de Germoplasma

No termo “Bancos de germoplasma”, nenhum país apresentou número de artigos significativo. Os quatro países com mais de três publicações são Espanha, **Brasil**, Alemanha e Hungria, sendo que apenas Espanha e Alemanha têm autores com mais de um artigo, que reforça a dispersão. O título e autores destes artigos, por país, são apresentados a seguir:

País	Autor de Correspondência	Autor(es)	Título
Espanha	Belaj, A	Belaj, A Caballero, JM Barranco, D Rallo, L Trujillo, I;	Genetic characterization and identification of new accessions from Syria in an olive germplasm bank by means of RAPD markers;
		Belaj, A Trujillo, I de la Rosa, R Rallo, L Gimenez, MJ	Polymorphism and discrimination capacity of randomly amplified polymorphic markers in an olive germplasm bank
	Ortiz, JM	Ortiz, JM Martin, JP Borrego, J Chavez, J Rodriguez, I Munoz, G Cabello, F	Molecular and morphological characterization of a Vitis gene bank for the establishment of a base collection
	Royo, JB	Itoiz, R Royo, JB	Isoenzymatic variability in an apple germplasm bank
Brasil	Guerra, M	Guerra, M Pedrosa, A Silva, AEB Cornelio, MTM Santos, K Soares, WD	Chromosome number and secondary constriction variation in 51 accessions of a citrus germplasm bank
	Montarroyos, AVV	Montarroyos, AVV de Lima, MAG dos Santos, EO de Franca, JGE	Isozyme analysis of an active cassava germplasm bank collection
	Shimoya, A	Shimoya, A Cruz, CD Ferreira, RD Vander Pereira, A Carneiro, PCS	Genetic divergence among accessions of a germplasm bank of elephantgrass

País	Autor de Correspondência	Autor(es)	Título
Alemanha	Soyka, M	Soyka, M Preuss, UW Koller, G Zill, P Hesselbrock, V Bondy, B;	No association of CRH1 receptor polymorphism haplotypes, harm avoidance and other personality dimensions in alcohol dependence: results from the Munich gene bank project for alcoholism;
		Soyka, M Preuss, UW Koller, G Zill, P Bondy, B	Dopamine D 4 receptor gene polymorphism and extraversion revisited: results from the Munich gene bank project for alcoholism
	Daniel, R	Knietsch, A Waschowitz, T Bowien, S Henne, A Daniel, R	Construction and screening of metagenomic libraries derived from enrichment cultures: Generation of a gene bank for genes conferring alcohol oxidoreductase activity on Escherichia coli
Hungria	CSIZMADIA, C	CSIZMADIA, C JENEY, Z SZERENCSES, I GORDA, S	Transferrin polymorphism of some races in a live gene bank of common carp
	GORDA, S	GORDA, S BAKOS, J LISKA, J KAKUK, C	Live gene bank of common carp strains at the fish-culture-research-institute, szarvas
	Laszlo, H	Laszlo, H Laszlo, H Laszlo, B	Significance of the plant gene pool in Hungary: I. Development and utilisation or the plant gene bank collection

Para a indexação das Áreas de Conhecimento da do CNPq, foram considerados apenas os autores mais representativos da amostra, neste caso Belaj, A. e Soyka, M., com 2 artigos cada, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
Espanha	4	Belaj, A
Brasil	3	-
Alemanha	3	Soyka, M
Hungria	3	-

1.2 Herbários e demais formas de conservação ex situ

Neste termo, nove países apresentaram mais de cinco publicações: Estados Unidos, Inglaterra, Espanha, Canadá, Alemanha, Bélgica, Índia, África do Sul e **Brasil**. O título e autores destes artigos, por país, são apresentados a seguir:

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 1 artigo)	Holmgren, PK	Holmgren, PK Holmgren, NH;	Additions to index Herbariorum (Herbaria), edition 8 - Tenth series;
			Additions to index herbariorum (Herbaria), edition 8 - Ninth series;
			Additions to index Herbariorum (Herbaria), edition 8 - Seventh series;
			Additions to Index Herbariorum (Herbaria), Edition 8 - Sixth series
	Borchert, R	Rivera, G Borchert, R;	Induction of flowering in tropical trees by a 30-min reduction in photoperiod: evidence from field observations and herbarium specimens;
			Borchert, R
	Lendemer, JC	Lendemer, JC Hewitt, DA;	A catalogue of the type specimens of lichens in the Herbarium of The Academy of Natural Sciences of Philadelphia;
		Lendemer, JC Macklin, JA	Type specimens of pandanaceae in the herbarium of the Academy of Natural Sciences of Philadelphia
	Zanoni, TA	Zanoni, TA	The Herbarium of Paul A Fryxell (pf) and US Department of Agriculture, College Station, Texas, integrated into The New York Botanical Garden Herbarium (NY);
		ZANONI, TA WHALEN, EA;	A BRIEF-HISTORY OF THE WELLESLEY-COLLEGE-HERBARIUM (WELC) AND A LIST OF ITS TYPE SPECIMENS OF VASCULAR PLANTS NOW DEPOSITED AT THE NEW-YORK-BOTANICAL-GARDEN HERBARIUM (NY)
Inglaterra	Davies, R	Davies, R	Herbaria, collections, and collectors;
			Herbaria, collectors, and collections
	Balmford, A	Balmford, A Mace, G LeaderWilliams, N	Priority-setting for ex situ conservation
	Clayton, LM	Clayton, LM Milner-Gulland, EJ Sinaga, DW Mustari, AH	Effects of a proposed ex situ conservation program on in situ conservation of the Babirusa, an endangered suid

País	Autor de Correspondência	Autor(es)	Título
	Cochrane, V	Cochrane, V Press, MC	Geographical distribution and aspects of the ecology of the hemiparasitic angiosperm <i>Striga asiatica</i> (L) Kuntze: A herbarium study
	FURNESS, CA	FURNESS, CA	Examination of the ultrastructure and function of caveate acanthaceae pollen, using rehydrated herbarium material
	Jarvis, CE	Jarvis, CE Majorov, SR Sokoloff, DD Balandin, SA Gubanov, IA Simonov, SS	The typification of <i>Astragalus physodes</i> L., based on material in the Herbarium of Moscow University (MW), and the discovery of an isolectotype of <i>Phlox sibirica</i> L.
	Lawrence, MJ	Lawrence, MJ	A comprehensive collection and regeneration strategy for ex situ conservation
	Moat, J	Willis, F Moat, J Paton, A	Defining a role for herbarium data in Red List assessments: a case study of <i>Plectranthus</i> from eastern and southern tropical Africa
	Moore, H	Moore, H	William Turner's 'Libellus de re herbaria novus'
	Smith, D	Smith, D	The use of cryopreservation in the ex-situ conservation of fungi
Espanha	Ramos, AJ	Abellana, M Magri, X Sanchis, V Ramos, AJ;	Water activity and temperature effects on growth of <i>Eurotium amstelodami</i> , <i>E-chevalieri</i> and <i>E-herbariorum</i> on a sponge cake analogue;
		Abellana, M Benedi, J Sanchis, V Ramos, AJ;	Water activity and temperature effects on germination and growth of <i>Eurotium amstelodami</i> , <i>E-chevalieri</i> and <i>E. herbariorum</i> isolates from bakery products;
		Abellana, M Ramos, AJ Sanchis, V Nielsen, PV	Effect of modified atmosphere packaging and water activity on growth of <i>Eurotium amstelodami</i> , <i>E-chevalieri</i> and <i>E-herbariorum</i> on a sponge cake analogue
	Azami, N	Azami, N Serina, E Arroyo, R	The <i>Usnea</i> species of Morocco in R.-G. Werner's herbarium
	Carrasco, MA	Carrasco, MA Garcia, A Perea, D MartinBlanco, CJ	Herbarium of M. P. Graells (1809-1898) discovered in the Real Colegio Alfonso XII of San Lorenzo de El Escorial, Madrid, Spain
	Caujape-Castells, J	Caujape-Castells, J Pedrola-Monfort, J	Designing ex-situ conservation strategies through the assessment of neutral genetic markers: Application to the endangered <i>Androcymbium gramineum</i>
	Cubero, OF	Cubero, OF Crespo, A Fatehi, J Bridge, PD	DNA extraction and PCR amplification method suitable for fresh, herbarium-stored, lichenized, and other fungi
	de Caleyá, PBF	de Caleyá, PBF Mulero, MAPS	Some types and other notable specimens of Hans West (1758-1811) in the Sesse and Mocino Herbarium of the Royal Botanical Expedition to New Spain(1786-1804)
	Moreno, G	Moreno, G Kreisel, H Altes, A	Notes on the genus <i>Tulostoma</i> in H. Kreisel's Herbarium

País	Autor de Correspondência	Autor(es)	Título
	Penuelas, J	Penuelas, J Filella, I	Herbaria century record of increasing eutrophication in Spanish terrestrial ecosystems
	Touwaide, A	Touwaide, A	Images of plants in old books on herbs - Umbellifera and herbarii of the early modern era
	VALENTIN, N	VALENTIN, N	Comparative-analysis of insect control by nitrogen, argon and carbon-dioxide in museum, archive and herbarium collections
Canadá	Emilsson, W	Emilsson, W	Herbarium of Souls'
	Inderbitzin, P	Inderbitzin, P Lim, SR Volkman-Kohlmeier, B Kohlmeier, J Berbee, ML	The phylogenetic position of Spathulospora based on DNA sequences from dried herbarium material
	Lavoie, C	Delisle, F Lavoie, C Jean, M Lachance, D	Reconstructing the spread of invasive plants: taking into account biases associated with herbarium specimens
	Loo, JA	MacDougall, AS Loo, JA Clayden, SR Goltz, JG Hinds, HR	Defining conservation priorities for plant taxa in southeastern New Brunswick, Canada using herbarium records
	Mcllwrick, K	Mcllwrick, K Wetzel, S Beardmore, T Forbes, K	Ex situ conservation of American chestnut (<i>Castanea dentata</i> (Marsh.) Borkh.) and butternut (<i>Juglans cinerea</i> L.), a review
	McMahon, S	McMahon, S	Libellus de re herbaria novus (1538)
	Parmelee, JA	Parmelee, JA	A catalogue of types (Uredinales) in the National Mycological Herbarium (DAOM) Ottawa, Canada
	Shchepanek, MJ	Shchepanek, MJ	A protective hardboard folder for storing herbarium specimens
	SIGLER, L	SIGLER, L	Maintaining fungal diversity - integration of a herbarium and living collection
	SPARKE, M	SPARKE, M	Escaping the herbarium - a critique of olsson,gunnar chiasm of thought-and-action
	Untereiner, WA	Untereiner, WA	Unearthing a 19(th) century mycological treasure: discovery of the first edition of Fries's <i>Scleromyceti Sueciae</i> in the Schweinitz Herbarium at PH
Alemanha	Braun, U	Braun, U Melnik, VA	An annotated list of <i>Cercospora</i> type samples deposited in the herbarium of All-Russian Institute for Plant Protection (LEP)
	GREISSL, R	GREISSL, R HORN, A VOGELEI, A	A modified thermal-convection drying technique for herbarium preservation

País	Autor de Correspondência	Autor(es)	Título
	Herpin, U	Herpin, U Markert, B Weckert, V Berlekamp, J Friese, K Siewers, U Lieth, H	Retrospective analysis of heavy metal concentrations at selected locations in the Federal Republic of Germany using moss material from a herbarium
	Hofmann, M	Hofmann, M Hilger, HH Frey, W	Preparation of bryophyte herbarium specimens for the SEM using Aerosol OT solution in combination with FDA rapid dehydration
	Lack, HW	Lack, HW	The Sibthorpien Herbarium at Oxford - Guidelines for its use
	Otte, V	Otte, V	On C. G. Mosig's lichen herbarium, with emphasis on type material of lichens and fungi
	Sauer, H	Sauer, H	William Turner, 'Libellus De Re Herbaria Novus' (1538)
	Stadler, J	Stadler, J Mungai, G Brandl, R	Weed invasion in East Africa: insights from herbarium records
Bélgica	Boerjan, W	Storme, V Vanden Broeck, A Ivens, B Halfmaerten, D Van Slycken, J Castiglione, S Grassi, F Fossati, T Cottrell, JE Tabbener, HE Lefevre, F Saintagne, C Fluch, S Krystufek, V Burg, K Bordacs, S Borovics, A Gebhardt, K Vornam, B Pohl, A Alba, N Agundez, D Maestro, C Notivol, E Bovenschen, J van Dam, BC van der Schoot, J Vosman, B Boerjan, W Smulders, MJM	Ex-situ conservation of Black poplar in Europe: genetic diversity in nine gene bank collections and their value for nature development
	Cocquyt, C	Cocquyt, C De Wever, A	Epiphytic diatom communities on herbarium material from Lake Naivasha and Lake Sonachi, Eastern Rift Valley, Kenya
	DeClerck, O	DeClerck, O Coppejans, E	The genus Dictyota (Dictyotaceae, Phaeophyta) from Indonesia in the herbarium Weber-van Bosse, including the description of Dictyota canaliculata spec. nov.
	Degreef, J	Degreef, J Rocha, OJ Vanderborght, T Baudoin, JP	Soil seed bank and seed dormancy in wild populations of lima bean (Fabaceae): Considerations for in situ and ex situ conservation
	Guillitte, O	Guillitte, O	The Paul Heinemann mycological herbarium, an exceptional patrimony to valorize.
	Phartyal, SS	Phartyal, SS Thapliyal, RC Koedam, N Godefroid, S	Ex situ conservation of rare and valuable forest tree species through seed-gene bank
	Schols, P	Schols, P Es, K D'hondt, C Merckx, V Smets, E Huysmans, S	A new enzyme-based method for the treatment of fragile pollen grains collected from herbarium material

País	Autor de Correspondência	Autor(es)	Título
Índia	HOSAGOUDAR, VB	HOSAGOUDAR, VB SARBHOY, AK AGARWAL, DK KHAN, MK	Meliolaceae exsiccatae in herbarium-cryptogamae-indiae-orientalis
	Jasrai, YT	Jasrai, YT Wala, BB Singh, HS Desai, BS	A computer-based complementary technique for plant herbaria
	MeherHomji, VM	MeherHomji, VM	Uses of herbaria
	Rao, RR	Rao, RR	Are herbaria redundant?
	Singh, RK	Singh, RK Jain, SK Singh, AK	Seed storage of African marigold (<i>Tagetes erecta</i> L.) for ex-situ conservation
	Torne, SG	Torne, SG	Importance of herbaria and taxonomists
África do Sul	Smith, GF	Steenkamp, Y Smith, GF;	Needs of users of botanical information in South Africa: outcomes of a national workshop for the stakeholders and end- users of botanical information and herbaria;
África do Sul	Smith, GF	Smith, GF Steenkamp, Y Klopper, RR Siebert, SJ Arnold, TH	The price of collecting life - Overcoming the challenges involved in computerizing herbarium specimens.
	Balkwill, K	Balkwill, K Phillipson, PB	Priorities for the development of herbaria in southern Africa
	Golding, JS	Golding, JS	Southern African herbaria and Red Data Lists
	RETIEF, E	RETIEF, E NICHOLAS, A BAIJNATH, H	The psocid liposcelis-bostrychophilus badonnel (psocoptera, liposcelidae) - an occasional herbarium pest
Brasil	Baldini, RM	Goldenberg, R Baldini, RM	Melastomataceae Raddiana: a study of G. Raddi's Melastomataceae types housed in the herbaria of Pisa (PI) and Firenze (FI)
	Filgueiras, TS	Filgueiras, TS Davidse, G Kirkbride, JH Chiang, F Rueda, R Zuloaga, FO	Should small herbaria have voting rights?
	Gusmao, LFP	Gusmao, LFP Baseia, IG	A list of type specimens of microfungi described by P. Hennings held at the Herbarium of Institute de Botanica (SP)
	Holmgren, PK	Holmgren, PK Holmgren, NH	Additions to Index Herbariorum (Herbaria), Edition 8 - Eleventh series
	Junior, JFD	Junior, JFD Bezerra, JEF Lederman, IE Alves, MA Neto, MLD	Collecting, ex situ conservation and characterization of "caja-umbu" (<i>Spondias mombin</i> x <i>Spondias tuberosa</i>) germplasm in Pernambuco State, Brazil

Para a indexação das Áreas de Conhecimento da do CNPq, foi considerado apenas o autor mais representativo da amostra, neste caso Holmgren, P., com 5 artigos, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	47	Holmgren, PK
Inglaterra	12	-
Espanha	12	-
Canadá	11	-
Alemanha	8	-
Bélgica	7	-
Índia	6	-
África do Sul	5	-
Brasil	5	-

1.3 Legislação

Este termo aparece como objeto de publicação de 3 países, com 4 artigos ao todo, cujos autores e títulos são apresentados a seguir:

País	Autor de Correspondência	Autor(es)	Título
China	Xue, DY	Xue, DY	The legislation, enforcement, and further needs for biodiversity conservation in China
	Xu, HG	Xu, HG Wang, SQ Xue, DY	Biodiversity conservation in China: Legislation, plans and measures
Itália	Broggio, M	Broggio, M	Agricultural innovation and biodiversity: Legislation and abuse
Índia	Anon	Anon	Brazil considers biodiversity legislation

Para a indexação das Áreas de Conhecimento da do CNPq, foram considerados apenas os autores mais representativos da amostra, neste caso Xue, DY., com 2 artigos, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
China	2	Xue, DY
Itália	1	-
Índia	1	-

1.4 Biodiversidade Marinha

No termo “Biodiversidade Marinha”, nove países apresentam mais de quatro publicações: Estados Unidos, Inglaterra, Austrália, Canadá, Itália, Costa Rica, França, Noruega e Nova Zelândia. O título e autores destes artigos, por país, são apresentados a seguir:

País	Autor de Correspondência	Autor(es)	Título
EUA	Vecchione, M	Vecchione, M Collette, BB;	Fisheries agencies and marine biodiversity;
		Vecchione, M Mickevich, WF Fauchald, K Collette, BB Williams, AB Munroe, TA Young, RE	Importance of assessing taxonomic adequacy in determining fishing effects on marine biodiversity
	Wall, DH	Wall, DH Palmer, MA Snelgrove, PVR;	Biodiversity in critical transition zones between terrestrial, freshwater, and marine soils and sediments: Processes, linkages, and management implications;
		Wall, DH	Biodiversity and ecosystem functioning - A special issue devoted to belowground biodiversity in soils and freshwater and marine sediments
	Brailovskaya, T	Brailovskaya, T	Obstacles to protecting marine biodiversity through marine wilderness preservation: Examples from the New England region
	Brownell, RL	Brownell, RL Ralls, K Perrin, WF	Marine mammal biodiversity - Three diverse orders encompass 119 species
	Budd, AF	Budd, AF Foster, CT Dawson, JP Johnson, KG	The Neogene Marine Biota of Tropical America ("NMITA") database: Accounting for biodiversity in paleontology
	Charlton, JT	Charlton, JT Butman, CA	Understanding marine biodiversity - A research agenda for the nation
	Coleman, FC	Coleman, FC Williams, SL	Overexploiting marine ecosystem engineers: potential consequences for biodiversity
	Covich, AP	Covich, AP Austen, MC Barlocher, F Chauvet, E Cardinale, BJ Biles, CL Inchausti, P Dangles, O Solan, M Gessner, MO Statzner, B Moss, B	The role of Biodiversity in the functioning of freshwater and marine benthic ecosystems
	Dean, HK	Dean, HK	Marine biodiversity of Costa Rica: The phyla Sipuncula and Echiura
	Foote, M	Foote, M	Crustacean biodiversity through the marine fossil record - Addendum
	Hastings, A	Hastings, A Botsford, LW	Comparing designs of marine reserves for fisheries and for biodiversity
	EUA	Irish, KE	Irish, KE Norse, EA

País	Autor de Correspondência	Autor(es)	Título
	Kendall, MS	Kendall, MS Christensen, JD Caldwell, C Coyne, M Jeffrey, C Monaco, ME Morrison, W Hillis-Starr, Z	The influence of bottom type and shelf position on biodiversity of tropical fish inside a recently enlarged marine reserve
	KENSLEY, B	KENSLEY, B NELSON, WG SCHOTTE, M	Marine isopod biodiversity of the indian-river lagoon, Florida
	Kidd, AH	Kidd, AH Kidd, RM	Aquarium visitors' perceptions and attitudes toward the importance of marine biodiversity
	Mikkelsen, PM	Mikkelsen, PM Cracraft, J	Marine biodiversity and the need for systematic inventories
	Murphy, DD	Murphy, DD Duffus, DA	Conservation biology and marine biodiversity
	Norse, EA	Norse, EA MathewsAmos, A	Marine biodiversity budget
	Ray, GC	Ray, GC	Coastal-marine discontinuities and synergisms: Implications for biodiversity conservation
	Roy, K	Roy, K Jablonski, D Valentine, JW	Higher taxa in biodiversity studies: Patterns from eastern Pacific marine molluscs
	Schubel, JR	Schubel, JR	Marine biodiversity: The hidden crisis
	Sepkoski, JJ	Sepkoski, JJ	Crustacean biodiversity through the marine fossil record
	Sheehan, PM	Sheehan, PM	History of marine biodiversity
	Stachowicz, JJ	Stachowicz, JJ Fried, H Osman, RW Whitlatch, RB	Biodiversity, invasion resistance, and marine ecosystem function: Reconciling pattern and process
	SUCHANEK, TH	SUCHANEK, TH	Temperate coastal marine communities - biodiversity and threats
	Wilder, RJ	Wilder, RJ Tegner, MJ Dayton, PK	Saving marine biodiversity
Inglaterra	Warwick, RM	Warwick, RM	Marine biodiversity a selection of papers presented at the conference "Marine Biodiversity: Causes and Consequences", York, UK, 30 August 2 September 1994 - Introduction
		Warwick, RM Turk, SM	Predicting climate change, effects on marine biodiversity: comparison of recent and fossil molluscan death assemblages
		Warwick, RM Clarke, KR;	Practical measures of marine biodiversity based on relatedness of species;
	Pugh, PJA	Pugh, PJA Scott, B; Pugh, PJA Dartnall, HJG Mcinnes, SJ	Biodiversity and biogeography of non-marine Mollusca on the islands of the Southern Ocean; The non-marine Crustacea of Antarctica and the Islands of the Southern Ocean: biodiversity and biogeography

País	Autor de Correspondência	Autor(es)	Título
	Austen, MC	Austen, MC Lamshead, PJD Hutchings, PA Boucher, G Snelgrove, PVR Heip, C King, G Koike, I Smith, C	Biodiversity links above and below the marine sediment-water interface that may influence community stability
	Barnes, DKA	Barnes, DKA	Biodiversity - Invasions by marine life on plastic debris
	Beaugrand, G	Beaugrand, G Reid, PC Ibanez, F Lindley, JA Edwards, M	Reorganization of North Atlantic marine copepod biodiversity and climate
	Benton, MJ	Lane, A Benton, MJ	Taxonomic level as a determinant of the shape of the phanerozoic marine biodiversity curve
	Gale, AS	Gale, AS Smith, AB Monks, NEA Young, JA Howard, A Wray, DS Huggett, JM	Marine biodiversity through the Late Cenomanian-Early Turonian: palaeoceanographic controls and sequence stratigraphic biases
	Gee, JM	Gee, JM Warwick, RM	A study of global biodiversity patterns in the marine motile fauna of hard substrata
	Lamshead, PJD	Lamshead, PJD Boucher, G	Marine nematode deep-sea biodiversity - hyperdiverse or hype?
	Price, ARG	Price, ARG	Simultaneous 'hotspots' and 'coldspots' of marine biodiversity and implications for global conservation
	Roberts, CM	Roberts, CM McClean, CJ Veron, JEN Hawkins, JP Allen, GR McAllister, DE Mittermeier, CG Schueler, FW Spalding, M Wells, F Vynne, C Werner, TB	Marine biodiversity hotspots and conservation priorities for tropical reefs
	Taylor, PD	Taylor, PD Gordon, DP	Endemic new cyclostome bryozoans from Spirits Bay, a New Zealand marine-biodiversity "hotspot"
Austrália	Baker, JT	Baker, JT Bell, JD Murphy, PT	Australian deliberations on access to its terrestrial and marine biodiversity
	Bax, N	Bax, N Williamson, A Aguero, M Gonzalez, E Geeves, W	Marine invasive alien species: a threat to global biodiversity
	Beardall, J	Beardall, J Beer, S Raven, JA	Biodiversity of marine plants in an era of climate change: Some predictions based on physiological performance
	Cappo, M	Cappo, M Speare, P De'ath, G	Comparison of baited remote underwater video stations (BRUVS) and prawn (shrimp) trawls for assessments of fish biodiversity in inter-reefal areas of the Great Barrier Reef Marine Park
	DEVRIES, DJ	DEVRIES, DJ HALL, MR	Marine biodiversity as a source of chemical diversity
	Huisman, JM	Huisman, JM Cowan, RA Entwisle, TJ	Biodiversity of Australian marine macroalgae - A progress report

País	Autor de Correspondência	Autor(es)	Título
	Jones, GP	Jones, GP McCormick, MI Srinivasan, M Eagle, JV	Coral decline threatens fish biodiversity in marine reserves
	Kriwoken, LK	Kriwoken, LK	Australian biodiversity and marine protected areas
	Lewis, PN	Lewis, PN Hewitt, CL Riddle, M McMinn, A	Marine introductions in the Southern Ocean: an unrecognised hazard to biodiversity
	Phillips, JA	Phillips, JA	Marine macroalgal biodiversity hotspots: why is there high species richness and endemism in southern Australian marine benthic flora?
	Quinn, RJ	Quinn, RJ Leone, PD Guymmer, G Hooper, JNA	Australian biodiversity via its plants and marine organisms. A high-throughput screening approach to drug discovery
	Vanderklift, MA	Vanderklift, MA Ward, TJ Phillips, JC	Use of assemblages derived from different taxonomic levels to select areas for conserving marine biodiversity
Canadá	Snelgrove, PVR	Snelgrove, PVR Austen, MC Boucher, G Heip, C Hutchings, PA King, GM Koike, I Lamshead, PJD Smith, CR	Linking biodiversity above and below the marine sediment-water interface;
		Snelgrove, PVR;	Getting to the bottom of marine biodiversity: Sedimentary habitats - Ocean bottoms are the most widespread habitat on Earth and support high biodiversity and key ecosystem services
			The biodiversity of macrofaunal organisms in marine sediments;
	Snelgrove, P	Snelgrove, P	Why care about marine biodiversity?
		Snelgrove, P Blackburn, TH Hutchings, PA Alongi, DM Grassle, JF Hummel, H King, G Koike, I Lamshead, PJD Ramsing, NB Solis-Weiss, V	The importance of marine sediment biodiversity in ecosystem processes;
	Ellis, DV	Ellis, DV Macdonald, VI	Rapid preliminary assessment of seabed biodiversity for the marine and coastal mining industries
	MILEWSKI, IA	MILEWSKI, IA	Marine biodiversity shaping a policy framework
Zacharias, MA	Zacharias, MA Roff, JC	A hierarchical ecological approach to conserving marine biodiversity	
Itália	Bianchi, CN	Bianchi, CN Morri, C	Marine biodiversity of the Mediterranean Sea: Situation, problems and prospects for future research
	Cognetti, G	Cognetti, G Maltagliati, F	Strategies of genetic biodiversity conservation in the marine environment

País	Autor de Correspondência	Autor(es)	Título
	Fani, R	Michaud, L Di Cello, F Brilli, M Fani, R Lo Giudice, A Bruni, V	Biodiversity of cultivable psychrotrophic marine bacteria isolated from Terra Nova Bay (Ross Sea, Antarctica)
	Morri, C	Morri, C Bianchi, CN Cocito, S Peirano, A De Biase, AM Aliani, S Pansini, M Boyer, M Ferdegini, F Pestarino, M Dando, P	Biodiversity of marine sessile epifauna at an Aegean island subject to hydrothermal activity: Milos, eastern Mediterranean Sea
	Sponga, F	Sponga, F Cavaletti, L Lazzarini, A Borghi, A Ciciliato, I Losi, D Marinelli, F	Biodiversity and potentials of marine-derived microorganisms
	Tintori, A	Tintori, A	Fish biodiversity in the marine Norian (Late Triassic) of northern Italy: the first Neopterygian radiation
	Vadrucci, MR	Vadrucci, MR Vignes, F Fiocca, A Basset, A Santarpia, I Carrada, GC Cabrini, M Umani, SF	Space-time patterns of co-variation of biodiversity and primary production in phytoplankton guilds of coastal marine environments
Costa Rica	Vargas, R	Vargas, R Cortes, J	Costa Rican marine biodiversity: Orden Stomatopoda (Crustacea : Hoplocarida)
			Marine biodiversity of Costa Rica: Crustacea : Decapoda (Penaeoidea, Sergestoidea, Caridea, Astacidea, Thalassinidea, Palinura) from the Pacific;
			Marine biodiversity of Costa Rica: Crustacea : Decapoda (Penaeoidea, Sergestoidea, Stenopodidea, Caridea, Thalassinidea, Palinura) from the Caribbean
	Cortes, J	Cortes, J	Costa Rican marine biodiversity: Phylum Cnidaria;
			Marine biodiversity of Costa Rica: Phylum porifera [SPA].
	Morales-Ramirez, A	Morales-Ramirez, A	Costa Rica's marine biodiversity, microcrustaceans: Subclass Copepoda (Crustacea : Maxillopoda)
	Sevilla, LR	Sevilla, LR Vargas , R Cortes, J	Marine biodiversity of Costa Rica: Gastropods (Mollusca : Gastropoda) from the Caribbean coast
França	BellanSantini, D	BellanSantini, D Arnaud, PM Bellan, G Verlaque, M	The influence of the introduced tropical alga <i>Caulerpa taxifolia</i> , on the biodiversity of the Mediterranean marine biota
	Boucher, G	Boucher, G Lamshead, PJD	Ecological biodiversity of marine nematodes in samples from temperate, tropical, and deep sea regions
	Feral, JP	Feral, JP	How useful are the genetic markers in attempts to understand and manage marine biodiversity?

País	Autor de Correspondência	Autor(es)	Título
	Le Loeuff, P	Le Loeuff, P von Cosel, R	Biodiversity patterns of the marine benthic fauna on the Atlantic coast of tropical Africa in relation to hydroclimatic conditions and paleogeographic events
	Pharisat, A	Pharisat, A	Marine fish biodiversity in the Oligocene of Froidefontaine (Belfort Territory, France)
Noruega	Gray, JS	Gray, JS	Marine biodiversity: Patterns, threats and conservation needs;
			Antarctic marine benthic biodiversity in a world-wide latitudinal context
	Hoel, AH	Hoel, AH	Marine biodiversity and institutional interplay
	Olsgard, F	Olsgard, F Brattegard, T Holthe, T	Polychaetes as surrogates for marine biodiversity: lower taxonomic resolution and indicator groups
Nova Zelândia	Thrush, SF	Thrush, SF Hewitt, JE Funnell, GA Cummings, VJ Ellis, J Schultz, D Talley, D Norkko, A;	Fishing disturbance and marine biodiversity: role of habitat structure in simple soft-sediment systems;
			Fishing disturbance and marine biodiversity: the role of habitat structure in simple soft-sediment systems
		Thrush, SF Dayton, PK	Disturbance to marine benthic habitats by trawling and dredging: Implications for marine biodiversity;
	Poulin, R	Luque, JL Mouillot, D Poulin, R	Parasite biodiversity and its determinants in coastal marine teleost fishes of Brazil

Destes países, Canadá, Inglaterra, Costa Rica e Nova Zelândia se destacam com autores com três artigos, conforme tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
EUA	28	
Inglaterra	15	Warwick, RM
Austrália	12	-
Canadá	8	Snelgrove, PVR
Itália	7	-
Costa Rica	7	Vargas, R
França	5	-
Noruega	4	-
Nova Zelândia	4	Thrush, SF

1.5 Patrimônio Genético

Neste termo, apenas os Estados Unidos apresentam mais de uma publicação, sendo que um autor apresenta dois artigos, observa-se que o **Brasil** aparece com 1 autor, conforme a tabela abaixo:

País	Autor de Correspondência	Autor(es)	Título
EUA	Grajal, A;	Grajal, A;	Access regime to genetic resources imposes limitations of research in biodiversity for the Andean countries; Biodiversity and the nation state: Regulating access to genetic resources limits biodiversity research in developing countries
			Biodiversity and the nation state: Regulating access to genetic resources limits biodiversity research in developing countries
	Adair, JR	Adair, JR	The bioprospecting question: Should the United States charge biotechnology companies for the commercial use of public wild genetic resources?
	Rausser, GC	Rausser, GC Small, AA	Valuing research leads bioprospecting and the conservation of genetic resources
Índia	Hasnain, SE	Ali, S Hasnain, SE	Conservation, management and documentation of livestock genetic resources and biodiversity: A biotechnology perspective
Escócia	Moran, D	Moran, D	The commercial use of biodiversity: access to genetic resources and benefit-sharing.
Irlanda	Reid, WV	Reid, WV Laird, SA Meyer, CA Gamez, R Sittenfeld, A Janzen, DH Gollin, MA Juma, C	Appendix I: United Nations Convention on biological diversity (Reprinted from Biodiversity Prospecting: Using Genetic Resources for Sustainable Development, pg 303-324, 1993)
Eslovênia	Dovc, P	Dovc, P Susnik, S Snoj, A	Experience from Lipizzan horse and salmonid species endemic to the Adriatic river system - Examples for the application of molecular markers for preservation of biodiversity and management of animal genetic resources
Brasil	Ferreira, VF	Ferreira, VF	Biodiversity, Genetic Resources and Scientific Policy Act

Para a indexação das Áreas de Conhecimento da do CNPq, foi considerado apenas o autor mais representativo da amostra, neste caso Grajal, A., com 2 artigos, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	4	Grajal, A
Índia	1	-
Escócia	1	-
Irlanda	1	-
Eslovênia	1	-
Brasil	1	-

1.6 *Conhecimento Tradicional*

Somente dois países França e Índia, apresentam um artigo cada, sendo que o da França diz respeito à biodiversidade da Amazônia Brasileira:

País	Autor de Correspondência	Autor(es)	Título
França	Pinton, F	Pinton, F	Traditional knowledge and areas of biodiversity in Brazilian Amazonia
Índia	Gupta, AK	Gupta, AK	Rewarding creativity in conserving biodiversity in the third world: Can intellectual property rights serve the needs of contemporary and traditional knowledge experts and communities in the third world?

Para a indexação das Áreas de Conhecimento da do CNPq, foi considerado ambos os autores Gupta, AK. e Pinton, F., com 1 artigo cada, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
França	1	-
Índia	1	-

1.7 *Mercado de produtos da floresta*

Neste caso, cinco países apresentam um artigo cada, de diferentes autores: Austrália, Finlândia, Japão, Holanda e Estados Unidos.

País	Autor de Correspondência	Autor(es)	Título
Austrália	Faith, DP	Faith, DP Walker, PA Ive, JR Belbin, L	Integrating conservation and forestry production: Exploring trade-offs between biodiversity and production in regional land-use assessment
Finlândia	Niemela, J	Niemela, J Larsson, S Simberloff, D	Concluding remarks - Finding ways to integrate timber production and biodiversity in Fennoscandian forestry
Japão	Ishii, HT	Ishii, HT Tanabe, S Hiura, T	Exploring the relationships among canopy structure, stand productivity, and biodiversity of temperature forest ecosystems
Holanda	vanAndel, TR	vanAndel, TR	Biodiversity of Non-Timber Forest Products in North-West Guyana
EUA	Reich, PB	Reich, PB Bakken, P Carlson, D Frelich, LE Friedman, SK Grigal, DF	Influence of logging, fire, and forest type on biodiversity and productivity in southern boreal forests

Para a indexação das Áreas de Conhecimento da do CNPq, foi considerado todos os autores com 1 artigo cada, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
Austrália	1	-
Finlândia	1	-
Japão	1	-
Holanda	1	-
EUA	1	-

1.8 Propriedade Intelectual

Com relação ao termo “Propriedade Intelectual”, três países apresentam dois ou mais artigos cada (Austrália, Inglaterra, Índia e Estados Unidos), de diferentes autores:

País	Autor de Correspondência	Autor(es)	Título
Inglaterra	Dandy, N	Dandy, N	Intellectual property, biodiversity and sustainable development: Resolving the difficult issues
	Kelly, L	Kelly, L	Intellectual property rights, trade and biodiversity.
Índia	Utkarsh, G	Utkarsh, G Gadgil, M Rao, PRS	Intellectual property rights on biological resources: Benefiting from biodiversity and people's knowledge
	Gupta, AK	Gupta, AK	Rewarding creativity in conserving biodiversity in the third world: Can intellectual property rights serve the needs of contemporary and traditional knowledge experts and communities in the third world?
	Kothari, A Anuradha, RV	Kothari, A Anuradha, RV	Biodiversity, intellectual property rights, and GATT agreement - How to address the conflicts
	Shiva, V	Shiva, V	Agricultural biodiversity, intellectual property rights and farmers' rights
	Dobhal, R	Dobhal, R	Recognizing biodiversity and indigenous knowledge system under new intellectual property regime
EUA	Bhat, MG	Bhat, MG	On biodiversity access, intellectual property rights, and conservation
	HURLBUT, D	HURLBUT, D	Fixing the biodiversity convention - toward a special protocol for related intellectual property
Austrália	Merson, J	Merson, J	Bio-prospecting or bio-piracy: Intellectual property rights and biodiversity in a colonial and postcolonial context
	CHRISTIE, J	CHRISTIE, J	INDIGENOUS PEOPLES, BIODIVERSITY AND INTELLECTUAL PROPERTY-RIGHTS

Para a indexação das Áreas de Conhecimento da do CNPq, foi considerado todos os autores com 1 artigo cada, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
Índia	5	-
Inglaterra	2	-
EUA	2	-
Austrália	2	-

1.9 Fitomedicamentos

No termo “Fitomedicamentos”, cinco países se destacam com 50 ou mais artigos no período estudado: Japão, Estados Unidos, China, Inglaterra e Alemanha, conforme tabela a seguir:

País	Autor de Correspondência	Autor(es)	Título	
Japão (autores com mais de 2 artigos)	Yamada, H	Hong, T Matsumoto, T Kiyohara, H Yamada, H;	Enhanced production of hematopoietic growth factors through T cell activation in Peyer's patches by oral administration of Kampo (Japanese herbal) medicine, "Juzen-Taiha-To".;	
		Yabe, T Tuchida, H Kiyohara, H Takeda, T Yamada, H;	Induction of NGF synthesis in astrocytes by onjisaponins of Polygala tenuifolia, constituents of Kampo (Japanese herbal) medicine, Ninjin-Yoei-To;	
		Nagai, T Arai, Y Emori, M Nunome, SY Yabe, T Takeda, T Yamada, H;	Anti-allergic activity of a Kampo (Japanese herbal) medicine "Sho-seiryu-to (Xiao-Qing-Long-Tang)" on airway inflammation in a mouse model;	
		Matsumoto, T Yamada, H;	Orally administered Kampo (Japanese herbal) medicine, "Juzen-Taiho-To" modulates cytokine secretion in gut associated lymphoreticular tissues in mice;	
		Kiyohara, H Matsumoto, T Yamada, H;	Lignin-carbohydrate complexes: Intestinal immune system modulating ingredients in Kampo (Japanese herbal) medicine, Juzen-Taiho-To;	
		Matsumoto, T Sakurai, MH Kiyohara, H Yamada, H	Orally administered decoction of Kampo (Japanese herbal) medicine, "Juzen-Taiho-To" modulates cytokine secretion and induces NKT cells in mouse liver	
	Yamashiki, M	Huang, XX Yamashiki, M Nakatani, K Nobori, T Mase, A	Semi-quantitative analysis of cytokine mRNA expression induced by the herbal medicine Sho-saiko-to (TJ-9) using a Gel Doc system	
		Yamashiki, M Mase, A Arai, I Huang, XX Nobori, T Nishimura, A Sakaguchi, S Inoue, K	Effects of the Japanese herbal medicine 'Inchinko-to' (TJ-135) on concanavalin A-induced hepatitis in mice	
		YAMASHIKI, M NISHIMURA, A NOMOTO, M NAKANO, T SATO, T SUZUKI, H ZHENG, QX KLAPPROTH, JM JAMES, SP KOSAKA, Y	Effects of japanese herbal medicine sho-saiko-to on in-vitro production of tumor-necrosis-factor-alpha on peripheral-blood mononuclear-cells	
		Yamashiki, M Nishimura, A Nomoto, M Suzuki, H Kosaka, Y	Herbal medicine 'Sho-saiko-to' induces tumour necrosis factor-alpha and granulocyte colony-stimulating factor in vitro in peripheral blood mononuclear cells of patients with hepatocellular carcinoma	
	Japão (autores com mais de 2	Yamashiki, M	Yamashiki, M Nishimura, A Sakaguchi, S Suzuki, H Kosaka, Y	Effects of the Japanese herbal medicine 'Sho-saiko-to' as a cytokine inducer

País	Autor de Correspondência	Autor(es)	Título	
artigos)		Yamashiki, M Nishimura, A Suzuki, H Sakaguchi, S Kosaka, Y	Effects of the Japanese herbal medicine "Sho-saiko-to" (TJ-9) on in vitro interleukin-10 production by peripheral blood mononuclear cells of patients with chronic hepatitis C	
	Kainuma, M	Kainuma, M Hayashi, J Sakai, S Imai, K Mantani, N Kohta, K Mitsuma, T Shimada, Y Kashiwagi, S Terasawa, K	The efficacy of herbal medicine (Kampo) in reducing the adverse effects of IFN-beta in chronic hepatitis C	
		Kainuma, M Hikiami, H Nozaki, K Hayashi, K Shimada, Y Terasawa, K	The effect of a herbal medicine (Mao-to) for the prevention of interferon-induced psychiatric complications in chronic hepatitis C: a pilot study	
		Kainuma, M Ogata, N Kogure, T Kohta, K Hattori, N Mitsuma, T Terasawa, K	The efficacy of a herbal medicine (Mao-to) in combination with intravenous natural interferon-beta for patients with chronic hepatitis C, genotype 1b and high viral load: a pilot study	
		Kainuma, M Sakai, S Sekiya, N Mantani, N Ogata, N Shimada, Y Terasawa, K	The effects of a herbal medicine (Mao-to) in patients with chronic hepatitis C after injection of IFN-beta	
		Motoo, Y Su, SB Xie, MJ Mouri, H Taga, H Sawabu, N	Effect of herbal medicine Keishi-to (TJ-45) and its components on rat pancreatic acinar cell injuries in vivo and in vitro	
	Motoo, Y	Motoo, Y Su, SB Xie, MJ Taga, H Sawabu, N	Effect of herbal medicine Saiko-keishi-to (TJ-10) on rat spontaneous chronic pancreatitis - Comparison with other herbal medicines	
		Su, SB Motoo, Y Xie, MJ Sakai, J Taga, H Sawabu, N	Expression of pancreatitis-associated protein (PAP) in rat spontaneous chronic pancreatitis: Effect of herbal medicine Saiko-keishi-to (TJ-10)	
		Su, SB Motoo, Y Xie, MJ Taga, H Sawabu, N	Antifibrotic effect of the herbal medicine Saiko-keishi-to (TJ-10) on chronic pancreatitis in the WBN/Kob rat	
	Sakaida, I	Kayano, K Sakaida, I Uchida, K Okita, K	Inhibitory effects of the herbal medicine Sho-saiko-to (TJ-9) on cell proliferation and procollagen gene expressions in cultured rat hepatic stellate cells	
		Sakaida, I Hironaka, K Kimura, T Terai, S Yamasaki, T Okita, K	Herbal medicine Sho-saiko-to (TJ-9) increases expression matrix metalloproteinases (MMPs) with reduced expression of tissue inhibitor of metalloproteinases (TIMPs) in rat stellate cell	
		Sakaida, I Matsumura, Y Akiyama, S Hayashi, K Ishige, A Okita, K	Herbal medicine Sho-saiko-to (TJ-9) prevents liver fibrosis and enzyme-altered lesions in rat liver cirrhosis induced by a choline-deficient L-amino acid-defined diet	
	Japão (autores com mais de 2		Sakaida, I Tsuchiya, M Kawaguchi, K Kimura, T Terai, S Okita, K	Herbal medicine inchin-ko-to (TJ-135) prevents liver fibrosis and enzyme-altered lesions in rat liver cirrhosis induced by a cholinedeficient (L)-amino acid-defined diet

País	Autor de Correspondência	Autor(es)	Título	
artigos)	Yamada, K	Yamada, K Kanba, S Yagi, G Asai, M	Herbal medicine in the treatment of fluvoxamine-induced nausea and dyspepsia;	
			Effectiveness of herbal medicine (Shakuyaku-kanzo-to) for neuroleptic-induced hyperprolactinemia;	
			Herbal medicine (Shakuyaku-kanzo-to) in the treatment of risperidone-induced amenorrhea	
		Yamada, K Kanba, S	Herbal medicine (Kami-shoyo-san) in the treatment of premenstrual dysphoric disorder	
	Nakashima, I	Dai, Y Kato, M Takeda, K Kawamoto, Y Akhand, AA Hossain, E Suzuki, H Nakashima, I	Kato, M Liu, W Yi, H Asai, N Hayakawa, A Kozaki, K Takahashi, M Nakashima, I	T-cell-immunity-based inhibitory effects of orally administered herbal medicine juzentaiho-to on the growth of primarily developed melanocytic tumors in RET-transgenic mice
				The herbal medicine Sho-saiko-to inhibits growth and metastasis of malignant melanoma primarily developed in ret-transgenic mice
			Liu, W Kato, M Akhand, AA Hayakawa, A Takemura, M Yoshida, S Suzuki, H Nakashima, I	The herbal medicine sho-saiko-to inhibits the growth of malignant melanoma cells by upregulating Fas-mediated apoptosis and arresting cell cycle through downregulation of cyclin dependent kinases
	Sakamoto, S	SAKAMOTO, S FURUICHI, R MATSUDA, M KUDO, H SUZUKI, S SUGIURA, Y KUWA, K TAJIMA, M MATSUBARA, M NAMIKI, H MORI, T KAWASHIMA, S NAGASAWA, H	Sakamoto, S Mitamura, T Iwasawa, M Kitsunai, H Shindou, K Yagishita, Y Zhou, YF Sassa, S	Effects of chinese herbal medicines on dna-synthesizing enzyme-activities in mammary-tumors of mice
				Conservative management for perimenopausal women with uterine leiomyomas using Chinese herbal medicines and synthetic analogs of gonadotropin-releasing hormone
				Preventive effects of a herbal medicine on bone loss in rats treated with a GnRH agonist
	Satoh, H	Satoh, H Ishikawa, H Fujimoto, M Fujiwara, M Yamashita, YT Ohtsuka, M Hasegawa, S Kamma, H	Effects of Hochu-Ekki-To (TJ-41), a herbal medicine in combination with SN-38 in culture	
	Japão (autores com mais de 2 artigos)	Satoh, H	Satoh, H Ishikawa, H Kamma, H Ohtsuka, M Hasegawa, S	Enhancement of antitumor activity of cisplatin or SN-38 by Juzentaiho-to, a herbal medicine in lung cancer cell lines
Satoh, H Ishikawa, H Ohtsuka, M Sekizawa, K			Japanese herbal medicine in patients with advanced lung cancer: Prolongation of survival?	

País	Autor de Correspondência	Autor(es)	Título
	Shoyama, Y	Fukuda, N Tanaka, H Shoyama, Y	Applications of ELISA, Western blotting and immunoaffinity concentration for survey of ginsenosides in crude drugs of Panax species and traditional Chinese herbal medicines
		Kim, JS Tanaka, H Shoyama, Y	Immunoquantitative analysis for berberine and its related compounds using monoclonal antibodies in herbal medicines
		Lu, ZH Morinaga, O Tanaka, H Shoyama, Y	A quantitative ELISA using monoclonal antibody to survey paeoniflorin and albiflorin in crude drugs and traditional Chinese herbal medicines
	Tamaoki, J	TAMAOKI, J KONDO, M CHIYOTANI, A TAKEMURA, H KONNO, K	Effect of saiboku-to, an antiasthmatic herbal medicine, on nitric-oxide generation from cultured canine airway epithelial-cells
		Tamaoki, J Kondo, M Tagaya, E Takemura, K Konno, K	Zizyphi fructus, a constituent of antiasthmatic herbal medicine, stimulates airway epithelial ciliary motility through nitric oxide generation
		TAMAOKI, J TAKEMURA, H KONDO, M CHIYOTANI, A SAKAI, A KONNO, K	Effect of tj-96, an antiallergic herbal medicine, on tracheal transepithelial potential difference in-vivo
	Toda, S	Toda, S Yase, Y	Inhibitory effects of Ougi-keishi-gomotsu-to, a traditional herbal medicine, on lipid peroxidation and protein oxidative modification of mouse brain homogenate induced by copper;
			Inhibitory effects of Ougi-keishi-gomotsu-to, a traditional herbal medicine, on lipid peroxidation and protein oxidative modification
		Toda, S Ohnishi, M Tsuduki, M Yase, Y	Inhibitory effects of Keishi-bukuryo-gan, a traditional herbal medicine, on lipid peroxidation of brain homogenate
	Yoshikawa, M	Morikawa, T Xu, FM Matsuda, H Yoshikawa, M	Structures and radical scavenging activities of novel norstilbene dimer, longusone A, and new stilbene dimers, longusols A, B, and C, from Egyptian herbal medicine <i>Cyperus longus</i>
			Structures of new sesquiterpenes and hepatoprotective constituents from the Egyptian herbal medicine <i>Cyperus longus</i>
		Yoshikawa, M Morikawa, T Xu, FM Ando, S Matsuda, H	7R,8S) and (7S,8R) 8-5' linked neolignans from Egyptian herbal medicine <i>Anastatica hierochuntica</i> and inhibitory activities of lignans on nitric oxide production
	EUA (autores com mais de 1 artigo)	Howard, OMZ	Chen, X Oppenheim, J Howard, OMZ;
Chen, X Krakauer, T Oppenheim, JJ Howard, OMZ;			Yin Zi Huang, an injectable multicomponent Chinese herbal medicine, is a potent inhibitor of T-cell activation

País	Autor de Correspondência	Autor(es)	Título
		Chen, X Yang, L Zhang, N Turpin, JA Buckheit, RW Osterling, C Oppenheim, JJ Howard, OMZ	Shikonin, a component of Chinese herbal medicine, inhibits chemokine receptor function and suppresses human immunodeficiency virus type 1;
	Lowe, FC	Lowe, FC;	Phytotherapy in the management of benign prostatic hyperplasia;
		Lowe, FC Dreikorn, K Borkowski, A Braeckman, J Denis, L Ferrari, P Gerber, G Levin, R Perrin, P Senge, T;	Review of recent placebo-controlled trials utilizing phytotherapeutic agents for treatment of BPH;
		Lowe, FC Ku, JC	Phytotherapy in treatment of benign prostatic hyperplasia: A critical review
	Yuan, CS	Shao, ZH Li, CQ Becker, LB Vanden Hoek, TL Schumacker, PT Attele, AS Zhang, L Xie, JT Yuan, CS;	Qian-Kun-Nin, a Chinese herbal medicine formulation, attenuates mitochondrial oxidant stress in cardiomyocytes;
		Zhang, L Yue, ST Xue, YX Attele, AS Yuan, CS;	Effects of Qian-Kun-Nin, a Chinese herbal medicine formulation, on HIV positive subjects: A pilot study;
		Ang-Lee, MK Moss, J Yuan, CS	Herbal medicines and perioperative care
	Adusumilli, PS	Adusumilli, PS Ben- Porat, L Pereira, M Roesler, D Leitman, IM;	The prevalence and predictors of herbal medicine use in surgical patients;
		Adusumilli, PS Lee, B Parekh, K Farrelly, PA	Acalculous eosinophilic cholecystitis from herbal medicine: A review of adverse effects of herbal medicine in surgical patients
	Bent, S	Bent, S;	Systematic reviews of herbal medicines - Reply;
		Bent, S Ko, R	Commonly used herbal medicines in the United States: A review
	Cozzo, D	Cozzo, D	Trying to give ease: Tommie Bass and the story of herbal medicine;
			A reference guide to medicinal plants: Herbal medicine past and present
	Kupferberg, N	Kupferberg, N	Ancient herbs, modern medicine: Improving your health by combining Chinese herbal medicine and western medicine.;
			The psychopharmacology of herbal medicine: Plant drugs that alter mind, brain, and behavior.
EUA (autores com mais de 1 artigo)	Li, XM	Li, XM Huang, CK Zhang, TF Teper, AA Srivastava, K Schofield, BH Sampson, HA;	The Chinese herbal medicine formula MSSM-002 suppresses allergic airway hyperreactivity and modulates T(H)1/T(H)2 responses in a murine model of allergic asthma;
		Li, XM Zhang, TF Sampson, H Zou, ZM Beyer, K Wen, MC Schofield, B	The potential use of Chinese herbal medicines in treating allergic asthma

País	Autor de Correspondência	Autor(es)	Título
	Miller, LG	Miller, LG	Herbal medicinals: Selected clinical considerations, focusing on known or potential drug-herb interactions - Reply;
			Herbal medicinals - Selected clinical considerations focusing on known or potential drug-herb interactions
	Miller, MJS	Miller, MJS MacNaughton, WK Zhang, XJ Thompson, JH Charbonnet, RM Bobrowski, P Lao, J Trentacosti, AM Sandoval, M;	Treatment of gastric ulcers and diarrhea with the Amazonian herbal medicine sangre de grado;
		Miller, MJS Vergnolle, N McKnight, W Musah, RA Davison, CA Trentacosti, AM Thompson, JH Sandoval, M Wallace, JL	Inhibition of neurogenic inflammation by the amazonian herbal medicine Sangre de grado
	Overstreet, DH	Overstreet, DH Lee, DYW Chen, YT Rezvani, AH;	The Chinese herbal medicine NPI-028 suppresses alcohol intake in alcohol-preferring rats and monkeys without inducing taste aversion;
		Overstreet, DH Lee, YW Rezvani, AH Pei, YH Criswell, HE Janowsky, DS	Suppression of alcohol intake after administration of the Chinese herbal medicine, NPI-028, and its derivatives
	Stout, M	Stout, M	Encyclopedia of herbal medicine.;
			Chinese herbal medicine made easy: Natural and effective remedies for common illnesses.
	Tracy, TS	Glover, DD Rybeck, BF Tracy, TS;	Medication use in a rural gynecologic population: Prescription over-the-counter, and herbal medicines;
		Glover, DD Amonkar, M Rybeck, BF Tracy, TS	Prescription, over-the-counter, and herbal medicine use in a rural, obstetric population
	Vann, A	Vann, A	Herbal medicine - Response;
			The herbal medicine boom: Understanding what patients are taking
China (autores com mais de 1 artigo)	Yu, DQ	Yu, DQ Chen, Y Liang, XT;	Structural chemistry and biological activities of natural products from Chinese herbal medicines;
			Structural chemistry and biological activities of natural products from chinese herbal medicines - Part II;
China (autores com mais de 1 artigo)	Yu, DQ	Yu, DQ	Recent results on structural chemistry of new natural products from Chinese herbal medicine
	Liang, YZ	Gong, F Liang, YZ Xie, PS Chau, FT;	Information theory applied to chromatographic fingerprint of herbal medicine for quality control;
		Gong, F Liang, YZ Fung, YS Chau, FT;	Correction of retention time shifts for chromatographic fingerprints of herbal medicines;

País	Autor de Correspondência	Autor(es)	Título		
		Li, BY Hu, Y Liang, YZ Huang, LF Xu, CJ Xie, PS	Spectral correlative chromatography and its application to analysis of chromatographic fingerprints of herbal medicines		
		Kong, LD	Guo, YS Kong, LD Wang, YM Huang, ZQ;	Antidepressant evaluation of polysaccharides from a Chinese herbal medicine Banxia-houpu decoction;	
			Kong, LD Yang, C Ge, F Wang, HD Guo, YS	A Chinese herbal medicine Ermiao wan reduces serum uric acid level and inhibits liver xanthine dehydrogenase and xanthine oxidase in mice	
		Li, JC	Li, JC Ding, SP Xu, J;	Regulating effect of Chinese herbal medicine on the peritoneal lymphatic stomata in enhancing ascites absorption of experimental hepatofibrotic mice;	
			Ding, SP Li, JC Xu, J Mao, LG	Study on the mechanism of regulation on peritoneal lymphatic stomata with Chinese herbal medicine	
		Li, LF	Li, LF Wang, J;	Patch testing in allergic contact dermatitis caused by topical Chinese herbal medicine;	
			LI, LF ZHAO, J LI, SY	Exanthematous drug eruption due to chinese herbal medicines sanjieling capsule and huoxuexiaoyan pill	
		Inglaterra (autores com mais de 1 artigo)	Ernst, E	Ernst, E;	Herbal medicinal products during pregnancy?
					Herbal medicinal products;
					Toxic heavy metals and undeclared drugs in Asian herbal medicines;
Herbal medicinal products: an overview of systematic reviews and meta-analyses;					
Herbal medicines: where is the evidence? Growing evidence of effectiveness is counterbalanced by inadequate regulation;					
Cardiovascular adverse effects of herbal medicines: A systematic review of the recent literature;					
Are herbal medicines effective?;					
Serious psychiatric and neurological adverse effects of herbal medicines - a systematic review;					
Possible interactions between synthetic and herbal medicinal products Part 1: a systematic review of the indirect evidence;					
Interactions between synthetic and herbal medicinal products Part 2: a systematic review of the direct evidence;					
From traditional herbalism to modern phytomedicine;					
Herbal medicines for children;					
Systematic reviews of herbal medicines;					
Phytotherapy;					
Phytotherapeutic Research;					
Spotlight on herbal medicine;					
Adulteration of Chinese herbal medicines with synthetic drugs: a systematic review;					
Herbal medicines put into context - Their use entails risks, but probably fewer than with synthetic drugs;					

País	Autor de Correspondência	Autor(es)	Título
		Ernst, E Pittler, MH	Herbal medicine;
	CAHILL, DJ	CAHILL, DJ;	Multiple follicular development associated with a herbal medicine;
		CAHILL, DJ FOX, R WARDLE, PG HARLOW, CR	Multiple follicular development associated with herbal medicine
Inglaterra (autores com mais de 1 artigo)	McIntyre, M	McIntyre, M	A review of the benefits, adverse events, drug interactions, and safety of St. John's wort (<i>Hypericum perforatum</i>): The implications with regard to the regulation of herbal medicines;
			Alternative licensing for herbal medicine-like products in the European Union
	Mills, SY	Mills, SY Steinhoff, B;	Kava-kava: a lesson for the phytomedicine community;
		Mills, SY Jacoby, RK Chacksfield, M Willoughby, M	Effect of a proprietary herbal medicine on the relief of chronic arthritic pain: A double-blind study
Alemanha (autores com mais de 1 artigo)	Brinkhaus, B	Brinkhaus, B Lindner, M Hentschel, C Rauwald, HW Bilow, F Stockhammer, K Kruger, S von Massow, F Sutarjadi, H Hahn, EG;	Centella asiatica in traditional and modern phytomedicine - A pharmacological and clinical profile - Part I: Botany, chemistry, preparations
			Centella asiatica in traditional and modern phytomedicine - A pharmacological and clinical profile - Part II: Pharmacological and therapeutical profile, conclusions;
		Brinkhaus, B Hummelsberger, J Kohnen, R Seufert, J Hempfen, CH Leonhardy, H Nogel, R Joos, S Hahn, E Schuppan, D	Acupuncture and Chinese herbal medicine in the treatment of patients with seasonal allergic rhinitis: a randomized-controlled clinical trial;
	Dreikorn, K	DREIKORN, K SCHONHOFER, PS; Dreikorn, K Berges, R Pientka, L Jonas, U;	The place of phytotherapy in the treatment of benign prostatic hyperplasia;
			Phytotherapy. Current evidence-based evaluation;
			The role of phytotherapy in treating lower urinary tract symptoms and benign prostatic hyperplasia
	Steinhoff, B	Steinhoff, B	New documents for the assessment of Herbal Medicinal Products;
			Regulatory status of herbal medicinal products in Germany;
			The contribution of the European Scientific Cooperative on Phytotherapy and World Health Organization monographs
	Alemanha (autores com mais de 1 artigo)	Wagner, H	Wagner, H
From herbal medicine to rational phytotherapy;			
Phytomedicine research in Germany			

País	Autor de Correspondência	Autor(es)	Título
	Bertram, B	Tang, WC Hemm, I Bertram, B	Recent development of antitumor agents from Chinese herbal medicines. Part II. High molecular compounds;
			Recent development of antitumor agents from Chinese herbal medicines; Part I. Low molecular compounds
	Gruenwald, J	Gruenwald, J	The emerging role of herbal medicine in health care in Europe;
			Advances in Natural Therapy (TM) - An international forum for clinical research in phytomedicine and natural therapy
	Heinrich, M	Heinrich, M	Trying to give ease: Tommie Bass and the story of herbal medicine;
			A reference guide to medicinal plants: Herbal medicine past and present.
	Kraft, K	Kraft, K Loew, D Schneider, B Kemper, FH;	Planning, realisation and evaluation of post-marketing-surveillance studies - Recommendations of the Gesellschaft fur Phytotherapie (GPHY);
			Kraft, K
	Linde, K	Linde, K ter Riet, G Hondras, M Melchart, D Willich, SN;	Characteristics and quality of systematic reviews of acupuncture, herbal medicines, and homeopathy;
			Linde, K Jonas, WB Melchart, D Willich, S
	Loew, D	Loew, D; Loew, D Schwankl, W	Phytotherapy in heart failure
			Symptomatic treatment of chronic venous insufficiency (CVI) with herbal medicinal products;

Para a indexação das Áreas de Conhecimento da do CNPq, foi considerado apenas o autor mais representativo da amostra, neste caso Ernst, E., com 19 artigos, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
Japão	215	-
EUA	135	-
China	60	-
Inglaterra	53	Ernst, E
Alemanha	50	-

2 Tema: Bioeconomia

Foram identificados 129 artigos focados no tema Bioeconomia. A tabela a seguir apresenta os 10 países com 3 ou mais artigos, uma vez que nenhum país se destaca em autoria.

São apresentadas abaixo as seguintes informações dos artigos: autor de correspondência, autor (ou rede de autores) e título:

País	Autor de Correspondência	Autor	Título
EUA	Barbier, B	Barbier, B Bergeron, G;	Impact of policy interventions on land management in Honduras: results of a bioeconomic model;
		Barbier, B	Induced innovation and land degradation: Results from a bioeconomic model of a village in west Africa
	Buhler, DD	Buhler, DD King, RP Swinton, SM Gunsolus, JL Forcella, F	Field evaluation of a bioeconomic model for weed management in soybean (<i>Glycine max</i>);
			Field evaluation of a bioeconomic model for weed management in corn (<i>Zea mays</i>)
	Sanchirico, JN	Sanchirico, JN Wilen, JE	A bioeconomic model of marine reserve creation;
			Bioeconomics of spatial exploitation in a patchy environment
	Agar, JJ	Agar, JJ Sutinen, JG	Rebuilding strategies for multispecies fisheries: A stylized bioeconomic model
	Alexander, RR	Alexander, RR Shields, DW	Using land as a control variable in density-dependent bioeconomic models
	Andrews, SS	Andrews, SS Lohr, L Cabrera, ML	A bioeconomic decision model comparing composted and fresh litter for winter squash
	AZZAM, A	AZZAM, A BAKER, M BERRY, I CAMPBELL, J	An exploratory bioeconomic model of pesticide use for controlling feedlot-cattle pests
	Boland, MA	Boland, MA Foster, KA Preckel, PV Schinckel, AP	Analyzing pork carcass evaluation technologies in a swine bioeconomic model
	Cooper, K	Cooper, K Huffaker, R	The long-term bioeconomic impacts of grazing on plant succession in a rangeland ecosystem
	Gillig, D	Gillig, D Griffin, WL Ozuna, T	A bioeconomic assessment of Gulf of Mexico Red Snapper Management Policies
	Gowdy, J	Gowdy, J Mesner, S	The evolution of Georgescu-Roegen's bioeconomics
EUA	Holland, DS	Holland, DS	A bioeconomic model of marine sanctuaries on Georges Bank
	Howarth, RB	Howarth, RB	The origins of ecological economics: The bioeconomics of Georgescu-Roegen
	Jaeger, WK	Jaeger, WK	Saving salmon with fishwheels: A bioeconomic analysis

País	Autor de Correspondência	Autor	Título
	Kazmierczak, RF	Kazmierczak, RF	An empirical bioeconomic investigation of efficiency in the insecticide regulatory process
	Larkin, SL	Larkin, SL Sylvania, G	Intrinsic fish characteristics and intraseason production efficiency: A management-level bioeconomic analysis of a commercial fishery
	Laukkanen, M	Laukkanen, M	A bioeconomic analysis of the northern Baltic salmon fishery: Coexistence versus exclusion of competing sequential fisheries
	Lee, CS	Lee, CS Leung, PS Su, MS	Bioeconomic evaluation of different fry production systems for milkfish (<i>Chanos chanos</i>)
	Leung, B	Leung, B Lodge, DM Finnoff, D Shogren, JF Lewis, MA Lamberti, G	An ounce of prevention or a pound of cure: bioeconomic risk analysis of invasive species
	MELTON, BE	MELTON, BE COLETTE, WA SMITH, KJ WILLHAM, RL	A time-dependent bioeconomic model of commercial beef breed choices
	Mullen, JD	Mullen, JD Taylor, DB Fofana, M Kebe, D	A bio-economic model of long-run Striga control with an application to subsistence farming in Mali
	Namken, JC	Namken, JC Stuth, JW	A prototype graphic landscape analysis system .2. A bioeconomic analysis model for grazing land development
	Oriade, CA	Oriade, CA Dillon, CR	Developments in biophysical and bioeconomic simulation of agricultural systems: a review
	Rodriguez-Zas, SL	Rodriguez-Zas, SL Southey, BR Knox, RV Connor, JF Lowe, JF Roskamp, BJ	Bioeconomic evaluation of sow longevity and profitability
	SAMPSON, DB	SAMPSON, DB	Fishing tactics in a 2-species fisheries model - the bioeconomics of bycatch and discarding
	Sharov, AA	Sharov, AA	Bioeconomics of managing the spread of exotic pest species with barrier zones
	SWINTON, SM	SWINTON, SM KING, RP	A bioeconomic model for weed management in corn and soybean
	Tozer, PR	Tozer, PR Huffaker, RG	Dairy deregulation and low-input dairy production: A bioeconomic evaluation
EUA	van Kooten, GC	van Kooten, GC Stennes, B Bulte, EH	Cattle and wildlife competition for forage: Budget versus bioeconomic analyses of public range improvements in British Columbia
Austrália	Grist, PG Menz, KM	Grist, PG Menz, KM	On-site effects of Imperata burning by Indonesian smallholders: A bioeconomic model

País	Autor de Correspondência	Autor	Título
		Menz, KM Grist, PG	Increasing rubber planting density to shade Imperata: A bioeconomic modelling approach
		Grist, PG Menz, KM	The economics of Imperata control in Indonesian smallholder rubber (Hevea spp.) plantations using bioeconomic modelling
	Cacho, O	Purnamasari, R Cacho, O Simmons, P	Management strategies for Indonesian rubber production under yield and price uncertainty: a bioeconomic analysis
	Fleming, E	Fleming, E Milne, M	Bioeconomic modelling of the production and export of cocoa for price policy analysis in Papua New Guinea
	Ghadim, AKA	Ghadim, AKA	Water repellency: a whole-farm bio-economic perspective
	Hallegraeff, GM	Hallegraeff, GM	Transport of toxic dinoflagellates via ships' ballast water: bioeconomic risk assessment and efficacy of possible ballast water management strategies
	HOCHMAN, Z	HOCHMAN, Z MEARS, PT FARQUHARSON, RJ HINDMARSH, JH PEARSON, CJ	A multiple-domain knowledge-based system - coordination and integration of agronomic and economic knowledge bases with databases and bioeconomic models
	McDonald, AD	McDonald, AD Sandal, LK Steinshamn, SI	Implications of a nested stochastic/deterministic bio-economic model for a pelagic fishery
	Monjardino, M	Monjardino, M Pannell, DJ Powles, SB	Multispecies resistance and integrated management: a bioeconomic model for integrated management of rigid ryegrass (<i>Lolium rigidum</i>) and wild radish (<i>Raphanus raphanistrum</i>)
	Pannell, DJ	Pannell, DJ Stewart, V Bennett, A Monjardino, M Schmidt, C Powles, SB	RIM: a bioeconomic model for integrated weed management of <i>Lolium rigidum</i> in Western Australia
	Pezzey, JCV	Pezzey, JCV Roberts, CM Urdal, BT	A simple bioeconomic model of a marine reserve
Noruega	Armstrong, CW	Armstrong, CW	Sharing a fish resource - Bioeconomic analysis of an applied allocation rule
	Flaaten, O	Flaaten, O	On the bioeconomics of predator and prey fishing
Noruega	Holden, S	Holden, S Shiferaw, B	Land degradation, drought and food security in a less-favoured area in the Ethiopian highlands: a bio-economic model with market imperfections
	Moxnes, E	Moxnes, E	Not only the tragedy of the commons: Misperceptions of bioeconomics

País	Autor de Correspondência	Autor	Título
	Reithe, S	Reithe, S Aschan, MM	Bioeconomic analysis of by-catch of juvenile fish in the shrimp fisheries - an evaluation of management procedures in the Barents Sea
	Sandal, LK	Sandal, LK Steinshamn, SI	A bio-economic model for Namibian pilchard
	Sandberg, P	Sandberg, P Bogstad, B Rottingen, I	Bioeconomic advice on TAC - the state of the art in the Norwegian fishery management
	Sankhayan, PL	Sankhayan, PL Gurung, N Sitaula, BK Hofstad, O	Bio-economic modeling of land use and forest degradation at watershed level in Nepal
	Skonhoff, A	Johannesen, AB Skonhoff, A	Property rights and natural resource conservation. A bio-economic model with numerical illustrations from the Serengeti-Mara ecosystem
	Stenseth, NC	Stenseth, NC Leirs, H Skonhoff, A Davis, SA Pech, RP Andreassen, HP Singleton, GR Lima, M Machang'u, RS Makundi, RH Zhang, ZB Brown, PR Shi, DZ Wan, XR	Mice, rats, and people: the bio-economics of agricultural rodent pests
	Sumaila, UR	Sumaila, UR	Protected marine reserves as fisheries management tools: a bioeconomic analysis
Canadá	AMER, PR	AMER, PR KEMP, RA BUCHANANSMITH, JG FOX, GC SMITH, C	A bioeconomic model for comparing beef-cattle genotypes at their optimal economic slaughter end-point
	Duchesne, LC	Duchesne, LC Wetzel, S	The bioeconomy and the forestry sector: Changing markets and new opportunities
	Koots, KR	Koots, KR Gibson, JP	Economic values for beef production traits from a herd level bioeconomic model
	Landa, JT	Landa, JT	Bioeconomics of schooling fishes: selfish fish, quasi-free riders, and other fishy tales
	Mackinson, S	Mackinson, S Sumaila, UR Pitcher, TJ	Bioeconomics and catchability: Fish and fishers behaviour during stock collapse
	Makarechian, M	Pang, H Makarechian, M Basarab, JA Berg, RT	Application of a dynamic simulation model on the effects of calving season and weaning age on bioeconomic efficiency
Canadá	Makarechian, MH	Pang, H Makarechian, MH Basarab, JA	A simulation study on the effects of cow size and milk production on bioeconomic efficiency of range beef cattle
	Penney, RW	Penney, RW Mills, TJ	Bioeconomic analysis of a sea scallop, <i>Placopecten magellanicus</i> , aquaculture production system in Newfoundland, Canada

País	Autor de Correspondência	Autor	Título
	STEWART, RR	STEWART, RR MARTEL, M	Application of a bioeconomic strategic-planning model to an industrial forest in saskatchewan
México	Canedo-Lopez, Y	Canedo-Lopez, Y Dreyfus-Leon, MJ Cota-Villavicencio, A	The use of a bioeconomical model in the fishery of the red sea urchin, <i>Strongylocentrotus franciscanus</i> , from the northwestern coast of Baja California, Mexico
	De Anda-Montanez, A	De Anda-Montanez, A Seijo, JC	Bioeconomics of the Pacific sardine (<i>Sardinops sagax</i>) fishery in the Gulf of California, Mexico
	Defeo, O	Defeo, O Seijo, JC	Yield-mortality models: a precautionary bioeconomic approach
	Gasca-Leyva, E	Gasca-Leyva, E Leon, CJ Hernandez, JM Vergara, JM	Bioeconomic analysis of production location of sea bream (<i>Sparus aurata</i>) cultivation
	HernandezLlamas, A	HernandezLlamas, A	Management strategies of stocking density and length of culture period for the Catarina scallop <i>Argopecten circularis</i> (Sowerby): A bioeconomic approach
	Montaldo, HH	Montaldo, HH Meza, CA	Genetic goat resources in Mexico: Bio-economical efficiency of local and specialised genotypes
	Rueda, M	Rueda, M Defeo, O	A bioeconomic multispecies analysis of an estuarine small-scale fishery: spatial structure of biovalue
	Seijo, JC	Seijo, JC Caddy, JF	Uncertainty in bio-economic reference points and indicators of marine fisheries
Holanda	Bulte, EH	Bulte, EH van Kooten, GC	Harvesting and conserving a species when numbers are low: population viability and gambler's ruin in bioeconomic models;
			Metapopulation dynamics and stochastic bioeconomic modeling
	Ruben, R	Ruben, R Moll, H Kuyvenhoven, A;	Integrating agricultural research and policy analysis: Analytical framework and policy applications for bio-economic modelling
Ruben, R van Ruijven, A		Technical coefficients for bio-economic farm household models: a meta-modelling approach with applications for Southern Mali;	
Holanda	de Buck, AJ	de Buck, AJ Schoorlemmer, HB Wossink, GAA Janssens, SRM	Risks of post-emergence weed control strategies in sugar beet: development and application of a bio-economic model
	Imeson, RJ	Imeson, RJ Van den Bergh, JCJM	A bioeconomic analysis of a shellfishery: The effects of recruitment and habitat in a metapopulation model

País	Autor de Correspondência	Autor	Título
	Kruseman, G	Kruseman, G Bade, J	Agrarian policies for sustainable land use: Bio-economic modelling to assess the effectiveness of policy instruments
Inglaterra	Ashcroft, M	Ashcroft, M	Bioeconomics and sustainability: Essays in honour of Nicolas Georgescu-Roegen
	Bene, C	Bene, C Doyen, L Gabay, D	A viability analysis for a bio-economic model
	LORENTZON, M	LORENTZON, M	Bioeconomy - matriarchy in postcapitalism - Bokun,b
	Mardle, S	Mardle, S Pascoe, S	Use of evolutionary methods for bioeconomic optimization models: an application to fisheries
	WHITE, B	WHITE, B WADSWORTH, R	A bioeconomic model of heather moorland management and conservation
Dinamarca	Christensen, S	Christensen, S	Potential bioeconomic impact of reduced mortality of codend escapees of the shrimp fishery in the davis-strait;
			Evaluation of management strategies - A bioeconomic approach applied to the Greenland shrimp fishery
	Ulrich, C	Ulrich, C Le Gallic, B Dunn, MR Gascuel, D;	A multi-species multi-fleet bioeconomic simulation model for the English Channel artisanal fisheries;
Escócia	Roughsedge, T	Roughsedge, T Amer, PR Simm, G;	A bio-economic model for the evaluation of breeds and mating systems in beef production enterprises;
		Roughsedge, T Lowman, B Amer, PR Simm, G	Impacts of alternative replacement breeding systems on biological and economic performance in beef suckler production using a herd level bio-economic model
	Conington, J	Conington, J Bishop, SC Waterhouse, A Simm, G	A bioeconomic approach to derive economic values for pasture-based sheep genetic improvement programs
Escócia	Herrero, M	Herrero, M Fawcett, RH Dent, JB	Bio-economic evaluation of dairy farm management scenarios using integrated simulation and multiple-criteria models
Espanha	Lleonart, J	Lleonart, J Maynou, F Recasens, L Franquesa, R;	A bioeconomic model for Mediterranean fisheries, the hake off Catalonia (western Mediterranean) as a case study;

País	Autor de Correspondência	Autor	Título
		Lleonart, J Franquesa, R Salat, J Oliver, P	Heures" a bio-economic model for Mediterranean fisheries, towards an approach for the evaluation of management strategies
	Garza-Gil, MD	Garza-Gil, MD Varela-Lafuente, MM Suris-Regueiro, JC	European hake fishery bioeconomic management (southern stock) applying an effort tax

Para a indexação das Áreas de Conhecimento da do CNPq, foram considerados os autores mais representativos da amostra os dois da Austrália, com 3 artigos em conjunto, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
EUA	32	-
Austrália	12	Grist, PG e Menz, KM
Noruega	11	-
Canadá	9	-
México	8	-
Holanda	7	-
Inglaterra	5	-
Dinamarca	4	-
Escócia	4	-
Espanha	3	-

Cabe ressaltar que os termos deste tema Bioeconomia não foram objeto de publicações no período estudado.

3 Tema: Bioindústria

Foram identificados 84 artigos focados no tema Bioindústria, sendo que apenas quatro países publicaram 2 ou mais artigos (Estados Unidos, França, Índia e Noruega), e todos os autores apresentam apenas um artigo.

Para os artigos destes países, são apresentados a seguir: autor de correspondência, autor (ou rede de autores) e título:

País	Autor de Correspondência	Autor(es)	Título
EUA	Anderson, D	Anderson, D	Bioindustry's new face of leadership: Women CEOs
	Aromando, AP	Aromando, AP	Bioindustry's new face of leadership: Women CEOs
	Guttman, A	Khandurina, J Blum, DL Stege, JT Guttman, A	Automated carbohydrate profiling by capillary electrophoresis: A bioindustrial approach
	Hamilton, C	Hamilton, C	Bioindustry's new face of leadership: Women CEOs
	Rubingh, DN	Rubingh, DN	Protein engineering from a bioindustrial point of view
França	BENOITBROWAEYS, D	BENOITBROWAEYS, D	Toulouse - a new-deal for bioindustries
	BERTHIER, AL	BERTHIER, AL	When bioindustry can be measured
	CECCALDI, P	CECCALDI, P	Bioindustry in its environment
	REVERBORI, H	REVERBORI, H	Gmos in the bioindustry
Índia	Kumar, CG	Kumar, CG Takagi, H	Microbial alkaline proteases: From a bioindustrial viewpoint
	Pandey, A	Banerjee, R Pandey, A	Bio-industrial applications of sugarcane bagasse: A technological perspective
Noruega	Dossland, A	Dossland, A	Agricultural history of Norway, vol 4, 1920-2000. From rural society to bioindustry
	Espeli, H	Espeli, H	Norwegian agrarian history, vol 4, 1920-2000. From society of farmers to bioindustry

Uma vez que todos os autores têm frequência um, todos os artigos serão considerados para a indexação da área de conhecimento do CNPq e da base de dados.

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
EUA	5	-
França	4	-
Índia	2	-
Noruega	2	-

TERMOS da BIOINDUSTRIA

Quanto aos termos sugeridos (pelos especialistas) sobre esse tema Bioindústria, a tabela a seguir mostra o número de artigos localizados para cada termo, destacando-se bioprodutos.

TEMAS	TERMOS	Nº artigos focados
BIOINDÚSTRIA	Bioprodutos	134
	Designing	6

3.1 Bioprodutos

Com relação ao termo “bioprodutos”, 10 países se destacam na publicação de artigos, inclusive o **Brasil**, conforme a tabela a seguir:

País	Autor de Correspondência	Autor(es)	Título
EUA	CHANG, HC	CHANG, HC ORIEL, P	Bioproduction of perillyl alcohol and related monoterpenes by isolates of bacillus-stearothermophilus
	Cheryan, M	Singh, N Cheryan, M	Membrane technology in corn refining and bioproduct-processing
	Cockrem, M	Cockrem, M Santana, CC	Downstream processing of bioproducts
	Ganeshram, RS	Ganeshram, RS Pedersen, TF	Glacial-interglacial variability in upwelling and bioproductivity off NW Mexico: Implications for quaternary paleoclimate
	Harris, RA	Harris, RA Dale, BE	Bioenergy and bioproducts - Forum on recent government initiatives
	Hofacre, CL	Hofacre, CL Froyman, R Gautrias, B George, B Goodwin, MA Brown, J	Use of aviguard and other intestinal bioproducts in experimental Clostridium perfringens-associated necrotizing enteritis in broiler chickens
	Keefer, CL	Keefer, CL	Production of bioproducts through the use of transgenic animal models
	Langer, ES	Langer, ES	Outsourcing trends in the manufacture of bioproducts
	Loubere, P	Loubere, P	Remote vs. local control of changes in eastern equatorial Pacific bioproductivity from the Last Glacial Maximum to the Present
	Malone, MF	Pai, RA Doherty, MF Malone, MF	Design of reactive extraction systems for bioproduct recovery
McLaren, JS	McLaren, JS Jeffries, TW	Genetics and genomics in bioenergy and bioproducts	
EUA	Nelson, RG	Nelson, RG Walsh, M Sheehan, JJ Graham, R	Methodology for estimating removable quantities of agricultural residues for bioenergy and bioproduct use
	Orts, WJ	Orts, WJ Inglesby, M Glenn, GM	Bringing Bioproducts to market

País	Autor de Correspondência	Autor(es)	Título
	Rich, JJ	Rich, JJ Hollander, D Birchfield, GE	Role of regional bioproductivity in atmospheric CO2 changes
Inglaterra	Lyddiatt, A	Jahanshahi, M Pacek, AW Nienow, AW Lyddiatt, A;	Fabrication by three-phase emulsification of pellicular adsorbents customised for liquid fluidised bed adsorption of bioproducts;
		Walker, SG Lyddiatt, A;	Processing of nanoparticulate bioproducts: application and optimisation of aqueous two-phase systems;
		Lyddiatt, A	Process chromatography: current constraints and future options for the adsorptive recovery of bioproducts
	Bracewell, DG	Bracewell, DG Brown, RA Gill, A Hoare, M	Monitoring and control of bioproducts from conception to production in real-time using an optical biosensor
	FRANKS, F	Franks, F	Accelerated stability testing of bioproducts - attractions and pitfalls
	Hoare, M	Gill, A Bracewell, DG Maule, CH Lowe, PA Hoare, M	Bioprocess monitoring: An optical biosensor for rapid bioproduct analysis
	ROBERTS, P	ROBERTS, P	Virus safety in bio products
	Thomas, ORT	Heeboll-Nielsen, A Justesen, SFL Hobley, TJ Thomas, ORT	Superparamagnetic cation-exchange adsorbents for bioproduct recovery from crude process liquors by high-gradient magnetic fishing
Alemanha	Kasche, V	Kasche, V De Boer, M;	Work-up of bioproducts
		Kasche, V Gottschlich, N	Work-up of bioproducts
	Buttner, M	Buttner, M Oehmig, A Weiland, F Rziha, HJ Pfaff, E	Detection of virus or virus specific nucleic acid in foodstuff or bioproducts - hazards and risk assessment
	Frank, M	Frank, M Gersonde, R van der Loeff, MR Bohrmann, G Nurnberg, CC Kubik, PW Suter, M Mangini, A	Similar glacial and interglacial export bioproductivity in the Atlantic sector of the Southern Ocean: Multiproxy evidence and implications for glacial atmospheric CO2
	Krebs, B	Rompel, A Fischer, H Meiwes, D Buldt- Karentzopoulos, K Magrini, A Eichen, C Gerdemann, C Krebs, B	Substrate specificity of catechol oxidase from <i>Lycopus europaeus</i> and characterization of the bioproducts of enzymic caffeic acid oxidation
	KULA, M	KULA, M CRAMER, SM	Recovery and purification of bioproducts .2. Preface
	KULA, MR	KULA, MR CRAMER, SM	Recovery and purification of bioproducts .1. Preface
Japão	Izumori, K	Granstrom, TB Takata, G Tokuda, M Izumori, K;	Izumoring: A novel and complete strategy for bioproduction of rare sugars;
		Izumori, K	Bioproduction strategies for rare hexose sugars
	Dwi, S	Dwi, S Hirata, K Asada, Y Miyamoto, K	Utilization of cyanobacterial biomass from water bloom for bioproduction of lactic acid

País	Autor de Correspondência	Autor(es)	Título
	Honda, H	Honda, H	Quantification of bioproducts and supervision of bioprocesses by knowledge-based modeling - Monograph
	Kawamukai, M	Kawamukai, M	Biosynthesis, bioproduction and novel roles of ubiquinone
	Uozumi, T	Uozumi, T	Fundamental studies for reinforcement of bioproduction using molecular genetics
França	Choplin, L	Choplin, L	Rheological mastery of complex procedures for the transformation of bioproducts
	Launay, B	Launay, B	Rheological aspects of the gelling of bioproducts
	Leuliet, JC	Leuliet, JC	Heat treatment for non-Newtonian bioproducts
	Nicolet, Y	Nicolet, Y Fontecilla-Camps, JC	Catalytic aspects of the bioproduction of hydrogen
	Roux-deBalmann, H	Roux-deBalmann, H Cerro, RM Sanchez, V	Purification of bioproducts by free-flow zone electrophoresis: Choice of processing parameters
Rússia	Matishov, GG	Matishov, GG Gargopa, YM	Present-day specific features of hydrometeorological conditions of the formation of bioproductivity in the Sea of Azov;
		Matishov, GG Gargopa, YM	Interrelation between long-term hydrometeorological variations and bioproductivity of the Sea of Azov
	CHIBISOV, GA	CHIBISOV, GA	Bioproductivity of spruce stands in northern european russia
	MOISEEV, PA	MOISEEV, PA	Present fish productivity and bioproduction potential of the world oceans
	Ovchinnikova, MF	Ovchinnikova, MF Kareva, OV	Changes in some properties and bioproductivity of soddy-podzolic soil depending on slope exposure
Espanha	Alonso, AA	Alonso, AA Banga, JR PerezMartin, R	A complete dynamic model for the thermal processing of bioproducts in batch units and its application to controller design
	BANGA, JR	BANGA, JR ALONSO, AA PEREZMARTIN, RI SINGH, RP	Optimal-control of heat and mass-transfer in food and bioproducts processing
	Ortuno, A	Oncina, R Botia, JM Del Rio, JA Ortuno, A	Bioproduction of diosgenin in callus cultures of <i>Trigonella foenum-graecum</i> L.
Espanha	Rodriguez-Cabello, JC	Girotti, A Reguera, J Rodriguez-Cabello, JC Arias, FJ Alonso, M Testera, AM	Design and bioproduction of a recombinant multi(bio)functional elastin-like protein polymer containing cell adhesion sequences for tissue engineering purposes
	Vicente, C	Blanco, Y Blanch, M Fontaniella, B Legaz, ME Millanes, AM Pereira, EC Vicente, C	Bioproduction of lichen phenolics by immobilized lichen cells with emphasis on the role of epiphytic bacteria

País	Autor de Correspondência	Autor(es)	Título
Brasil	da Silva, SS	Rodrigues, DCGD da Silva, SS Vitolo, M	Influence of pH on the xylose reductase activity of <i>Candida guilliermondii</i> during fed-batch xylitol bioproduction
	Fontana, JD	Fontana, JD Czezuga, B Bonfim, TMB Chociai, MB Oliveira, BH Guimaraes, MF Baron, M	Bioproduction of carotenoids: The comparative use of raw sugarcane juice and depolymerized bagasse by <i>Phaffia rhodozyma</i>
	Mattedi, A	Mattedi, A Maciel, R	Development of switched predictive control system for continuous purification process of bioproducts
	PEREIRA, EC	PEREIRA, EC PEREYRA, T MATOS, SC DASILVA, NH ANDRADE, L VICENTE, C	Bioproduction of usnic acid from acetate by kaolinite immobilized cells of <i>cladonia-substellata</i> vain
Holanda	Husken, LE	Husken, LE Oomes, M Schroen, K Tramper, J de Bont, JAM Beeftink, R;	Membrane-facilitated bioproduction of 3-methylcatechol in an octanol/water two-phase system;
		Husken, LE Dalm, MCF Tramper, J Wery, J de Bont, JAM Beeftink, R	Integrated bioproduction and extraction of 3-methylcatechol
	KERKHOF, PJAM	KERKHOF, PJAM	A test of lumped-parameter methods for the drying rate in fluidized-bed driers for bioproducts
	van der Wielen, LAM	van der Wielen, LAM Cabatingan, LK	Fishing products from the sea - rational downstream processing of marine bioproducts
Polônia	Strumillo, C	Strumillo, C;	Special issue: Drying and dewatering of bioproducts;
		Strumillo, C Zbicinski, I Liu, XD	Effect of particle structure on quality retention of bio-products during thermal drying
	Kaminski, W	Kaminski, W Strumillo, P Tomczak, E Zbicinski, I	Modelling of thermal degradation process dynamics of bioproducts using artificial neural networks

Para efeito de indexação das áreas de conhecimento do CNPq e da base de dados, serão considerados os artigos do **Brasil** e aqueles do autor mais representativo da amostra (Lyddiatt, A., da Inglaterra, com 3 artigos):

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	14	-
Inglaterra	8	Lyddiatt, A
Alemanha	7	-
Japão	6	-
França	5	-
Rússia	5	-
Espanha	5	-
Brasil	4	-
Holanda	4	-
Polônia	3	-

3.2 Design

Neste termo somente 3 países apresentam publicações (2 da Espanha e 3 dos Estados Unidos e 1 da Inglaterra), conforme tabela a seguir:

País	Autor de Correspondência	Autor(es)	Título
Espanha	Rodriguez-Cabello, JC;	Girotti, A Reguera, J Rodriguez-Cabello, JC Arias, FJ Alonso, M Testera, AM;	Design and bioproduction of a recombinant multi(bio)functional elastin-like protein polymer containing cell adhesion sequences for tissue engineering purposes;
	Alonso, AA	Alonso, AA Banga, JR PerezMartin, R	A complete dynamic model for the thermal processing of bioproducts in batch units and its application to controller design
EUA	Malone, MF	Pai, RA Doherty, MF Malone, MF	Design of reactive extraction systems for bioproduct recovery
	BURROWS, R	BURROWS, R	USING STATISTICAL EXPERIMENTAL-DESIGN FOR BIOPRODUCT DEVELOPMENT SAVINGS
	Anon	Anon	A better way to design - reactive extraction systems for bioproduct recovery
Inglaterra	Zhang, ZR Burton, S Lyddiatt, A	Zhang, ZR Burton, S Williams, S Thwaites, E Lyddiatt, A	Design and assembly of solid-phases for the effective recovery of nanoparticulate bioproducts in fluidised bed contactors

Para análise da area de conhecimento do CNPq, todos os artigos serão considerados, uma vez que não há predominância de autores.

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	3	-
Espanha	2	-
Inglaterra	1	-

4 Tema: Bioinformática

Foram identificados 996 artigos focados no tema Bioinformática. Três países se destacam com um número significativo de artigos: Estados Unidos, Inglaterra e Alemanha.

São apresentados a seguir, para cada país, o título, autor de correspondência e autor (ou rede de autores) das publicações:

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 2 artigos)	Gerstein, M	Luscombe, NM Greenbaum, D Gerstein, M;	What is bioinformatics? A proposed definition and overview of the field;
		Bertone, P Gerstein, M;	Integrative data mining: The new direction in bioinformatics;
		Gerstein, M Jansen, R;	The current excitement in bioinformatics - analysis of whole-genome expression data: how does it relate to protein structure and function?;
		Gerstein, M	E-publishing on the Web: Promises, pitfalls, and payoffs for bioinformatics
	Chiu, W	Chiu, W Baker, ML Jiang, W Zhou, ZH;	Deriving folds of macromolecular complexes through electron cryomicroscopy and bioinformatics approaches;
		Baker, ML Jiang, W Bowman, BR Zhou, ZH Quiocho, FA Rixon, FJ Chiu, W;	Architecture of the herpes simplex virus major capsid protein derived from structural bioinformatics;
		Zhou, ZH Baker, ML Jiang, W Dougherty, M Jakana, J Dong, G Lu, GY Chiu, W	Electron cryomicroscopy and bioinformatics suggest protein fold models for rice dwarf virus
	De Groot, AS	De Groot, AS Jesdale, B Martin, W Saint Aubin, C Sbai, H Bosma, A Lieberman, J Skowron, G Mansourati, F Mayer, KH;	Mapping cross-clade HIV-1 vaccine epitopes using a bioinformatics approach;
		Martin, W Sbai, H De Groot, AS;	Bioinformatics tools for identifying class I-restricted epitopes;
		De Groot, AS Sbai, H Martin, B Berzofsky, JA	Use of bioinformatics to predict MHC ligands and T-cell epitopes: Application to epitope-driven vaccine design
	Saier, MH	Saier, MH;	Answering fundamental questions in biology with bioinformatics;
		Hvorup, R Chang, AB Saier, MH;	Bioinformatic analyses of the bacterial L-ascorbate phosphotransferase system permease family;
		Minocha, R Studley, K Saier, MH	The urea transporter (UT) family: Bioinformatic analyses leading to structural, functional, and evolutionary predictions
EUA	Smaglik, P	Smaglik, P	Bioinformatics boom?;

País	Autor de Correspondência	Autor(es)	Título
(autores com mais de 2 artigos)			Seeking software: Bioinformatics could use better tools;
			Diverse bioinformatics-education offerings develop
Inglaterra (autores com mais de 2 artigos)	Stevens, R	Stevens, R Goble, C Horrocks, I Bechhofer, S;	OILing the way to machine understandable bioinformatics resources;
			Building a bioinformatics ontology using OIL;
		Stevens, R;	Ontology based document enrichment in bioinformatics;
		Stevens, R Goble, C Baker, P Brass, A;	A classification of tasks in bioinformatics;
		Stevens, R Baker, P Bechhofer, S Ng, G Jacoby, A Paton, NW Goble, CA Brass, A	TAMBIS: Transparent access to multiple bioinformatics information sources
	Attwood, TK	Gaulton, A Attwood, TK;	Bioinformatics approaches for the classification of G-protein-coupled receptors;
		Attwood, TK Miller, CJ;	Which craft is best in bioinformatics?;
		Attwood, TK	Genomics - The babel of bioinformatics
	Lio, P	Lio, P;	Statistical bioinformatic methods in microbial genome analysis;
			Wavelets in bioinformatics and computational biology: state of art and perspectives
		Lio, P Goldman, N	Phylogenomics and bioinformatics of SARS-CoV;
	Lopez, R	Harte, N Silventoinen, V Quevillon, E Robinson, S Kallio, K Fustero, X Patel, P Jokinen, P Lopez, R;	Public web-based services from the European Bioinformatics Institute;
		Lopez, R Robinson, S Kibria, A Harte, N Patel, G Harper, R Quevillon, E Silventoinen, V Kallio, K Jokinen, P;	The European Bioinformatics Institute web site: a new view;
		Lopez, R Silventoinen, V Robinson, S Kibria, A Gish, W	WU-Blast2 server at the European Bioinformatics Institute
	Alemanha (autores com mais de 1 artigo)	Casari, G	Casari, G deDaruvvar, A Sander, C Schneider, R;
Alemanha (autores com mais de 1 artigo)	Casari, G	CASARI, G ANDRADE, MA BORK, P BOYLE, J DARUVAR, A OUZOUNIS, C SCHNEIDER, R TAMAMES, J VALENCIA, A SANDER, C	Challenging times for bioinformatics
	Giegerich, R	Sczyrba, A Kruger, J Mersch, H Kurtz, S Giegerich, R;	RNA-related tools on the Bielefeld Bioinformatics Server;

País	Autor de Correspondência	Autor(es)	Título
		Giegerich, R	A systematic approach to dynamic programming in bioinformatics
	von der Lieth, CW	von der Lieth, CW Bohne-Lang, A Lohmann, KK Frank, M;	Bioinformatics for glycomics: Status, methods, requirements and perspectives;
		von der Lieth, CW Lang, E Kozar, T	Carbohydrates: Second-class citizens in biomedicine and in bioinformatics?

Apesar da liderança em número de artigos dos Estados Unidos, a Inglaterra é líder de representatividade de um mesmo autor (Stevens, R., com 5 artigos), conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	273	-
Inglaterra	93	Stevens, R
Alemanha	38	-

TERMOS da BIOINFORMÁTICA

Quanto aos termos sugeridos (pelos especialistas) sobre esse tema, a tabela a seguir mostra o número de artigos localizados:

TEMA	TERMOS	Nº artigos focados
Bioinformática	Aplicações para Genomas, proteomas e biodiversidade	47

4.1 Aplicações para Genomas e Proteomas e Biodiversidade

Com relação a este termo, apenas três países apresentam 3 ou mais artigos, sendo que a Inglaterra novamente se destaca em representatividade de um mesmo autor (Oliver, SG, com dois artigos).

País	Autor de Correspondência	Autor(es)	Título
EUA	Akay, M	Akay, M	Scanning the issue - Bioinformatics, part II: Genomics and proteomics engineering in medicine and biology
	Chan, DW	Li, JN Zhang, Z Rosenzweig, J Wang, YY Chan, DW	Proteomics and bioinformatics approaches for identification of serum biomarkers to detect breast cancer
	Daly, MB	Daly, MB Ozols, RF	The search for predictive patterns in ovarian cancer: Proteomics meets bioinformatics
	Demirev, PA	Demirev, PA Lin, JS Pineda, FJ Fenselau, C	Bioinformatics and mass spectrometry for microorganism identification: Proteome-wide post-translational modifications and database search algorithms for characterization of intact H-pylori
	Giometti, CS	Giometti, CS	Proteomics and bioinformatics
	Han, DK	Lundgren, DH Eng, J Wright, ME Han, DK	PROTEOME-3D: An interactive bioinformatics tool for large-scale data exploration and knowledge discovery
	Haoudi, A	Bensmail, H Haoudi, A	Postgenomics: Proteomics and bioinformatics in cancer research
	Thongboonkerd, V	Thongboonkerd, V Klein, JB	Practical bioinformatics for proteomics
	Turk, BE	Turk, BE Cantley, LC	Peptide libraries: at the crossroads of proteomics and bioinformatics
	White, CN	White, CN Chan, DW Zhang, Z	Bioinformatics strategies for proteomic profiling
Inglaterra	Oliver, SG	Sidhu, KS Sangvanich, P Brancia, FL Sullivan, AG Gaskell, SJ Wolkenhauer, O Oliver, SG Hubbard, SJ;	Bioinformatic assessment of mass spectrometric chemical derivatisation techniques for proteome database searching;
		Brancia, FL Butt, A Beynon, RJ Hubbard, SJ Gaskell, SJ Oliver, SG	A combination of chemical derivatisation and improved bioinformatic tools optimises protein identification for proteomics
Inglaterra	Apweiler, R	Pruess, M Apweiler, R	Bioinformatics resources for in silico proteome analysis

País	Autor de Correspondência	Autor(es)	Título
	Field, HI	Field, HI Fenyo, D Beavis, RC	RADARS, a bioinformatics solution that automates proteome mass spectral analysis, optimises protein identification, and archives data in a relational database
	Hubbard, SJ	Lester, PJ Hubbard, SJ	Comparative bioinformatic analysis of complete proteomes and protein parameters for cross-species identification in proteomics
	Kellam, P	Kellam, P	Post-genomic virology: the impact of bioinformatics, microarrays and proteomics on investigating host and pathogen interactions
Alemanha	Blueggel, M	Blueggel, M Chamrad, D Meyer, HE	Bioinformatics in proteomics
	Wiemer, JC	Wiemer, JC Prokudin, A	Bioinformatics in proteomics: application, terminology, and pitfalls
	Wilke, A	Wilke, A Ruckert, C Bartels, D Dondrup, M Goesmann, A Huser, AT Kespohl, S Linke, B Mahne, M McHardy, A Puhler, A Meyer, F	Bioinformatics support for high-throughput proteomics

Apesar da liderança em número de artigos dos Estados Unidos, a Inglaterra é líder de representatividade de um mesmo autor (Oliver, SG., com 2 artigos), conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	10	-
Inglaterra	6	Oliver, SG
Alemanha	3	-

5 Tema: Biorremediação

Foram identificados 1.044 artigos focados no tema Biorremediação, sendo que 3 países apresentam 5 ou mais artigos: Estados Unidos, Canadá e Inglaterra.

São apresentados a seguir, por país, e para autores com mais de 3 publicações, as seguintes informações dos artigos: autor de correspondência, autor (ou rede de autores) e título:

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 3 artigos)	Lovley, DR	Lovley, DR	Cleaning up with genomics: Applying molecular biology to bioremediation;
			Bioremediation - Anaerobes to the rescue
			Potential for anaerobic bioremediation of BTEX in petroleum-contaminated aquifers;
			Bioremediation of organic and metal contaminants with dissimilatory metal reduction;
		Anderson, RT Lovley, DR	Anaerobic bioremediation of benzene under sulfate-reducing conditions in a petroleum-contaminated aquifer
		Finneran, KT Anderson, RT Nevin, KP Lovley, DR	Potential for Bioremediation of uranium-contaminated aquifers with microbial U(VI) reduction
		Finneran, KT Housewright, ME Lovley, DR	Multiple influences of nitrate on uranium solubility during bioremediation of uranium-contaminated subsurface sediments
		Lovley, DR Coates, JD	Bioremediation of metal contamination
		Lovley, DR Lloyd, JR	Microbes with a mettle for bioremediation
		Nevin, KP Finneran, KT Lovley, DR	Microorganisms associated with uranium bioremediation in a high-salinity subsurface sediment
	Shelobolina, ES O'Neill, K Finneran, KT Hayes, LA Lovley, DR	Potential for in situ bioremediation of a low-pH, high-nitrate uranium-contaminated groundwater	
	Boopathy, R	Boopathy, R	Effect of food-grade surfactant on bioremediation of explosives-contaminated soil;
			Bioremediation of explosives contaminated soil;
Factors limiting bioremediation technologies			
EUA (autores com mais de	Boopathy, R	Boopathy, R Manning, J	Surfactant-enhanced bioremediation of soil contaminated with 2,4,6-trinitrotoluene in soil slurry reactors

País	Autor de Correspondência	Autor(es)	Título
3 artigos)		Boopathy, R Manning, J Kulpa, CF	A laboratory study of the bioremediation of 2,4,6-trinitrotoluene-contaminated soil using aerobic/anoxic soil slurry reactor
		Boopathy, R Widrig, DL Manning, JF	In situ bioremediation of explosives-contaminated soil: A soil column study
	Tabak, HH	Tabak, HH Govind, R	Protocol for determining bioavailability and biokinetics of organic pollutants in dispersed, compacted and intact soil systems to enhance in situ bioremediation;
			Bioavailability and biodegradation kinetics protocol for organic pollutant compounds to achieve environmentally acceptable endpoints during bioremediation
		Tabak, HH Govind, R Fu, CS Gao, C Pfanstiel, S	Protocol for determining bioavailability and biodegradation kinetics of toxic organic soil pollutants to enhance in situ bioremediation
		Tabak, HH Govind, R Fu, CS Yan, XS Gao, C Pfanstiel, S	Development of bioavailability and biokinetics determination methods for organic pollutants in soil to enhance in-situ and on-site bioremediation
		Tabak, HH Lazorchak, JM Lei, L Khodadoust, AP Antia, JE Bagchi, R Suidan, MT	Studies on bioremediation of polycyclic aromatic hydrocarbon-contaminated sediments: Bioavailability, biodegradability, and toxicity issues
		Utgikar, VP Harmon, SM Chaudhary, N Tabak, HH Govind, R Haines, JR	Inhibition of sulfate-reducing bacteria by metal sulfide formation in bioremediation of acid mine drainage
		PRINCE, RC	PRINCE, RC
	Bioremediation of marine oil spills		
	Prince, RC Bare, RE Garrett, RM Grossman, MJ Haith, CE Keim, LG Lee, K Holtom, GJ Lambert, P Sergy, GA Owens, EH Guenette, CC		Bioremediation of stranded oil on an Arctic shoreline
	Prince, RC Lessard, RR Clark, JR		Bioremediation of marine oil spills
	Prince, RC Varadaraj, R Fiocco, RJ Lessard, RR		Bioremediation as an oil spill response tool
	EUA (autores com mais de 3 artigos)	Atlas, RM	Atlas, RM
Petroleum biodegradation and oil spill bioremediation;			
Bioremediation of petroleum pollutants			

País	Autor de Correspondência	Autor(es)	Título	
		ATLAS, RM CERNIGLIA, CE	Bioremediation of petroleum pollutants - diversity and environmental aspects of hydrocarbon biodegradation	
		Cutright, TJ	CUTRIGHT, TJ	A feasible approach to the bioremediation of contaminated soil - from lab-scale to field-test
			CUTRIGHT, TJ LEE, SG	Bioremediation kinetics for pah contaminated soils
			CUTRIGHT, TJ LEE, SY	In-situ bioremediation of pah contaminated soil using mycobacterium sp
			Liebeg, EW Cutright, TJ	The investigation of enhanced bioremediation through the addition of macro and micro nutrients in a PAH contaminated soil
	Golueke, CG	Golueke, CG	Bioremediation: Principles and practice (3 volumes), vol I, Fundamentals and applications	
			Bioremediation: Principles and practice (3 volumes), vol II, Biodegradation technology developments	
			Bioremediation: Principles and practice (3 volumes), vol III, Bioremediation technologies	
			Biotechnology in industrial waste treatment and bioremediation	
	Canadá (autores com mais de 3 artigos)	Lollar, BS	Ahad, JME Lollar, BS Edwards, EA Slater, GF Sleep, BE	Carbon isotope fractionation during anaerobic biodegradation of toluene: Implications for intrinsic bioremediation
Lollar, BS Slater, GF Ahad, J Sleep, B Spivack, J Brennan, M MacKenzie, P			Contrasting carbon isotope fractionation during biodegradation of trichloroethylene and toluene: Implications for intrinsic bioremediation	
Lollar, BS Slater, GF Sleep, B Witt, M Klecka, GM Harkness, M Spivack, J			Stable carbon isotope evidence for intrinsic bioremediation of tetrachloroethene and trichloroethene at area 6, Dover Air Force Base	
Ward, JAM Ahad, JME Lacrampe-Couloume, G Slater, GF Edwards, EA Lollar, BS			Hydrogen isotope fractionation during methanogenic degradation of toluene: Potential for direct verification of bioremediation	
Inglaterra (autores com mais de 3 artigos)	Head, IM	Head, IM	Bioremediation: towards a credible technology	
		Head, IM Swannell, RPJ	Bioremediation of petroleum hydrocarbon contaminants in marine habitats	

País	Autor de Correspondência	Autor(es)	Título
		Roling, WFM de Brito, IRC Swannell, RPJ Head, IM	Response of archaeal communities in beach sediments to spilled oil and bioremediation
		Roling, WFM Milner, MG Jones, DM Fratepietro, F Swannell, RPJ Daniel, F Head, IM	Bacterial community dynamics and hydrocarbon degradation during a field-scale evaluation of bioremediation on a mudflat beach contaminated with buried oil
		Roling, WFM Milner, MG Jones, DM Lee, K Daniel, F Swannell, RJP Head, IM	Robust hydrocarbon degradation and dynamics of bacterial communities during nutrient-enhanced oil spill bioremediation
	Macaskie, LE	Macaskie, LE Basnakova, G	Microbially enhanced chemisorption of heavy metals: A method for the bioremediation of solutions containing long lived isotopes of neptunium and plutonium
		Macaskie, LE Yong, P Doyle, TC Roig, MG Diaz, M Manzano, T	Bioremediation of uranium-bearing wastewater: Biochemical and chemical factors influencing bioprocess application
		Thomas, RAP Beswick, AJ Basnakova, G Moller, R Macaskie, LE	Growth of naturally occurring microbial isolates in metal-citrate medium and bioremediation of metal-citrate wastes
		Yong, P Macaskie, LE	The role of sulfate as a competitive inhibitor of enzymatically-mediated heavy metal uptake by <i>Citrobacter</i> sp: implications in the bioremediation of acid mine drainage water using biogenic phosphate precipitant
	Swannell, RPJ	Swannell, RPJ Croft, BC Grant, AL Lee, K	Evaluation of bioremediation agents in beach microcosms
		SWANNELL, RPJ HEAD, IM	Oil-spills - bioremediation comes of age
		Swannell, RPJ Lee, K McDonagh, M	Field evaluations of marine oil spill bioremediation
		Swannell, RPJ Mitchell, D Lethbridge, G Jones, D Heath, D Hagley, M Jones, M Petch, S Milne, R Croxford, R Lee, K	A field demonstration of the efficacy of bioremediation to treat oiled shorelines following the Sea Empress incident.

Os Estados Unidos, além de apresentar liderança em número de artigos, também se destaca pelo autor mais representativo. Lovely, D., com 11 publicações, conforme tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	292	Lovley, DR
Canadá	57	-
Inglaterra	50	-

TERMOS do TEMA BIORREMEDIAÇÃO

Quanto aos termos sugeridos (pelos especialistas) sobre esse tema, a tabela a seguir mostra o número de artigos localizados. Cabe ressaltar que o termo “Inteligência” não foi objeto de artigos na Web of Science no período considerado.

TEMAS	TERMOS	Nº artigos focados
Biorremediação	Meio ambiente	28
	Microorganismos	26

5.1 Meio Ambiente

No termo “meio ambiente”, 3 países apresentam 2 ou mais artigos, e a maior representatividade de autor é do Canadá (Lee, K., com 2 publicações):

País	Autor de Correspondência	Autor(es)	Título
EUA	ATLAS, RM	ATLAS, RM CERNIGLIA, CE	Bioremediation of petroleum pollutants - diversity and environmental aspects of hydrocarbon biodegradation
	BRADLEY, PM	BRADLEY, PM CHAPELLE, FH	Rapid toluene mineralization by aquifer microorganisms at adak, alaska - implications for intrinsic bioremediation in cold environments
	Coates, JD	Coates, JD Anderson, RT	Emerging techniques for anaerobic bioremediation of contaminated environments
	Daly, MJ	Brim, H Venkateswaran, A Kostandarithes, HM Fredrickson, JK Daly, MJ	Engineering Deinococcus geothermalis for bioremediation of high-temperature radioactive waste environments
	FRANCIS, AJ	FRANCIS, AJ	Microbial transformations of radioactive-wastes and environmental restoration through bioremediation
	Galperin, MY	Galperin, MY Baker, AJM	Environmental biotechnology - From biofouling to bioremediation: the good, the bad and the vague - Editorial overview
	Hooker, BS	Hooker, BS Skeen, RS	Intrinsic bioremediation: An environmental restoration technology
	Keasling, JD	Keasling, JD Bang, SW	Recombinant DNA techniques for bioremediation and environmentally-friendly synthesis
	PRINCE, RC	PRINCE, RC	Petroleum spill bioremediation in marine environments

País	Autor de Correspondência	Autor(es)	Título
EUA	Tabak, HH	Tabak, HH Govind, R	Bioavailability and biodegradation kinetics protocol for organic pollutant compounds to achieve environmentally acceptable endpoints during bioremediation
Canadá	Lee, K	Lee, K Merlin, FX;	Bioremediation of oil on shoreline environments: development of techniques and guidelines;
		Lee, K de Mora, S	In situ bioremediation strategies for oiled shoreline environments
Índia	Jain, RK	Pandey, G Jain, RK	Bacterial chemotaxis toward environmental pollutants: Role in bioremediation
	Samanta, SK	Samanta, SK Singh, OV Jain, RK	Polycyclic aromatic hydrocarbons: environmental pollution and bioremediation

Apesar da liderança em número de artigos dos Estados Unidos, o Canadá é líder de representatividade de um mesmo autor (Lee, K., com 2 artigos), conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	10	-
Canadá	2	Lee, K
Índia	2	-

5.2 Microorganismos

Três países se destacam com 3 ou mais artigos: Estados Unidos, Japão e Áustria.

País	Autor de Correspondência	Autor(es)	Título
EUA	Sayler, GS	Sayler, GS Ripp, S;	Field applications of genetically engineered microorganisms for bioremediation processes;
		Ripp, S Nivens, DE Ahn, Y Werner, C Jarrell, J Easter, JP Cox, CD Burlage, RS Sayler, GS	Controlled field release of a bioluminescent genetically engineered microorganism for bioremediation process monitoring and control
	Banaszak, JE	Banaszak, JE Rittmann, BE Reed, DT	Subsurface interactions of actinide species and microorganisms: Implications for the bioremediation of actinide-organic mixtures
	BRADLEY, PM	BRADLEY, PM CHAPELLE, FH	Rapid toluene mineralization by aquifer microorganisms at adak, alaska - implications for intrinsic bioremediation in cold environments
	Burlage, RS	Ford, CZ Sayler, GS Burlage, RS	Containment of a genetically engineered microorganism during a field bioremediation application
	Lovley, DR	Nevin, KP Finneran, KT Lovley, DR	Microorganisms associated with uranium bioremediation in a high-salinity subsurface sediment
	SCHMIDT, SK	SCHMIDT, SK COLORES, GM HESS, TF RADEHAUS, PM	A simple method for quantifying activity and survival of microorganisms involved in bioremediation processes
Japão	Watanabe, K	Watanabe, K Futamata, H Harayama, S;	Understanding the diversity in catabolic potential of microorganisms for the development of bioremediation strategies;
		Watanabe, K	Microorganisms relevant to bioremediation
	Cho, BH	Cho, BH Chino, H Tsuji, H Kunito, T Makishima, H Uchida, H Matsumoto, S Oyaizu, H	Analysis of oil components and hydrocarbon-utilizing microorganisms during laboratory-scale bioremediation of oil-contaminated soil of Kuwait
	NAGASE, H	NAGASE, H INTHORN, D MIYAMOTO, K	Use of photosynthetic microorganisms in bioremediation
Austria	Margesin, R	Margesin, R;	Potential of cold-adapted microorganisms for bioremediation of oil-polluted Alpine soils;
		Margesin, R Schinner, F	Laboratory bioremediation experiments with soil from a diesel-oil contaminated site - Significant role of cold-adapted microorganisms and fertilizers
	Pumpel, T	Pumpel, T Paknikar, KM	Bioremediation technologies for metal-containing wastewaters using metabolically active microorganisms

Os autores a serem considerados para a indexação da área de conhecimento CNPq são apresentados na tabela abaixo:

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
EUA	7	Sayler, GS
Japão	4	Watanabe, K
Áustria	3	Margesin, R

6 Tema: Bioterrorismo

Foram identificados 926 artigos focados no tema Bioterrorismo, sendo que apenas os Estados Unidos se destacam em número de publicações.

São apresentados abaixo, por país, as seguintes informações dos artigos de autores com 4 ou mais publicações: autor de correspondência, autor (ou rede de autores) e título:

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 3 artigos)	Cohen, HW	Cohen, HW Gould, RM Sidel, VW	The pitfalls of bioterrorism preparedness: the anthrax and smallpox experiences;
			Bioterrorism "preparedness": Dual use or poor excuse?;
			Bioterrorism initiatives: Public health support - Response;
		Bioterrorism initiatives: Public health in reverse?	
		Cohen, HW Sidel, VW Gould, RM	Preparedness for bioterrorism?;
			Prescriptions on bioterrorism have it backwards
	Cohen, HW Eolis, SL Gould, RM Sidel, VW	Hyping bioterrorism obscures real concerns	
	Atlas, RM	Atlas, RM	Bioterrorism and biodefence research: changing the focus of microbiology
			Bioterrorism before and after September 11
			Bioterrorism: From threat to reality
			Combating the threat of biowarfare and bioterrorism
			The medical threat of biological weapons
			The threat of bioterrorism returns the fear of smallpox - Commentary
	Malecki, J	Malecki, J Wiersma, S Bresnitz, E DiFerdinando, G Lurie, P Nalluswami, K Hathcock, L Siegel, L Adams, S Walks, I Davies-Coles, J Richardson, M Brechner, R Stroube, R Burans, J CA CDC	Investigating of bioterrorism-related anthrax, 2001 (Reprinted from MMWR, vol 50, pg 1008-1010, 2001);

País	Autor de Correspondência	Autor(es)	Título	
EUA (autores com mais de 3 artigos)	Malecki, J	Malecki, J Wiersma, S Cahill, K Grossman, M Hochman, H Gurtman, A Bresnitz, E DiFerdinando, G Lurie, P Nalluswami, K Siegel, L Adams, S Walks, I Davies-Coles, J Brechner, R Peterson, E Frank, D Bresoff-Matcha, S Chiriboga, C Eisold, J Martin, G	Update: Investigation of bioterrorism-related anthrax and interim guidelines for exposure management and antimicrobial therapy, October 2001 (Reprinted from MMWR, vol 50, pg 909-919, 2001)	
		Malecki, J Wiersma, S Cahill, T Grossman, M Hochman, H Tapper, M Pomeranz, M Friedman-Kien, A Gurtman, A Bresnitz, E DiFerdinando, G Lurie, P Nalluswami, K Frank, D Siegel, L Adams, S Walks, I Davies-Coles, J Chiriboga, C Brechner, R Peterson, E Bresoff-M	Investigation of bioterrorism-related anthrax and interim guidelines for clinical evaluation of persons with possible anthrax (Reprinted from MMWR, vol 50, pg 941-948, 2001)	
		Malecki, J Wiersma, S Labinson, R Kamal, L Bresnitz, E Diferdinando, G Lurie, P Nalluswami, K Hathcock, L Siegel, L Adams, S Walks, I Davies-Coles, J Richardson, M Brechner, R Stroube, R CA CDC	Investigation of bioterrorism-related anthrax and adverse events from antimicrobial prophylaxis (Reprinted from MMWR, vol 50, pg 973-76, 2001)	
	Annas, GJ	Annas, GJ	Bioterrorism and civil liberties - Reply	Bioterrorism and Public Health Law
				Bioterrorism, public health, and civil liberties
				Perspective - Bioterrorism, public health, and human rights
	Henderson, DA	Henderson, DA	Bioterrorism;	Bioterrorism as a public health threat;
			Biological terrorism - The looming threat of bioterrorism	
		Henderson, DA Inglesby, TV Bartlett, JG Ascher, MS Eitzen, E Jahrling, PB Hauer, J Layton, M McDade, J Osterholm, MT O'Toole, T Parker, G Perl, T Russell, PK Tonat, K CA Working Grp Civilian Biodefense	Smallpox as a biological weapon - Medical and public health management	

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 3 artigos)	Inglesby, TV	Inglesby, TV Dennis, DT Henderson, DA Bartlett, JG Ascher, MS Eitzen, E Fine, AD Friedlander, AM Hauer, J Koerner, JF Layton, M McDade, J Osterholm, MT O'Toole, T Parker, G Perl, TM Russell, PK Schoch-Spana, M Tonat, K CA Working Grp Civilian Biodefense	Plague as a biological weapon - Medical and public health management
		Inglesby, TV Henderson, DA Bartlett, JG Ascher, MS Eitzen, E Friedlander, AM Hauer, J McDade, J Osterholm, MT O'Toole, T Parker, G Perl, TM Russell, PK Tonat, K CA Working Grp Civilian Biodefense	Anthrax as a biological weapon - Medical and public health management
		Inglesby, TV O'Toole, T Henderson, DA	Preventing the use of biological weapons: Improving response should prevention fail
		Inglesby, TV O'Toole, T Henderson, DA Bartlett, JG Ascher, MS Eitzen, E Friedlander, AM Gerberding, J Hauer, J Hughes, J McDade, J Osterholm, MT Parker, G Perl, TM Russell, PK Tonat, K CA Working Grp Civilian Biodef	Anthrax as a biological weapon, 2002 - Updated recommendations for management
	O'Toole, T	O'Toole, T	The problem of biological weapons: Next steps for the nation;
		O'Toole, T	Emerging illness and bioterrorism: Implications for public health
	Tucker, JB	Tucker, JB	Facing the biological weapons threat
			Facing the biological weapons threat - Reply;
	Tucker, JB	Tucker, JB	Historical trends related to bioterrorism: An empirical analysis
		Tucker, JB	Putting teeth in the biological weapons ban
Tucker, JB		Putting teeth in the Biological Weapons Convention	
Tucker, JB		The biological weapons threat	
Wechsler, J	Wechsler, J	Biotechnology in the limelight: the year ahead - Continued concerns about bioterrorism will shape legislative and regulatory initiatives affecting biotech manufacturers	
EUA (autores com	Wechsler, J	Wechsler, J	Safety, bioterrorism, research: Top White House priorities

País	Autor de Correspondência	Autor(es)	Título
mais de 3 artigos)			Vaccine shortages put spotlight on production - Bioterrorism and common infections create challenges for manufacturers
			Washington seeks new therapies to combat bioterrorism, cancer, obesity
	Zilinskas, RA	Zilinskas, RA	Bioethics and biological weapons
			Detecting and deterring biological weapons in iraq - the role of aerial surveillance
			Iraq's biological weapons - The past as future?
			Symposium of united-nations biological weapons inspectors - implications of the iraqi experience for biological arms-control

Dentre os autores apresentados, se destaca Cohen, H, com 7 artigos, conforme tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	454	Cohen, HW

TERMOS de BIOTERRORISMO

Apenas um dos termos ligados ao bioterrorismo apresentou um artigo, legislação:

TEMA	TERMOS	Nº artigos focados
Bioterrorismo	Legislação	1

6.1 Legislação

Este termo apresenta apenas um artigo, dos Estados Unidos, cujo título e autor(es) são mostrados a seguir:

País	Autor de Correspondência	Autor(es)	Título
EUA	Hendricks, JB	Hendricks, JB	Managing biohazards in the research and clinical laboratory: Impact of recently enacted bioterrorism legislation

7 Tema: Certificação de qualidade biológica

Com esta terminologia, foi identificado apenas 1 artigo na Web of Science focado no tema “Certificação de qualidade biológica”, no período considerado. O país, título e autor(es) do artigo são apresentados a seguir:

País	Autor de Correspondência	Autor(es)	Título
Canada	McSheehy, S	McSheehy, S Szpunar, J Morabito, R Quevauviller, P	The speciation of arsenic in biological tissues and the certification of reference materials for quality control

Não foram identificadas publicações para os termos “Coleções certificadas”, “Qualidade Industrial” e “Microorganismos” neste Tema.

8 Tema: Defesa Agropecuária

Este tema não apresenta artigos focados na base de dados Web of Science.

TERMO do TEMA AGROPECUÁRIA

Apenas o termo “Sistemas efetivos de monitoramento” foi objeto de publicações, conforme tabela abaixo:

TEMAS	TERMOS	Nº artigos focados
Defesa Agropecuária	Sistemas Efetivos de Monitoramento	193

8.1 Sistemas Efetivos de Monitoramento

Há 9 países com 7 ou mais artigos conforme tabela a seguir, sendo que Estados Unidos, Canadá, Japão, Holanda e Índia apresentam representatividade de autores com 2 artigos.

País	Autor de Correspondência	Autor(es)	Título
EUA	Eigenberg, RA	Eigenberg, RA Hahn, GL Nienaber, JA Brown-Brandl, TM Spiers, DE;	Development of a new respiration rate monitor for cattle;
		Eigenberg, RA Doran, JW Nienaber, JA Ferguson, RB Woodbury, BL	Electrical conductivity monitoring of soil condition and available N with animal manure and a cover crop
	Losinger, WC	Losinger, WC Garber, LP Hill, GW Dornseif, SE Rodriguez, JM Frye, WB;	Design and implementation of the United States National Animal Health Monitoring System 1994-95 cattle on feed evaluation, and an evaluation of the impact of response biases;
		Losinger, WC	Issues concerning Mexican cattle on feedlots in the United States as reported in the United States National Animal Health Monitoring System 1994-1995 cattle on feed evaluation
	Ahearn, SC	Ahearn, SC deRooy, C	Monitoring the effects of <i>Dracontuliasis</i> remediation on agricultural productivity using satellite data
	Benkobi, L	Benkobi, L Uresk, DW Schenbeck, G King, RM	Protocol for monitoring standing crop in grasslands using visual obstruction
	BLACKMER, TM	BLACKMER, TM SCHEPERS, JS	Techniques for monitoring crop nitrogen status in corn
EUA	Congalton, RG	Congalton, RG Balogh, M Bell, C Green, K Milliken, JA Ottman, R	Mapping and monitoring agricultural crops and other land cover in the Lower Colorado River Basin

País	Autor de Correspondência	Autor(es)	Título
	EDAN, Y	EDAN, Y ENGEL, BA MILES, GE	Intelligent control-system simulation of an agricultural robot
	Fenske, RA	Loewenherz, C Fenske, RA Simcox, NJ Bellamy, G Kalman, D	Biological monitoring of organophosphorus pesticide exposure among children of agricultural workers in central Washington State
	Fielding, DJ	Fielding, DJ	Windowpane traps as a method of monitoring grasshopper (Orthoptera : Acrididae) populations in crops
	HARTZ, TK	HARTZ, TK SMITH, RF LESTRANGE, M SCHULBACH, KF	On-farm monitoring of soil and crop nitrogen status by nitrate-selective electrode
	Lu, CS	Koch, D Lu, CS Fisker- Andersen, J Jolley, L Fenske, RA	Temporal association of children's pesticide exposure and agricultural spraying: Report of a longitudinal biological monitoring study
	Moran, MS	Moran, MS Hymer, DC Qi, JG Kerr, Y	Comparison of ERS-2 SAR and Landsat TM imagery for monitoring agricultural crop and soil conditions
	Neher, DA	Neher, DA Campbell, CL	Sampling for regional monitoring of nematode communities in agricultural soils
	Nickson, TE	Nickson, TE Head, GP	Environmental monitoring of genetically modified crops
	Norikane, J	Norikane, J Goto, E Kurata, K Takakura, T	A new relative referencing method for crop monitoring using chlorophyll fluorescence
	Nusser, SM	Nusser, SM Clark, WR Wang, JY Bogenschutz, TR	Combining data from state and national monitoring surveys to assess large-scale impacts of agricultural policy
	Parsons, KC	Parsons, KC Matz, AC Hooper, MJ Pokras, MA	Monitoring wading bird exposure to agricultural chemicals using serum cholinesterase activity
	PaxLenney, M	PaxLenney, M Woodcock, CE	Monitoring agricultural lands in Egypt with multitemporal Landsat TM imagery: How many images are needed?
	Rumsey, TS	Rumsey, TS Kahl, S Elsasser, TH	Field method for monitoring blood glucose in beef cattle
	Taylor, RK	Taylor, RK Kluitenberg, GJ Schrock, AD Zhang, N Schmidt, JP Havlin, JL	Using yield monitor data to determine spatial crop production potential
	Turner, LW	Turner, LW Udal, MC Larson, BT Shearer, SA	Monitoring cattle behavior and pasture use with GPS and GIS
	Venette, RC	Venette, RC Hutchison, WD Andow, DA	An in-field screen for early detection and monitoring of insect resistance to <i>Bacillus thuringiensis</i> in transgenic crops
EUA	Windham, GC	Windham, GC Titenko- Holland, N Osorio, AM Gettner, S Reinisch, F Haas, R Smith, M	Genetic monitoring of malathion-exposed agricultural workers

País	Autor de Correspondência	Autor(es)	Título
Canadá	Cloutis, EA	Cloutis, EA Connery, DR Major, DJ Dover, FJ;	Agricultural crop condition monitoring using airborne C-band synthetic aperture radar in southern Alberta;
		Cloutis, EA Connery, DR Dover, FJ	Agricultural crop monitoring using airborne multi-spectral imagery and C-band synthetic aperture radar
	Ehret, DL	Ehret, DL Vanel, F Bowen, P Helmer, T Frey, B Usher, K;	Demonstration of nutrient concentration effects on pineapple sage with the aid of automated crop monitoring;
		Ehret, DL Lau, A Bittman, S Lin, W Shelford, T	Automated monitoring of greenhouse crops
	McAllister, TA	Schwartzkopf-Genswein, KS Huisma, C McAllister, TA;	Validation of a radio frequency identification system for monitoring the feeding patterns of feedlot cattle?;
		Gibb, DJ McAllister, TA Huisma, C Wiedmeier, RD	Bunk attendance of feedlot cattle monitored with radio frequency technology
	Wood, D	Wood, D McNairn, H Brown, RJ Dixon, R	The effect of dew on the use of RADARSAT-1 for crop monitoring - Choosing between ascending and descending orbits;
		Wood, D McNairn, H Brown, RJ Dixon, R	The effect of dew on the use of RADARSAT-1 for crop monitoring - Choosing between ascending and descending orbits (vol 80, pg 241, 2002)
	Geishauser, T	Geishauser, T	Prevention and monitoring of displaced abomasum in dairy cattle
	Hall, KJ	McLeay, MJ Hall, KJ	Monitoring agricultural drainage ditches and the receiving water (Nicomekl River, Surrey, BC) for toxicity to Ceriodaphnia dubia and probable cause due to organophosphate contamination
	Jewett, TJ	Thevenard, D Zhang, Y Jewett, TJ Shipp, JL	Monitoring and modeling of light penetration into double-row greenhouse crops
	McCaughey, WP	Mathew, SR McCaughey, WP Kennedy, AD Lewis, NJ Crow, GH	Electronic monitoring of mounting behavior in beef cattle on pasture
	Rudolph, DL	Rudolph, DL Barry, DAJ Goss, MJ	Contamination in Ontario farmstead domestic wells and its association with agriculture: 2. Results from multilevel monitoring well installations
Schwartzkopf-Genswein, KS	Schwartzkopf-Genswein, KS Silasi, R McAllister, TA	Use of remote bunk monitoring to record effects of breed, feeding regime and weather on feeding behaviour and growth performance of cattle	
Van Donkersgoed, J	Van Donkersgoed, J Dixon, S VanderKop, M	Monitoring injection site lesions in Canadian yearling cattle and cull cows and bulls: Spring 1998	
Canadá	Waldner, C	Waldner, C	Monitoring beef cattle productivity as a measure of environmental health
	Waterer, D	Waterer, D	Petiole sap NO ₃ -N testing as a method for monitoring nitrogen nutrition of potato crops

País	Autor de Correspondência	Autor(es)	Título
Inglaterra	Brown, CD	Brown, CD Dubus, IG Fogg, P Spirlet, M Gustin, C	Exposure to sulfosulfuron in agricultural drainage ditches: field monitoring and scenario-based modelling
	ElliottMartin, RJ	ElliottMartin, RJ Mottram, TT Gardner, JW Hobbs, PJ Bartlett, PN	Preliminary investigation of breath sampling as a monitor of health in dairy cattle
	Farrington, J	Farrington, J Thirtle, C Henderson, S	Methodologies for monitoring and evaluating agricultural and natural resources research
	Ghinelli, BMG	Ghinelli, BMG Bennett, JC	Feasibility of employing artificial neural networks for emergent crop monitoring in SAR systems
	Hill, B	Hill, B	Monitoring incomes of agricultural households within the EU's information system - New needs and new methods
	Marchant, BP	Marchant, BP Scarlett, AJ Spencer, DS Semple, DA Marchant, JA	Using acoustic emissions to monitor crop throughput of a large square baler
	Prest, KB	Prest, KB	Monitoring and evaluating agricultural research: A sourcebook - Horton,D, Ballantyre,P, Peterson,W, Urike,B, Gapasin,D, Sheridan,K
	RIELLY, CD	RIELLY, CD SMITH, DLO LINDLEY, JA NIRANJAN, K PHILLIPS, VR	Mixing processes for agricultural and food materials .4. Assessment and monitoring of mixing systems
	Stoate, C	Stoate, C Parish, D	Crops grown on set-aside land bring wild birds back to the fields - Monitoring is under way, and results so far are promising.
	THIRTLE, C	THIRTLE, C	Monitoring and evaluating agricultural-research - a sourcebook - horton,d, ballantyne,p, peterson,w, uribe,b, gapasin,d, sheridan,k
	Thorpe, GHG	Sawcer, KE Bodley-Tickell, AT Kitchen, SE Sturdee, AP Thorpe, GHG	Enhanced chemiluminescence cannot predict the presence of Cryptosporidium parvum when applied to water-quality monitoring in an agricultural environment
Ward, WR	Ward, WR Ribadu, AY Harvey, D Dobson, H	Ultrasound and hormone profiles to monitor follicular activity in cattle after treatment with high doses of progesterone and oestradiol	
Alemanha	Gleixner, A	Gleixner, A Meyer, HHD	Non-invasive monitoring of endocrine function by analysis of progesterone, testosterone and estradiol in hair of adult cattle
	Horner, G	Boeker, P Horner, G Rosler, S	Monolithic sensor array based on a quartz microbalance transducer with enhanced sensitivity for monitoring agricultural emissions
Alemanha	Hunniger, F	Hunniger, F Staufenbiel, R Pabst, K	Application of milk acetone determination in the monitoring of cattle herds
	Kamp, T	Kamp, T Steindl, H Munch, JC	Monitoring trace gas fluxes (N ₂ O, CH ₄) from different soils under the same climatic conditions and the same agricultural management

País	Autor de Correspondência	Autor(es)	Título
	Maier, J	Maier, J Burcky, K Kohler, R	Leaf-disease monitoring and warning of growers in the South-German sugarbeet crop
	Moennig, V	Eicken, K Frey, HR Grummer, B Moennig, V Liess, B	Epidemiological long term investigations and monitoring for the control of BVD virus infections in a Northwestern German cattle holding
	Schlecht, E	Schlecht, E Hulsebusch, C Mahler, F Becker, K	The use of differentially corrected global positioning system to monitor activities of cattle at pasture
	Schlenzig, A	Schlenzig, A Habermeyer, J Zinkernagel, V	Monitoring of epidemic development of <i>Phytophthora infestans</i> in potato crops on the basis of sporangia movement
	Schmullius, CC	Schmullius, CC	Monitoring Siberian forests and agriculture with the ERS-1 windscatterometer
	Spangenberg, A	Spangenberg, A Hofmann, F Kirchner, M	Determining the agricultural ammonia immission using bark bio-monitoring: comparison with passive sampler measurements
	Staufenbiel, R	Bender, S Gelfert, CC Staufenbiel, R	Use of urine samples for monitoring acid-base-equilibrium in herd health management of dairy cattle herds
	Wild, K	Wild, K Auernhammer, H	A weighing system for local yield monitoring of forage crops in round balers
Austrália	Abuzar, M	Abuzar, M McAllister, A Morris, M	Classification of seasonal images for monitoring irrigated crops in a salinity-affected area of Australia
	BOAG, S	BOAG, S WHITE, DH HOWDEN, SM	Monitoring and reducing greenhouse-gas emissions from agricultural, forestry and other human activities
	deBruyn, LAL	deBruyn, LAL	The status of soil macrofauna as indicators of soil health to monitor the sustainability of Australian agricultural soils
	Foale, MA	Foale, MA Probert, ME Carberry, PS Lack, D Yeates, S Brimblecombe, D Shaw, R Crocker, M	Participatory research in dryland cropping systems - monitoring and simulation of soil water and nitrogen in farmers' paddocks in Central Queensland
	Hodgson, GA	Hodgson, GA Bartle, GA Silberstein, RP Hatton, TJ Ward, BH	Measuring and monitoring the effects of agroforestry and drainage in the 'Ucarro' sub-catchment
	McBratney, AB	Pringle, MJ McBratney, AB Whelan, BM Taylor, JA	A preliminary approach to assessing the opportunity for site-specific crop management in a field, using yield monitor data
Austrália	McVicar, TR	McVicar, TR Zhang, GL Bradford, AS Wang, HX Dawes, WR Zhang, L Li, LT	Monitoring regional agricultural water use efficiency for Hebei Province on the North China Plain
	Mensah, RK	Mensah, RK	Yellow traps can be used to monitor populations of <i>Coccinella transversalis</i> (F.) and <i>Adalia bipunctata</i> (L.) (Coleoptera : Coccinellidae) in cotton crops

País	Autor de Correspondência	Autor(es)	Título
	Robertson, MJ	Robertson, MJ Carberry, PS Lucy, M	Evaluation of a new cropping option using a participatory approach with on-farm monitoring and simulation: a case study of spring-sown mungbeans
	SAWYER, GJ	SAWYER, GJ BROADBENT, PJ DOLMAN, DF	Ultrasound-monitored ovarian responses in normal and superovulated cattle given exogenous progesterone at different stages of the estrous-cycle
	Swain, DL	Swain, DL Wilson, LA Dickinson, J	Evaluation of an active transponder system to monitor spatial and temporal location of cattle within patches of a grazed sward
Japão	Oida, A	Lee, J Yamazaki, M Oida, A Nakashima, H Shimizu, H;	Electro-hydraulic tillage depth control system for rotary implements mounted on agricultural tractor Design and response experiments of control system;
		Lee, JY Yamazaki, M Oida, A Nakashima, H Shimizu, H	Field performance of proposed foresight tillage depth control system for rotary implements mounted on an agricultural tractor
	Akiyama, T	Akiyama, T Inoue, Y Shibayama, M Awaya, Y Tanaka, N	Monitoring and predicting crop growth and analysing agricultural ecosystems by remote sensing
	Akiyama, Y	Akiyama, Y Yoshioka, N Tsuji, M	Pesticide residues in agricultural products monitored in Hyogo Prefecture, Japan, FYs 1995-1999
	Esaki, H	Esaki, H Morioka, A Ishihara, K Kojima, A Shiroki, S Tamura, Y Takahashi, T	Antimicrobial susceptibility of Salmonella isolated from cattle, swine and poultry (2001-2002): report from the Japanese Veterinary Antimicrobial Resistance Monitoring Program
	Inoue, Y	Inoue, Y Morinaga, S Tomita, A	A blimp-based remote sensing system for low-altitude monitoring of plant variables: a preliminary experiment for agricultural and ecological applications
	KUROSU, T	KUROSU, T FUJITA, M CHIBA, K	Monitoring of rice crop growth from space using the ers-1 c-band sar
	Mukai, F	Honda, T Nomura, T Yamaguchi, Y Mukai, F	Monitoring of genetic diversity in the Japanese Black cattle population by the use of pedigree information
	Sato, S	Sato, S Tateno, K Kobayashi, R Sakamoto, K	Cultural control systems of naturalized weeds in forage crop fields
Japão	Yamada, K	Yamada, K Torimura, M Kurata, S Kamagata, Y Kanagawa, T Kano, K Ikeda, T Yokomaku, T Kurane, R	Application of capillary electrophoresis to monitor populations of Cellulomonas cartae KYM-7 and Agrobacterium tumefaciens KYM-8 in mixed culture
Holanda	Clevers, JGPW	CLEVERS, JGPW BUKER, C VANLEEUEWEN, HJC BOUMAN, BAM;	A framework for monitoring crop growth by combining directional and spectral remote-sensing information;

País	Autor de Correspondência	Autor(es)	Título
		Clevers, JGPW vanLeeuwen, HJC	Combined use of optical and microwave remote sensing data for crop growth monitoring
	Smaling, EMA	Smaling, EMA Fresco, LO deJager, A;	Classifying, monitoring and improving soil nutrient stocks and flows in African agriculture;
		SMALING, EMA FRESCO, LO	A decision-support model for monitoring nutrient balances under agricultural land-use (nutmon)
	Emmerzaal, A	Emmerzaal, A de Wit, JJ Dijkstra, T Bakker, D van Ziiderveld, FG	The Dutch Brucella abortus monitoring programme for cattle: the impact of false-positive serological reactions and comparison of serological tests
	Garcia, A	Garcia, A van der Weijden, GC Colenbrander, B Bevers, MM	Monitoring follicular development in cattle by real-time ultrasonography: a review
	Hendriks, AJ	Hendriks, AJ Wever, H Olie, K vandeGuchte, K Liem, AKD vanOosterom, RAA vanZorge, J	Monitoring and estimating concentrations of polychlorinated biphenyls, dioxins, and furans in cattle milk and soils of Rhine-Delta floodplains
	Saris, F	Saris, F Groot, H Hagemeijer, W VanDijk, A	Monitoring the Dutch agricultural bird community (a choice between a data-death because of the fear of inadequate data and a practical monitoring programme)
	van Eerd, MM	van Eerd, MM Fong, PKN	The monitoring of nitrogen surpluses from agriculture
Índia	Rao, AS	Rao, AS Joshi, NL Saxton, KE;	Monitoring of productivity and crop water stress in pearl millet using the SPAW model;
		Rao, CS Rao, AS Swarup, A Bansal, SK Rajagopal, V	Monitoring the changes in soil potassium by extraction procedures and electroultrafiltration (EUF) in a Tropaequept under twenty years of rice-rice cropping
	Chatterjee, C	Dube, BK Sinha, P Chatterjee, C	Crop plants as biological tools for assessing and monitoring agricultural lands inundated with sewage and sludge
	Kumar, B	Kumar, B Pachauri, SR	Plasma lipids and cholesterol profiles of dairy cattle for monitoring herd health status in the central Himalayas
Índia	Kumar, S	Kumar, S Sangwan, DC Bhatia, SK Singh, S	Applicability of in vitro gas monitoring technique for tropical feeds degraded in batch and continuous cultured fungi from cattle and buffalo
	Majumdar, D	Majumdar, D	Monitoring and mitigation of nitrous oxide emissions from agricultural fields of India: Relevance, problems, research and policy needs
	MANAVALAN, P	MANAVALAN, P KESAVASAMY, K ADIGA, S	Irrigated crops monitoring through seasons using digital change detection analysis of irs-liss-2 data

País	Autor de Correspondência	Autor(es)	Título
Itália	Genovese, G	Genovese, G Vignolles, C Negre, T Passera, G	A methodology for a combined use of normalised difference vegetation index and CORINE land cover data for crop yield monitoring and forecasting. A case study on Spain
	Giberti, A	Giberti, A Carotta, MC Guidi, V Malagu, C Martinelli, G Piga, M Vendemiati, B	Monitoring of ethylene for agro-alimentary applications and compensation of humidity effects
	Gori, A	Serraino, A Marchetti, G Sanguinetti, V Rossi, MC Zanoni, RC Catozzi, L Bandera, A Dini, W Mignone, W Franzetti, F Gori, A	Monitoring of transmission of tuberculosis between wild boars and cattle: Genotypical analysis of strains by molecular epidemiology techniques
	MASELLI, F	MASELLI, F CONESE, C PETKOV, L GILABERT, MA	Environmental monitoring and crop forecasting in the sahel through the use of noaa ndvi data - a case-study - Niger 1986-89
	Ranalli, G	Ranalli, G Bottura, G Taddei, P Marchetti, R Sorlini, C	Composting of solid and sludge residues from agricultural and food industries. Bioindicators of monitoring and compost maturity
	Savaresi, SM	Savaresi, SM Taroni, FL Previdi, F Bittanti, S	Control system design on a power-split CVT for high-power agricultural tractors
	Steduto, P	Steduto, P Cetinkoku, O Albrizio, R Kanber, R	Automated closed-system canopy-chamber for continuous field-crop monitoring of CO ₂ and H ₂ O fluxes

Para a indexação das Áreas de Conhecimento do CNPq, foram considerados os autores mais representativos da amostra, com 2 artigos, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
EUA	25	Eigenberg, RA
		Losinger, WC
Canadá	17	Cloutis, EA
		Ehret, DL
		McAllister, TA
		Wood, D
Inglaterra	12	-
Alemanha	12	-
Austrália	11	-
Japão	10	Oida, A
Holanda	9	Clevers, JGPW
		Smaling, EMA
Índia	7	Rao, AS
Itália	7	-

9 Tema: Farmacogenética

Foram identificados 789 artigos focados no tema Farmacogenética, sendo que três países têm 40 ou mais publicações: Estados Unidos, Canadá e Inglaterra. São apresentados a seguir, para estes países, o título, autor de correspondência e autor (ou rede de autores) dos artigos de autores com 4 ou mais artigos:

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com 4 ou mais artigos)	Weinshilboum, RM	Carlini, EJ Raftogianis, RB Wood, TC Jin, F Zheng, W Rebbeck, TR Weinshilboum, RM	Sulfation pharmacogenetics: SULT1A1 and SULT1A2 allele frequencies in Caucasian, Chinese and African-American subjects
		Freimuth, RR Eckloff, B Wieben, ED Weinshilboum, RM	Human sulfotransferase SULT1C1 pharmacogenetics: gene resequencing and functional genomic studies
		Hildebrandt, HAT Salavaggione, OE Martin, YN Flynn, HC Jalal, S Wieben, ED Weinshilboum, RM	Human SULT1A3 pharmacogenetics: gene duplication and functional genomic studies
		Otterness, DM Szumlanski, CL Wood, TC Weinshilboum, RM	Human thiopurine methyltransferase pharmacogenetics - Kindred with a terminal exon splice junction mutation that results in loss of activity
		Preuss, CV Wood, TC Szumlanski, CL Raftogianis, RB Otterness, DM Girard, B Scott, MC Weinshilboum, RM	Human histamine N-methyltransferase pharmacogenetics: Common genetic polymorphisms that alter activity
		Salavaggione, OE Kidd, L Prondzinski, JL Szumlanski, CL Pankratz, VS Wang, LW Trepanier, L Weinshilboum, RM	Canine red blood cell thiopurine S-methyltransferase: companion animal pharmacogenetics
		Salavaggione, OE Yang, C Kidd, LB Thomae, BA Pankratz, VS Trepanier, LA Weinshilboum, RM	Cat red blood cell thiopurine S-methyltransferase: Companion animal pharmacogenetics
		Thomae, BA Rifki, OF Theobald, MA Eckloff, BW Wieben, ED Weinshilboum, RM	Human catecholamine sulfotransferase (SULT1A3) pharmacogenetics: functional genetic polymorphism
		Weinshilboum, RM Otterness, DM Szumlanski, CL	Methylation pharmacogenetics: Catechol O-methyltransferase, thiopurine methyltransferase, and histamine N-methyltransferase
		Xu, ZH Freimuth, RR Eckloff, B Wieben, E Weinshilboum, RM	Human 3'-phosphoadenosine 5'-phosphosulfate synthetase 2 (PAPSS2) pharmacogenetics: gene resequencing, genetic polymorphisms and functional characterization of variant allozymes Pharmacogenetics of human 3'-phosphoadenosine 5'-phosphosulfate synthetase 1 (PAPSS1): gene resequencing, sequence variation, and functional genomics
Yan, L Galinsky, RE Bernstein, JA Liggett, SB Weinshilboum, RM	Histamine N-methyltransferase pharmacogenetics: association of a common functional polymorphism with asthma		

País	Autor de Correspondência	Autor(es)	Título	
		Yan, L Otterness, DM Weinshilboum, RM	Human nicotinamide N-methyltransferase pharmacogenetics: gene sequence analysis and promoter characterization	
	McLeod, HL	McLeod, HL	Drug pathways: moving beyond single gene pharmacogenetics; Pharmacogenetics: more than skin deep	
		Ameyaw, MM Regateiro, F Li, T Liu, XH Tariq, M Mobarek, A Thornton, N Folayan, GO Githang'a, J Indalo, A Ofori-Adjei, D Price-Evans, DA McLeod, HL	MDR1 pharmacogenetics: frequency of the C3435T mutation in exon 26 is significantly influenced by ethnicity	
		Marsh, S Kwok, P McLeod, HL	SNP databases and pharmacogenetics: Great start, but a long way to go	
		Marsh, S McLeod, HL	Cancer pharmacogenetics	
		McLeod, HL Watters, JV	Irinotecan pharmacogenetics: Is it time to intervene?	
		Watters, JW McLeod, HL	Recent advances in the pharmacogenetics of cancer chemotherapy	
		Liggett, SB	Liggett, SB	beta(2)-Adrenergic receptor pharmacogenetics
	Pharmacogenetic applications of the Human Genome Project			
	Pharmacogenetics of beta-1-beta- and 2-adrenergic receptors			
	Pharmacogenetics of relevant targets in asthma			
	The pharmacogenetics of beta(2)-adrenergic receptors: Relevance to asthma			
	Ratain, MJ	Innocenti, F Iyer, L Ratain, MJ	Pharmacogenetics - A tool for individualising antineoplastic therapy; Pharmacogenetics of anticancer agents: Lessons from amonafide and irinotecan	
			Innocenti, F Ratain, MJ	Update on pharmacogenetics in cancer chemotherapy
			Iyer, L Ratain, MJ	Pharmacogenetics and cancer chemotherapy
	EUA (autores com 4 ou mais artigos)	Ratain, MJ	Sawyer, MB Innocenti, F Das, S Cheng, C Ramirez, J Pantle-Fisher, FH Wright, C Badner, J Pei, DQ Boyett, JM Cook, E Ratain, MJ	A pharmacogenetic study of uridine diphosphate-glucuronosyltransferase 2B7 in patients receiving morphine
		Roses, AD	Roses, AD	Genome-based pharmacogenetics and the pharmaceutical industry
		Roses, AD	Roses, AD	Pharmacogenetics
				Pharmacogenetics and drug development: The path to safer and more effective drugs
				Pharmacogenetics and future drug development and delivery

País	Autor de Correspondência	Autor(es)	Título
			Pharmacogenetics place in modern medical science and practice
	Weinshilboum, R	Weinshilboum, R	Pharmacogenetics - Reply; Thiopurine pharmacogenetics: Clinical and molecular studies of thiopurine methyltransferase
		Wang, LW Sullivan, W Toft, D Weinshilboum, R	Thiopurine S-methyltransferase pharmacogenetics: chaperone protein association and allozyme degradation
		Wang, LW Thomae, B Eckloff, B Wieben, E Weinshilboum, R	Human histamine N-methyltransferase pharmacogenetics: gene resequencing, promoter characterization, and functional studies of a common 5'-flanking region single nucleotide polymorphism (SNP)
		WEINSHILBOUM, R AKSOY, I	Sulfation pharmacogenetics in humans
		Evans, WE	Krynetski, EY Evans, WE
	Evans, WE		Pharmacogenetics of thiopurine S-Methyltransferase and thiopurine therapy
	Evans, WE McLeod, HL		Pharmacogenetics - Reply
	Johnson, JA	Andrisin, TE Humma, LM Johnson, JA	Collection of genomic DNA by the noninvasive mouthwash method for use in pharmacogenetic studies
		Johnson, JA	Pharmacogenetics: potential for individualized drug therapy through genetics
		Johnson, JA Lima, JJ	Drug receptor/effector polymorphisms and pharmacogenetics: current status and challenges
		Johnson, JA Terra, SG	beta-adrenergic receptor polymorphisms: Cardiovascular disease associations and pharmacogenetics
EUA (autores com 4 ou mais artigos)	Nebert, DW	Nebert, DW	Extreme discordant phenotype methodology: an intuitive approach to clinical pharmacogenetics
			Pharmacogenetics and pharmacogenomics: why is this relevant to the clinical geneticist?
	Nebert, DW	Nebert, DW	Pharmacogenetics: 65 candles on the cake
			Suggestions for the nomenclature of human alleles: relevance to ecogenetics, pharmacogenetics and molecular epidemiology
Vesell, ES	Vesell, ES	Pharmacogenetics and pharmacogenomics - Recent conceptual and technical advances - Introduction;	

País	Autor de Correspondência	Autor(es)	Título	
			Advances in pharmacogenetics and pharmacogenomics;	
			Therapeutic lessons from pharmacogenetics	
		VESELL, ES GAYLOR, DW	Limitations of probit plots in pharmacogenetics - requirement of genetic analyses to test hypotheses based on graphical methods	
	Weber, WW	Weber, WW		The future of pharmacogenetics;
				The legacy of pharmacogenetics and potential applications;
				Effect of pharmacogenetics on medicine
		Weber, WW Smith, RL	Werner Kalow commemorative issue ASPET/AACC conference new directions in pharmacogenetics and ecogenetics genetic defenses against environmental impacts responses to infections, foods, and environmental toxicants - Preface	
Inglaterra (autores com 4 ou mais artigos)	Arranz, MJ	Arranz, MJ Kerwin, RW	Advances in the pharmacogenetic prediction of antipsychotic response;	
		Arranz, MJ Munro, J Birkett, J Bolonna, A Mancama, D Sodhi, M Lesch, KP Meyer, JFW Sham, P Collier, DA Murray, RM Kerwin, RW	Neurotransmitter-related genes and antipsychotic response: pharmacogenetics meets psychiatric treatment	
			Pharmacogenetic prediction of clozapine response	
	Staddon, S Arranz, MJ Mancama, D Mata, L Kerwin, RW	Clinical applications of pharmacogenetics in psychiatry		
	Hall, IP	Hall, IP	Pharmacogenetics, pharmacogenomics and airway disease;	
Inglaterra (autores com 4 ou mais artigos)	Hall, IP	Hall, IP	Pharmacogenetics of asthma	
		Dewar, JC Hall, IP	Personalised prescribing for asthma - is pharmacogenetics the answer?	
		Fenech, A Hall, IP	Pharmacogenetics of asthma	
Canadá (autores com 4 ou mais artigos)	Kalow, W	Kalow, W	Perspectives in pharmacogenetics	
			Pharmacogenetic research: a revolutionary science	
			Pharmacogenetic variability in brain and muscle	
			Pharmacogenetics and evolution	
			Pharmacogenetics and personalised medicine	
			Pharmacogenetics in biological perspective	
			Pharmacogenetics in perspective	

País	Autor de Correspondência	Autor(es)	Título	
			Pharmacogenetics, pharmacogenomics, and pharmacobiology	
		Ozdemir, V Shear, NH Kalow, W	What will be the role of pharmacogenetics in evaluating drug safety and minimising adverse effects?	
	Alda, M	Alda, M		Pharmacogenetic aspects of bipolar disorder;
				Pharmacogenetics of lithium response in bipolar disorder
		Ruzickova, M Turecki, G Alda, M	Pharmacogenetics and mood stabilization in bipolar disorder	
		Turecki, G Grof, P Grof, E D'Souza, V Lebus, L Marineau, C Cavazzoni, P Duffy, A Betard, C Zvolsky, P Robertson, C Brewer, C Hudson, TJ Rouleau, GA Alda, M	Mapping susceptibility genes for bipolar disorder: a pharmacogenetic approach based on excellent response to lithium	

Neste termo, a liderança em autoria é de Weinshilboum, R., com 13 artigos, conforme tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	240	Weinshilboum, RM
Inglaterra	55	-
Canadá	42	-

Cabe ressaltar que, neste tema FARMACOGENÉTICA, nenhum dos termos foi objeto de artigos no período considerado.

10 Tema: Fertilidade e reprodução animal

Foram identificados 58 artigos focados no tema Fertilidade e Reprodução Animal, sendo que cinco países têm mais de 2 publicações: Estados Unidos, Austrália, Alemanha, Polônia e Suécia.

País	Autor de Correspondência	Autor(es)	Título
EUA	Hill, J	Hill, J Westhusin, M Varner, DD	Advances in large-animal reproduction: In vitro production of embryos;
			Advances in large-animal reproduction: The expanding role of ultrasonography;
			Advances in large-animal reproduction: Updated techniques for artificial insemination and embryo transfer
	MEMON, MA	MEMON, MA	Small animal reproduction .1. Foreword
			Small animal reproduction .2. Foreword;
	Dabrowski, K	Cierieszko, A Babiak, I Dabrowski, K	Efficacy of animal anti-fertility compounds against sea lamprey (<i>Petromyzon marinus</i>) spermatozoa
	Kolnicki, RL	Kolnicki, RL	Kinetochore reproduction in animal evolution: Cell biological explanation of karyotypic fission theory
	Sluder, G	Sluder, G Rieder, CL	Controls for centrosome reproduction in animal cells: Issues and recent observations
	Wilcox, CJ	Roman, RM Wilcox, CJ	Bivariate animal model estimates of genetic, phenotypic, and environmental correlations for production, reproduction, and somatic cells in Jerseys
YANAGIMACHI, R	YANAGIMACHI, R	Is an animal-model needed for intracytoplasmic sperm injection (icsi) and other assisted reproduction technologies	
Austrália	BOYLE, DB	BOYLE, DB	Disease and fertility-control in wildlife and feral animal populations - options for vaccine delivery using vectors
	Burgess, JW	Burgess, JW Barrett, CM	Soil fertility and animal productivity in the Nebo-Broadsound district of central Queensland
	Evans, G	Evans, G	Special issue - Animal reproduction: Research and practice - Proceedings of the 13th international congress on animal reproduction, Sydney, Australia, 30 June 4 July, 1996 - Preface

País	Autor de Correspondência	Autor(es)	Título
Austrália	Freer, M	Freer, M Moore, AD Donnelly, JR	GRAZPLAN: Decision support systems for Australian grazing enterprises .2. The animal biology model for feed intake, production and reproduction and the GrazFeed DSS
	Oogjes, G	Oogjes, G	Ethical aspects and dilemmas of fertility control of unwanted wildlife: An animal welfarist's perspective
Alemanha	Kanitz, W	Kanitz, W;	Oocyte maturation and early embryonic development under the influence of biologically active substances - A Satellite Symposium of the First Central European Conference on Animal Reproduction - Kuhlungsborn, Germany September 22-23, 1996 - Preface;
		Kanitz, W Wahner, M	Management of reproduction in cattle and pigs - physiological background and application 8. International Congress on Biotechnology in Animal Reproduction (ICBAR) - Bernburg, Germany September, 24-26, 2001 - Preface
	Hoedemaker, M	Hoedemaker, M Prange, D Zerbe, H Frank, J Daxenberger, A Meyer, HHD	Peripartal propylene glycol supplementation and metabolism, animal health, fertility, and production in dairy cows
	Hoffmann, B	Hoffmann, B Schuler, G	Receptor blockers - general aspects with respect to their use in domestic animal reproduction
	Manteuffel, G	Manteuffel, G	Central nervous regulation of the hypothalamic-pituitary-adrenal axis and its impact on fertility, immunity, metabolism and animal welfare - a review
Polónia	Dobek, A	Dobek, A Szydlowski, M Szwaczkowski, T Skotarczak, E Molinski, K	Bayesian estimates of genetic variance of fertility and hatchability under a threshold animal model
	Janowski, T	Janowski, T Domslovska, A Zdunczyk, S	Progesterone receptor blockers (antigestagens) and their use in small animal reproduction
	Kotwica, J	Kotwica, J	10th anniversary of foundation of the Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences - Changes in organization of the state veterinary service
	Krakowski, L	Krakowski, L Kostro, K Krakowska, I Wrona, Z	Immunomodulatory role of cytokines in animal reproduction
Suécia	AHLIN, KA	AHLIN, KA EMANUELSON, M WIKTORSSON, H	Rapeseed products from double-low cultivars as feed for dairy-cows - effects of long-term feeding on thyroid-function, fertility and animal health

País	Autor de Correspondência	Autor(es)	Título
Suécia	Gustafsson, H	Gustafsson, H	Animal reproduction: Research and practice II - Proceedings of the 14th International Congress on Animal Reproduction - Stockholm, Sweden, 2-6 July, 2000 - Preface
	Rodriguez-Martinez, H	Rodriguez-Martinez, H	Reflections on the trends in education and research in small animal reproduction in Europe
Japão	Sasada, H	Sasada, H Osonoi, M Shimizu, T Kobayashi, J Sato, E	New challenges in animal reproduction by advanced biotechnologies
	Sato, E	Sato, E Yoshida, N Kimura, N Yokoo, M Sasada, H	New frontiers of animal biotechnology in the field of animal reproduction
Escócia	Crump, RE	Crump, RE Haley, CS Thompson, R Mercer, J;	Individual animal model estimates of genetic parameters for reproduction traits of Landrace pigs performance tested in a commercial nucleus herd;
			Individual animal model estimates of genetic correlations between performance test and reproduction traits of Landrace pigs performance tested in a commercial nucleus herd

A liderança de autores é dos Estados Unidos, sendo que Hill, J. apresenta três artigos, conforme tabela abaixo:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	10	Hill, J
Austrália	5	-
Alemanha	5	-
Polônia	4	-
Suécia	3	-
Japão	2	-
Escócia	2	-

TERMOS do TEMA FERTILIDADE E REPRODUÇÃO ANIMAL

Quanto aos termos sugeridos (pelos especialistas) sobre esse tema, a tabela a seguir mostra o número de artigos localizados:

TEMAS	TERMOS	Nº artigos focados
Fertilidade e reprodução animal	Clonagem	6
	Células tronco	3

10.1 Clonagem

Com relação ao termo “Clonagem”, somente os Estados Unidos apresentam mais de um artigo.

País	Autor de Correspondência	Autor(es)	Título
EUA	Maienschein, J;	Maienschein, J;	On cloning: Advocating history of biology in the public interest;
	Zolfaghari, R	Zolfaghari, R Ross, AC	Recent advances in molecular cloning of fatty acid desaturase genes and the regulation of their expression by dietary vitamin A and retinoic acid
Canadá	Bousquet, D	Bousquet, D Blondin, P	Potential uses of cloning in breeding schemes: Dairy cattle
França	Saint-Paul, G	Saint-Paul, G Carrillo, JD Propper, C	Economic aspects of human cloning and reprogenetics
Israel	Revel, M	Revel, M	Ongoing research on mammalian cloning and embryo stem cell technologies: Bioethics of their potential medical applications
Japão	Tsunoda, Y	Tsunoda, Y Kato, Y	Recent progress and problems in animal cloning

Uma vez que todos os autores têm frequência igual a um artigo, para efeito de análise (Área do Conhecimento CNPq), todos serão considerados.

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	2	-
Canadá	1	-
França	1	-
Israel	1	-
Japão	1	-

10.2 Células tronco

Neste termo, apenas três países tiveram publicações no período estudado, conforme tabela a seguir:

País	Autor de Correspondência	Autor(es)	Título
China	Zhang, XM	Zhang, XM Li, DX Yue, ZP Li, LL Yu, JA	Advances in mammalian spermatogonial stem cell transplantation
Israel	Revel, M	Revel, M	Ongoing research on mammalian cloning and embryo stem cell technologies: Bioethics of their potential medical applications
EUA	Johnston, DS	Johnston, DS Russell, LD Griswold, MD	Advances in spermatogonial stem cell transplantation

Uma vez que os autores têm frequência igual a um, para efeito de análise (Área do Conhecimento CNPq), todos os artigos serão considerados.

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
China	1	-
Israel	1	-
EUA	1	-

11 Tema: Integração: alimentação, nutrição e saúde

Foram identificados 157 artigos focados neste tema, sendo que três países apresentam 6 ou mais publicações: Estados Unidos, Inglaterra e Austrália.

País	Autor de Correspondência	Autor(es)	Título
EUA	Cotugna, N	Tande, DL Hotchkiss, L Cotugna, N	The associations between blood lipids and the food guide pyramid: findings from the third national health and nutrition examination survey (vol 38, pg 452, 2004);
			The associations between blood lipids and the Food Guide Pyramid: findings from the Third National Health and Nutrition Examination Survey
	Dixon, LB	Dixon, LB Sundquist, J Winkleby, M;	Differences in energy, nutrient, and food intakes in a US sample of Mexican-American women and men: Findings from the Third National Health and Nutrition Examination Survey, 1988-1994;
			Dietary intakes and serum nutrients differ between adults from food-insufficient and food-sufficient families: Third National Health and Nutrition Examination Survey, 1988-1994
	Frongillo, EA	Lee, JS Frongillo, EA	Nutritional and health consequences are associated with food insecurity among US elderly persons;
			Understanding needs is important for assessing the impact of food assistance program participation on nutritional and health status in US elderly persons
	Kant, AK	Kant, AK	Consumption of low-nutrient-density foods by American children and adolescents - Nutritional and health correlates, NHANES III, 1988 to 1994;
			Consumption of energy-dense, nutrient-poor foods by adult Americans: nutritional and health implications. The third National Health and Nutrition Examination Survey, 1988-1994
	Welch, RM	Welch, RM;	The impact of mineral nutrients in food crops on global human health;
			Combs, GF Duxbury, JM Welch, RM

País	Autor de Correspondência	Autor(es)	Título
EUA	ACHTERBERG, C	ACHTERBERG, C MCDONNEL, E BAGBY, R	The food-guide-pyramid is a teaching tool to be used in conjunction with education for promoting better health through better nutrition - reply
	Alaimo, K	Alaimo, K Briefel, RR Frongillo, EA Olson, CM	Food insufficiency exists in the United States: Results from the third National Health and Nutrition Examination Survey (NHANES III)
	Apple, RD	Apple, RD	Food politics: How the food industry influences nutrition and health.
	Ballew, C	Ballew, C White, LL Strauss, KF Benson, LJ Mendlein, JM Mokdad, AH	Intake of nutrients and food sources of nutrients among the Navajo: Findings from the Navajo Health and Nutrition Survey
	Blom-Hoffman, J	Blom-Hoffman, J Kelleher, C Power, TJ Leff, SS	Promoting healthy food consumption among young children: Evaluation of a multi-component nutrition education program
	Brecher, SJ	Brecher, SJ Bender, MM Wilkening, VL McCabe, NM Anderson, EM	Status of nutrition labeling, health claims, and nutrient content claims for processed foods: 1997 Food Label and Package Survey
	Briggs, M	Briggs, M Safaii, SA Beall, DL CA Amer Dietetic Assoc; Amer Sch Food Serv Assoc; Soc Nutr Educ	Position of the American Dietetic Association, Society for Nutrition Education, and American School Food Service Association: Nutrition services: An essential component of comprehensive school health programs
	Butkus, SN	Butkus, SN	Health professionals' values associated with support for food assistance and nutrition education programs
	Byers, T	Byers, T Nestle, M McTiernan, A Doyle, C Currie-Williams, A Gansler, T Thun, M CA Amer Canc Soc 2001 Nutr & Physical	American Cancer Society Guidelines on Nutrition and Physical Activity for cancer prevention: Reducing the risk of cancer with healthy food choices and physical activity
	Casey, PH	Casey, PH Szeto, K Lensing, S Bogle, M Weber, J	Children in food-insufficient, low-income families - Prevalence, health, and nutrition status
	Caswell, JA	Caswell, JA Ning, YM Liu, F Mojduszka, EM	The impact of new labeling regulations on the use of voluntary nutrient-content and health claims by food manufacturers
	Cole, CA	Cole, CA	Advertising nutrition and health: Evidence from food advertising, 1977-1997

País	Autor de Correspondência	Autor(es)	Título
EUA	Denke, M	Denke, M	Food politics: How the food industry influences nutrition and health
	Dorfman, L	Dorfman, L	Food politics: How the food industry influences nutrition and health
	Dwyer, J	Dwyer, J Ellwood, K Moshfegh, AJ Johnson, CL	Integration of the Continuing Survey of Food Intakes by Individuals and the National Health and Nutrition Examination Survey
	Facinoli, SL	Woteki, CE Facinoli, SL Schor, D	Keep food safe to eat: Healthful food must be safe as well as nutritious
	Gross, R	Gross, R	Beyond food and nutrition: How can cities be made healthy?
	He, J	Bazzano, LA He, J Ogden, LG Loria, CM Vupputuri, S Myers, L Whelton, PK	Agreement on nutrient intake between the databases of the First National Health and Nutrition Examination Survey and the ESHA food processor
	HUNT, JR	HUNT, JR	Nutritional products for specific health benefits - foods, pharmaceuticals, or something in between
	Kennedy, E	Kennedy, E	Healthy meals, healthy food choices, healthy children: USDA's team nutrition
	Kozup, JC	Kozup, JC Creyer, EH Burton, S	Making healthful food choices: The influence of health claims and nutrition information on consumers' evaluations of packaged food products and restaurant menu items
	Kreuter, MW	Kreuter, MW Brennan, LK Scharff, DP Lukwago, SN	Do nutrition label readers eat healthier diets? Behavioral correlates of adults' use of food labels
	Kumanyika, SK	Kumanyika, SK Mauger, D Mitchell, DC Phillips, B Smiciklas- Wright, H Palmer, JR	Relative validity of food frequency questionnaire nutrient estimates in the Black Women's Health Study
	Kushi, LH	Kushi, LH	Food politics: How the food industry influences nutrition and health.
	Lane, HW	Vodovotz, Y Smith, SM Lane, HW	Food and nutrition in space: Application to human health
	Margolis, S	Margolis, S	Food politics: How the food industry influences nutrition and health.
	Mazur, RE	Mazur, RE Marquis, GS Jensen, HH	Diet and food insufficiency among Hispanic youths: acculturation and socioeconomic factors in the third National Health and Nutrition Examination Survey
Milner, JA	Milner, JA	Do "functional foods" offer opportunities to optimize nutrition and health?	

País	Autor de Correspondência	Autor(es)	Título
EUA	Morgan, A	Alexander, M Allison, D Auld, E Barber, C Beecher, C Beim, A Bier, D Brock, C Broihier, C Byal, N Chappell, J Ciampa, L Clark, A Clark, K Cobe, P Edelson, A Elam, K Ellis, M Gravani, R Greenwell, M Greer, K Gunby, P Hahn, B Haiken, M Hayes, JL Head, A Hill, J Horton, S Howkins, MA Howze, E Ingenthron, G Jacobs, C Jibrin, J Katalinich, P Knuth, K Lane, S Latona, V Levy, S Lindner, L Margolis, D McDonough, B Melton, J Melton, R Monsen, ER Morgan, A Mudd, M Paulson, T Pierre, C Pratt, S Price, F Proulx, L Richter, E Rowe, S Shepers, A Somer, E Starnes, S Straus, K Thompson, B Welch, C Winston, M Yap, L CA Harvard Sch Public Hlth; Int Food Information Council Fdn	Improving public understanding: Guidelines for communicating emerging science on nutrition, food safety and health
	Nayga, RM	Nayga, RM Tepper, BJ Rosenzweig, L	Assessing the importance of health and nutrition related factors on food demand: a variable preference investigation
	Nestle, M	Nestle, M Bal, DG Birt, DF Block, G Byers, T Foerster, S Greenwald, P Hawrylewicz, EJ Henderson, BE Hunter, D Kohlmeier, LA Kritchevsky, D Kumanyika, SK Kushi, L Liebman, BF Russell, R Thompson, H Williamson, DF	Guidelines on diet, nutrition, and cancer prevention: Reducing the risk of cancer with healthy food choices and physical activity
	NEUMARKSZTAINER, D	NEUMARKSZTAINER, D	The food-guide-pyramid is a teaching tool to be used in conjunction with education for promoting better health through better nutrition
	Olson, CM	Olson, CM	Nutrition and health outcomes associated with food insecurity and hunger

País	Autor de Correspondência	Autor(es)	Título
EUA	Parker, BJ	Parker, BJ	Food for health - The use of nutrient content, health, and structure/function claims in food advertisements
	Pennington, JAT	Pennington, JAT	National Institutes of Health (NIH) activities concerning nutrition research related to food composition databases
	Rippe, JM	Rippe, JM	Health claims for food: Dietitians of Canada Pediatric Nutrition Network (DCPNN)
	SHELLDUNCAN, B	SHELLDUNCAN, B	Impact of seasonal-variation in food availability and disease stress on the health-status of nomadic turkana children - a longitudinal analysis of morbidity, immunity, and nutritional-status
	Sims, LS	Sims, LS	Federal Trade Commission study on food health claims in advertising: Implications for nutrition education and policy
	Solomons, NW	Solomons, NW	Ethical consequences for professionals from the globalization of food, nutrition and health
	Song, WO	Obayashi, S Bianchi, LJ Song, WO	Reliability and validity of nutrition knowledge, social-psychological factors, and food label use scales from the 1995 Diet and Health Knowledge Survey
	Staten, LK	Staten, LK	Hispanic foodways, nutrition, and health - Sanjur,D
	Sweetland, LF	Sweetland, LF	The food bible: The ultimate guide to nutritional health and vitality.
	Tungland, BC	Tungland, BC	Fructooligosaccharides and other fructans: Structures and occurrence, production, regulatory aspects, food applications, and nutritional health significance
	Wang, MC	Wang, MC Crawford, PB Bachrach, LK	Intakes of nutrients and foods relevant to bone health in ethnically diverse youths
	Watkins, SM	Watkins, SM Hammock, BD Newman, JW German, JB	Individual metabolism should guide agriculture toward foods for improved health and nutrition
	Weintraub, I	Weintraub, I	Food politics: How the food industry influences nutrition and health.
	Willett, W	Willett, W	Food politics - How the food industry influences nutrition and health
Inglaterra	Caraher, M	Caraher, M Coveney, J	Public health nutrition and food policy
	Copeman, J	Wylie, C Copeman, J Kirk, SFL	Health and social factors affecting the food choice and nutritional intake of elderly people with restricted mobility

País	Autor de Correspondência	Autor(es)	Título
Inglaterra	Holdsworth, M	Holdsworth, M Spalding, D	The development, implementation, monitoring and evaluation of a food and nutrition policy within a local health plan
	Holt, R	Holt, R	The Food and Agriculture Organization/World Health Organization expert report on diet, nutrition and prevention of chronic diseases
	Maclean, N	Maclean, N	Genetically modified fish and their effects on food quality and human health and nutrition
	Margetts, BM	Margetts, BM Martinez, JA Saba, A Holm, L Kearney, M	Definitions of 'healthy' eating: A pan-EU survey of consumer attitudes to food, nutrition and health
	Pomerleau, J	Pomerleau, J Ostbye, T Bright-See, E	Potential underreporting of energy intake in the Ontario Health Survey and its relationship with nutrient and food intakes
	Stratton, RJ	Stratton, RJ Elia, M	The effects of enteral tube feeding and parenteral nutrition on appetite sensations and food intake in health and disease
Austrália	Wahlqvist, ML	Wahlqvist, ML	Requirements for healthy nutrition: Integrating food sustainability, food variety, and health;
			Chronic disease prevention: A life-cycle approach which takes account of the environmental impact and opportunities of food, nutrition and public health policies - the rationale for an eco-nutritional disease nomenclature
	Brand-Miller, JC	Brand-Miller, JC Holt, SHA	Australian Aboriginal plant foods: a consideration of their nutritional composition and health implications
	Hone, P	Hone, P	Health, nutrition and food demand
	Meliála, A	Astuti, M Meliála, A Dalais, FS Wahlqvist, ML	Tempe, a nutritious and healthy food from Indonesia
	Truswell, AS	Truswell, AS	Protective plant foods: New opportunities for health and nutrition

Para a indexação das Áreas de Conhecimento do CNPq, foram considerados os autores mais representativos da amostra, com 2 artigos, conforme a tabela a seguir:

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
EUA	57	Cotugna, N
		Dixon, LB
		Frongillo, EA
		Kant, AK
		Welch, RM
Inglaterra	8	-
Austrália	6	Wahlqvist, ML

TERMOS do TEMA INTEGRAÇÃO: ALIMENTAÇÃO, NUTRIÇÃO E SAÚDE

Abaixo são mostrados os termos que foram objeto de publicações no período estudado, com seus respectivos números de artigos, cabe observar que 4 termos: OGM, Produtos Orgânicos, Qualidade de Vida e Welfare constam somente no resumo.

TEMAS	TERMOS	Nº artigos focados
Integração: alimentação, nutrição e saúde	Nutracêuticos (Alimentos Funcionais)	625
	Organismos Geneticamente Modificados	12
	Produtos Orgânicos	10
	Qualidade de vida	101
	Produção de Vacinas em Plantas e Animais	307
	Welfare	76

11.1 Nutracêuticos

Neste termo, com 625 artigos, 5 países são líderes em publicações: Estados Unidos, Inglaterra, Alemanha, Holanda e Canadá.

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 1 artigo)	Hasler, CM	Hasler, CM;	Functional foods: The western perspective;
			The changing face of functional foods;
			Functional foods: Benefits, concerns and challenges-a position paper from the American Council on Science and Health;
			Functional foods: Their role in disease prevention and health promotion
		Pelletier, S Kundrat, S Hasler, CM	Effects of an educational program on intent to consume functional foods;
	Milner, JA	Milner, JA	Functional foods: the US perspective;
			Functional foods and health: a US perspective;
			Functional foods and health promotion;
			Do "functional foods" offer opportunities to optimize nutrition and health?
	Sato, T	Sato, T Miyata, G	The nutraceutical benefit, Part I: Green tea
			The nutraceutical benefit, part II: Ginseng;
			The nutraceutical benefit, part III: Honey;
			The nutraceutical benefit, Part IV: Garlic;
	Shetty, K	Shetty, K McCue, P;	Phenolic antioxidant biosynthesis in plants for functional food application: Integration of systems biology and biotechnological approaches;
			A biochemical analysis of mungbean (<i>Vigna radiata</i>) response to microbial polysaccharides and potential phenolic-enhancing effects for nutraceutical applications;
			Light-mediated fava bean (<i>Vicia faba</i>) response to phytochemical and protein elicitors and consequences on nutraceutical enhancement and seed vigour;
			Role of proline-linked pentose phosphate pathway in biosynthesis of plant phenolics for functional food and environmental applications: a review
	Sloan, AE	Sloan, AE	Positive eating and problem treating: Nutraceuticals and cereal-based foods in the 21st century;
			The top ten functional food trends;
EUA(auto	Sloan, AE	Sloan, AE	The top 10 functional food trends 2004;

País	Autor de Correspondência	Autor(es)	Título
res com mais de 1 artigo)			The top 10 functional food trends: The next generation
	Mandelker, L	Mandelker, L;	Nutraceuticals and other biologic therapies - Preface;
			The natural activities of cells, the role of reactive oxygen species, and their relation to antioxidants, nutraceuticals, botanicals, and other biologic therapies;
		Mandelker, L Wynn, S	Cellular effects of common nutraceuticals and natural food substances
	Rafi, MM	Rafi, MM;	Significance of Bcl-2 protein phosphorylation in cancer cells for pharmaceutical and nutraceutical discovery;
			Elucidating the role of nutraceuticals in overexpressing antiapoptotic proteins in prostate cancer
		Rafi, MM Yadav, PN Maeng, IK	Targeting inflammation using nutraceuticals;
	Boothe, DM	Boothe, DM	Nutraceuticals in veterinary medicine. Part II. Safety and efficacy;
			Nutraceuticals in veterinary medicine .1. Definitions and regulations
	Clausen, EC	Barreto, JFA Wallace, SN Carrier, DJ Clausen, EC;	Extraction of nutraceuticals from milk thistle I. Hot water extraction;
		Wallace, SN Carrier, DJ Clausen, EC	Extraction of nutraceuticals from milk thistle Part II. Extraction with organic solvents
	Clydesdale, FM	Clydesdale, FM;	A proposal for the establishment of scientific criteria for health claims for functional foods;
		Clydesdale, FM Ha, CS	First international conference on east-west perspectives on functional foods - Preface
	DeFelice, SL	DeFelice, SL	Where is the first nutraceutical cereal company?;
			The nutraceutical revolution - its impact on food-industry r-and-d
Dzanis, DA	Dzanis, DA	Nutraceuticals in veterinary medicine;	
		Regulatory aspects of diets, supplements, and nutraceuticals	
EUA (autores com mais de 1 artigo)	Hill, CG	Sehanputri, PS Hill, CG	Biotechnology for the production of nutraceuticals enriched in conjugated linoleic acid: II. Multiresponse kinetics of the hydrolysis of corn oil by a Pseudomonas sp lipase immobilized in a hollow-fiber reactor;

País	Autor de Correspondência	Autor(es)	Título	
			Biotechnology for the production of nutraceuticals enriched in conjugated linoleic acid: I. Uniresponse kinetics of the hydrolysis of corn oil by a Pseudomonas sp. lipase immobilized in a hollow fiber reactor	
	Jacobson, MF	Jacobson, MF Silverglade, B Heller, IR;	Functional foods: health boon or quackery?;	
		Jacobson, MF Silverglade, B	Functional foods: health boon or quackery? Regulations are needed to govern their composition and advertising	
	Lachance, PA	Lachance, PA	Nutraceuticals, for real; Nutraceutical/drug/anti-terrorism safety assurance through traceability	
	Losso, JN	Losso, JN	Targeting excessive angiogenesis with functional foods and nutraceuticals; Preventing degenerative diseases by anti-Angiogenic functional foods	
	Sanders, ME	Sanders, ME 't Veld, JHI;	Bringing a probiotic-containing functional food to the market: microbiological, product, regulatory and labeling issues	
		Sanders, ME	Overview of functional foods: Emphasis on probiotic bacteria;	
	Zeisel, SH	Zeisel, SH	Nutraceuticals - Response; Health - Regulation of "nutraceuticals"	
Inglaterra	Hardy, G	Hardy, G Hardy, I McElroy, B;	Nutraceuticals: a pharmaceutical viewpoint: I;	
		Hardy, G;	Nutraceuticals and functional foods: Introduction and meaning;	
		Hardy, G Hardy, I;	Selenium: The Se-XY nutraceutical;	
		Hardy, G Hardy, I Ball, PA	Nutraceuticals - a pharmaceutical viewpoint: part II	
	Hilliam, M	Hilliam, M		Future for dairy products and ingredients in the functional foods market;
				The market for functional foods;
				Functional foods: The western consumer viewpoint
	Wiseman, A	Wiseman, A Woods, L;		Addition of designer enhancers to functional foods: need also for redesigned biocatalysts in fail-clean strategies of bioprocessing?;
			Wiseman, A Woods, L Ridgeway, T;	Bioprocessing to generate 'multi-functional' foods?;
			Wiseman, A Woods, LFJ Ridgeway, T Wiseman, H	Clean-processing strategies in preparation of enriched functional foods
	Angus, F	Angus, F	Functional foods	
	Ashwell, M	Ashwell, M	Functional foods: a simple scheme for establishing the scientific validity for all claims	
	Cade, J	McConnon, A Cade, J Pearman, A	Stakeholder interactions and the development of functional foods	

País	Autor de Correspondência	Autor(es)	Título
Inglaterra	Calder, PC	Calder, PC Kew, S	The immune system: a target for functional foods?
	Cummings, JH	Salminen, S Bouley, C Boutron-Ruault, MC Cummings, JH Franck, A Gibson, GR Isolauri, E Moreau, MC Roberfroid, M Rowland, I	Functional food science and gastrointestinal physiology and function
	Diplock, AT	Diplock, AT Charleux, JL Crozier-Willi, G Kok, FJ Rice-Evans, C Roberfroid, M Stahl, W Vina-Ribes, J	Functional food science and defence against reactive oxidative species
	Dye, L	Dye, L Blundell, J	Functional foods: psychological and behavioural functions
	Ernst, E	Ernst, E	Functional foods, nutraceuticals, designer foods: innocent fad or counterproductive marketing ploy?
	Gibson, GR	Ziemer, CJ Gibson, GR	An overview of probiotics, prebiotics and synbiotics in the functional food concept: Perspectives and future strategies
	Goodlad, RA	Goodlad, RA Wasan, H	Functional food properties of non-digestible oligosaccharides
	Hepburn, PA	Hepburn, PA Horner, SA Smith, M	Safety evaluation of phytosterol esters. Part 2. Subchronic 90-day oral toxicity study on phytosterol esters-a novel functional food
	Jackson, KG	Jackson, KG Lovegrove, JA	Functional food, blood lipids and cardiovascular disease. Part 2 - Prebiotics and synbiotics
	Jukes, DJ	Kwak, NS Jukes, DJ	Functional foods. Part 1: the development of a regulatory concept
	Kuhnert, N	Kuhnert, N	Functional foods - A critical observation
	Kwak, NS	Kwak, NS Jukes, DJ	Functional foods. Part 2: the impact on current regulatory terminology
	Lovegrove, JA	Lovegrove, JA Jackson, KG	Functional food, blood lipids and cardiovascular disease. Part 1 - Probiotics
	Pandiella, SS	Charalampopoulos, D Wang, R Pandiella, SS Webb, C	Application of cereals and cereal components in functional foods: a review
	Pieroni, A	Pieroni, A Howard, P Volpato, G Santoro, RF	Natural remedies and nutraceuticals used in ethnoveterinary practices in inland southern Italy
	Reilly, C	Reilly, C	Selenium: A new entrant into the functional food arena
	Richardson, DP	Richardson, DP	Functional foods - Shades of gray: An industry perspective
	Scholey, A	Scholey, A	Chewing gum and cognitive performance: a case of a functional food with function but no food?

País	Autor de Correspondência	Autor(es)	Título
Alemanha	Meisel, H	Hartmann, R Meisel, H;	Cytochemical assessment of phosphopeptides derived from casein as potential ingredients for functional food;
		Meisel, H Bernard, H Fairweather-Tait, S FitzGerald, RJ Hartmann, R Lane, CN McDonagh, D Teucher, B Wal, JM;	Nutraceutical and functional food ingredients for food and pharmaceutical applications;
		Meisel, H;	Biochemical properties of bioactive peptides derived from milk proteins: Potential nutraceuticals for food and pharmaceutical applications;
		Meisel, H Schlimme, E	Bioactive peptides derived from milk proteins: Ingredients for functional foods?
	Hahn, A	Hahn, A Strohle, A Schmitt, B Watkinson, BM;	Active substances of functional food in the prevention of arteriosclerosis - Part 1: Physiological effects of omega-3 fatty acids;
			Active substances of functional food in the prevention of arteriosclerosis - Part 3: Phytosterols
	Schneider, E	Schneider, E	Herbs as functional food: Regulation - Safety - Quality assurance;
			Evaluation of a list of plants suitable for herbal beverages, functional food, food supplement of nutraceuticals
	Andlauer, W	Andlauer, W Furst, P	Nutraceuticals: a piece of history, present status and outlook
	Biesalski, HK	Biesalski, HK	Nutraceuticals: The link between nutrition and medicine (Reprinted from Nutraceuticals in Health and Disease Prevention, pg 1-26, 2001)
	Braun, K	Braun, K Hahn, A Watkinson, BM Schmitt, B	Functional foods - concepts and aims
	Dobenecker, B	Dobenecker, B Beetz, Y Kienzle, E	A placebo-controlled double-blind study on the effect of nutraceuticals (chondroitin sulfate and mussel extract) in dogs with joint diseases as perceived by their owners
	Eckstein, LM	Eckstein, LM Bruhn, M	Health claims for functional food?
	Falch-Ultsch, S	Falch-Ultsch, S Falch, B	Functional food: Nourishment of the future?
	Glei, M	Glei, M Matuschek, M Steiner, C Bohm, V Persin, C Pool-Zobel, BL	Initial in vitro toxicity testing of functional foods rich in catechins and anthocyanins in human cells
	Groeneveld, M	Groeneveld, M	Functional food: definitions and legal situation
	Holzapfel, W	Holzapfel, W Jany, KD	Special issue - Functional food - Challenges for the new millennium - Preface

País	Autor de Correspondência	Autor(es)	Título
Alemanha	Knorr, D	Knorr, D	Technology aspects related to microorganisms In functional foods
	Koletzko, B	Koletzko, B Aggett, PJ Bindels, JG Bung, P Ferre, P Gil, A Lentze, MJ Roberfroid, M Strobel, S	Growth, development and differentiation: a functional food science approach
	Kunz, C	Kunz, C Schulz, S	More than a trend? - Functional foods
	Menrad, K	Menrad, K	Market and marketing of functional food in Europe
	Preuss, A	Preuss, A	Characterization of functional food
	Schmitt, B	Schmitt, B Strohle, A Watkinson, BM Hahn, A	Active substances of functional food in the prevention of arteriosclerosis Part 2: omega-3 fatty acids - state of supply and recommended intake
	Schneider, M	Schneider, M	Phospholipids for functional food
	Sickmuller, B	Sickmuller, B Treib-Recktenwald, P	BPI-position: "Evaluation of a list of plants suitable for herbal beverages, functional food, food supplement or nutraceuticals
	Spiekermann, U	Spiekermann, U	Functional food: history of a 'modern' market segment
Holanda	Hugenholtz, J	Hugenholtz, J Smid, EJ;	Nutraceutical production with food-grade microorganisms;
		Hugenholtz, J Sybesma, W Groot, MN Wisselink, W Ladero, V Burgess, K van Sinderen, D Piard, JC Eggink, G Smid, EJ Savoy, G Sesma, F Jansen, T Hols, P Kleerebezem, M;	Metabolic engineering of lactic acid bacteria for the production of nutraceuticals
		Hugenholtz, J Hunik, J Santos, H Smid, E	Nutraceutical production by propionibacteria;
	Katan, MB;	Katan, MB;	Functional foods;
			Health claims for functional foods - Regulations vary between countries and often permit vague claims
		Katan, MB De Roos, NM	Promises and problems of functional foods;
	Brouns, F	Brouns, F van Nieuwenhoven, M Jeukendrup, A Lichtenbelt, WV;	Functional foods and food supplements for athletes: from myths to benefit claims substantiation through the study of selected biomarkers;
		Brouns, F	Functional foods for athletes
	de Jong, N	de Jong, N Hoendervangers, CT Bleeker, JK Ocke, MC;	The opinion of Dutch dietitians about functional foods
Holanda	de Jong, N	de Jong, N Ocke, MC Branderhorst, HAC Friele, R	Demographic and lifestyle characteristics of functional food consumers and dietary supplement users;

País	Autor de Correspondência	Autor(es)	Título
		Hornstra, G;	Lipids in functional foods in relation to cardiovascular disease;
	Hornstra, G	Hornstra, G Barth, CA Galli, C Mensink, RP Mutanen, M Riemersma, RA Roberfroid, M Salminen, K Vansant, G Verschuren, PM	Functional food science and the cardiovascular system
	deDeckere, EAM	deDeckere, EAM Korver, O	Minor constituents of rice bran oil as functional foods
	Klompenhouwer, T	Klompenhouwer, T van den Belt, H	Regulating functional foods in the European Union: Informed choice versus consumer protection?
	Korthals, M	Korthals, M	The struggle over functional foods: Justice and the social meaning of functional foods
	Kroes, R	Kroes, R Walker, R	Safety issues of botanicals and botanical preparations in functional foods
	Ntanos, F	Ntanos, F	Plant sterol-ester-enriched spreads as an example of a new functional food
	Saris, WHM	Saris, WHM Asp, NGL Bjorck, I Blaak, E Bornet, F Brouns, F Frayn, KN Furst, P Riccardi, G Roberfroid, M Vogel, M	Functional food science and substrate metabolism
	Steijns, JM	Steijns, JM	Milk ingredients as nutraceuticals
	van Kleef, E	van Kleef, E van Trijp, HCM Luning, P Jongen, WMF	Consumer-oriented functional food development: how well do functional disciplines reflect the 'voice of the consumer'?
	Verhagen, H	Verhagen, H Coolen, S Duchateau, G Hamer, M Kyle, J Rechner, A	Assessment of the efficacy of functional food ingredients-introducing the concept "kinetics of biomarkers"
	Verschuren, PM	Verschuren, PM	Functional foods: Scientific and global perspectives
	Voragen, AGJ	Voragen, AGJ	Technological aspects of functional food-related carbohydrates
	Waalkens-Berendsen, DH	Waalkens-Berendsen, DH Wolterbeek, APM Wijnands, MVW Richold, M Hepburn, PA	Safety evaluation of phytosterol esters. Part 3. Two-generation reproduction study in rats with phytosterol esters - a novel functional food
	Weststrate, J	Weststrate, J	Functional foods: cholesterol-lowering benefits of plant sterols
	Weststrate, JA	Weststrate, JA van Poppel, G Verschuren, PM	Functional foods, trends and future
Canadá	Shahidi, F	Shahidi, F Weerasinghe, DK;	Nutraceutical beverages: An overview;

País	Autor de Correspondência	Autor(es)	Título
		Jeon, YJ Shahidi, F Kim, SK;	Preparation of chitin and chitosan oligomers and their applications in physiological functional foods;
		Shahidi, F	Functional foods: Their role in health promotion and disease prevention
	Belem, MAF	Belem, MAF	Application of biotechnology in the product development of nutraceuticals in Canada
	Beliveau, R	Beliveau, R Gingras, D	Green tea: prevention and treatment of cancer by nutraceuticals
	Bettger, WJ	Bettger, WJ	Nutraceuticals for health and performance: Introduction to the symposium.
	Diamandis, EP	Zand, RSR Jenkins, DJA Diamandis, EP	Effects of natural products and nutraceuticals on steroid hormone-regulated gene expression
	Dykes, GA	Dykes, GA Amarowicz, R Pegg, RB	An antioxidant bearberry (Arctostaphylos uva-ursi) extract modulates surface hydrophobicity of a wide range of food-related bacteria: implications for functional food safety
	Fitzpatrick, KC	Fitzpatrick, KC	Regulatory issues related to functional foods and natural health products in Canada: possible implications for manufacturers of conjugated linoleic acid
	Heyland, DK	Heyland, DK	In search of the magic nutraceutical: Problems with current approaches
	Hobbs, JE	Hobbs, JE	Evolving supply chains in the nutraceuticals and functional foods industry
	Jones, PJ	Jones, PJ	Clinical nutrition: 7. Functional foods - more than just nutrition
	Martin, CM	Martin, CM Heyland, DK	Search of the "magic nutraceutical"
	Moreau, M	Moreau, M Dupuis, J Bonneau, NH Desnoyers, M	Clinical evaluation of a nutraceutical, carprofen and meloxicam for the treatment of dogs with osteoarthritis
	Murthy, MRV	Cui, K Luo, XL Xu, KY Murthy, MRV	Role of oxidative stress in neurodegeneration: recent developments in assay methods for oxidative stress and nutraceutical antioxidants
	Oomah, BD	Oomah, BD	Flaxseed as a functional food source
	Reichert, RD	Reichert, RD	Oilseed medicinals in natural drugs, dietary supplements and in new functional foods
	Sauve, F	Sauve, F Paradis, M Refsal, KR Moreau, M Beauchamp, G Dupuis, J	Effects of oral administration of meloxicam, carprofen, and a nutraceutical on thyroid function in dogs with osteoarthritis
	Shatenstein, B	Shatenstein, B Payette, H Nadon, S Gray- Donald, K CA Division Nutrition Healthy Aging	An approach for evaluating lifelong intakes of functional foods in elderly people
Canadá	Taillon, C	Taillon, C Andreasen, A	Veterinary nutraceutical medicine

País	Autor de Correspondência	Autor(es)	Título
	Veeman, M	Veeman, M	Policy development for novel foods: Issues and challenges for functional food
	Vuksan, V	Jenkins, AL Jenkins, DJA Zdravkovic, U Wursch, P Vuksan, V	Depression of the glycemic index by high levels of beta-glucan fiber in two functional foods tested in type 2 diabetes
	Yeboah, FK	Yeboah, FK Konishi, Y	Mass Spectrometry of biomolecules: Functional foods, nutraceuticals, and natural health products

Para a indexação das Áreas de Conhecimento da do CNPq, será considerado apenas o autor mais representativo, nesse caso, Hasler, C., com 5 artigos:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	150	Hasler, CM
Inglaterra	31	-
Alemanha	26	-
Holanda	26	-
Canadá	23	-

11.2 Organismos Geneticamente Modificados

Com esta terminologia associada ao tema, foram identificados 12 artigos, dos quais o país líder é a Bélgica.

País	Autor de Correspondência	Autor(es)	Título
Bélgica	Boenke, A	Boenke, A	Contribution of European research to risk analysis
	Goemans, Y	Goemans, Y	Plant protein substances: The regulatory aspects
	Martens, MA	Martens, MA	Safety evaluation of genetically modified foods
	Somogyi, A	Somogyi, A	Food safety in the light of consumer health protection
EUA	Chassy, B	Chassy, B Hlywka, JJ Kleter, GA Kok, EJ Kuiper, HA McGloughlin, M Munro, IC Phipps, RH Reid, JE;	Nutritional and safety assessments of foods and feeds nutritionally improved through biotechnology: an executive summary
	Mackey, M	Mackey, M	The application of biotechnology to nutrition: An overview
	Perr, HA	Perr, HA	Children and genetically engineered food: Potentials and problems
Alemanha	Flachowsky, G	Flachowsky, G Aulrich, K	Food of animal origin after feeding of feeds from genetically modified plants (GMP)
	Schauzu, M	Schauzu, M	Safety evaluation of genetically engineered foods exemplified by the Flavr Savr tomato
Canadá	Hulse, JH	Hulse, JH	Ethical issues in biotechnologies and international trade
França	Kouba, M	Kouba, M	Quality of organic animal products
Itália	Monastra, G	Monastra, G Rossi, L	Transgenic foods as a tool for malnutrition elimination and their impact on agricultural systems

Uma vez que não há liderança em autoria, todos os artigos são considerados para indexação das Áreas de Conhecimento do CNPq.

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
Bélgica	4	-
EUA	3	-
Alemanha	2	-
Canadá	1	-
França	1	-
Itália	1	-

11.3 Produtos Orgânicos

Com esta terminologia associada ao tema, foram identificados 9 artigos, sem liderança de autoria:

País	Autor de Correspondência	Autor(es)	Título
Dinamarca	Hermansen, JE;	Hermansen, JE	Organic livestock production systems and appropriate development in relation to public expectations
	Thamsborg, SM	Thamsborg, SM;	Organic farming in the Nordic countries - Animal health and production;
Itália	Lombardi-Boccia, G;	Lombardi-Boccia, G Lucarini, M Lanzi, S Aguzzi, A Cappelloni, M;	Nutrients and antioxidant molecules in yellow plums (<i>Prunus domestica</i> L.) from conventional and organic productions: A comparative study;
	Cannella, C	Galterio, G Codianni, P Giusti, AM Pezzarossa, B Cannella, C	Assessment of the agronomic and technological characteristics of <i>Triticum turgidum</i> ssp <i>dicoccum</i> Schrank and <i>T-spelta</i> L.
Inglaterra	O'Riordan, T	O'Riordan, T Cobb, D	Assessing the consequences of converting to organic agriculture
França	Kouba, M	Kouba, M	Quality of organic animal products
Suécia	Albihn, A	Albihn, A	Recycling biowaste - Human and animal health problems
EUA	Wansink, B	Wansink, B	Overcoming the taste stigma of soy
Nova Zelândia	Harker, FR	Harker, FR	Organic food claims cannot be substantiated through testing of samples intercepted in the marketplace: a horticulturalist's opinion

Uma vez que não há liderança em autoria, todos os artigos são considerados para indexação das Áreas de Conhecimento do CNPq .

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
Dinamarca	2	-
Itália	2	-
Inglaterra	1	-
França	1	-
Suécia	1	-
EUA	1	-
Nova Zelândia	1	-

11.4 Qualidade de Vida

Quatro países têm 4 ou mais artigos, com maior representatividade dos Estados Unidos, com 44:

País	Autor de Correspondência	Autor(es)	Título
EUA	Milner, JA	Milner, JA	Functional foods and health: a US perspective;
			Functional foods and health promotion
	Aziz, SJ	Aziz, SJ Campbell-Taylor, I	Neglect and abuse associated with undernutrition in long-term care in North America: Causes and solutions
	Barr, J	Barr, J Schumacher, G	Using focus groups to determine what constitutes quality of life in clients receiving medical nutrition therapy: First steps in the development of a nutrition quality-of-life survey
	Blackburn, GL	Blackburn, GL Copeland, T Khaodhiar, L Buckley, RB	Diet and breast cancer
	Brown, JK	Brown, JK Byers, T Doyle, C Coumeya, KS Demark-Wahnefried, W Kushi, LH McTiernan, A Rock, CL Aziz, N Bloch, AS Eldridge, B Hamilton, K Katzin, C Koonce, A Main, J Mobley, C Morra, ME Pierce, MS Sawyer, KA	Nutrition and physical activity during and after cancer treatment: An American Cancer Society guide for informed choices
	Byers, T	Byers, T Nestle, M McTiernan, A Doyle, C Currie-Williams, A Gansler, T Thun, M CA Amer Canc Soc 2001 Nutr & Physical	American Cancer Society Guidelines on Nutrition and Physical Activity for cancer prevention: Reducing the risk of cancer with healthy food choices and physical activity
	Caballero, B	Caballero, B Rubinstein, S	Environmental factors affecting nutritional status in urban areas of developing countries
	Chertow, GM	Chertow, GM	Modality-specific nutrition support in ESRD: Weighing the evidence
	Crogan, NL	Crogan, NL Evans, B Velasquez, D	Measuring nursing home resident satisfaction with food and food service: Initial testing of the FoodEx-LTC
	Delahanty, LM	Delahanty, LM Hayden, D Ammerman, A Nathan, DM	Medical nutrition therapy for hypercholesterolemia positively affects patient satisfaction and quality of life outcomes
	Dorner, B	Dorner, B Niedert, KC Welch, PK	Position of the American Dietetic Association: Liberalized diets for older adults in long-term care

País	Autor de Correspondência	Autor(es)	Título
EUA	Dwyer, J	Buckner, S Dwyer, J	Do we need a nutrition-specific quality of life questionnaire for dialysis patients?
	Dwyer, JT	Dwyer, JT	Nutrition guidelines and education of the public
	Evans, BC	Evans, BC Crogan, NL Shultz, JA	Resident coping strategies in the nursing home: An indicator of the need for dietary services change
	Fields-Gardner, C	Fields-Gardner, C Fergusson, P Hayes, CR Sanders, M Kelley, C Brison, CM Knoll, LL Rothpletz-Puglia, P Badenhorst, AM Kasten, G De Maio, S McDermid, JM Marchand, MJ McKinney, S Bloch, A Fenton, M	Position of the American Dietetic Association and Dietitians of Canada: Nutrition intervention in the care of persons with human immunodeficiency virus infection
	Firestein, S	Gilbert, AN Firestein, S	Dollars and scents: commercial opportunities in olfaction and taste
	Gleason, JA	Gleason, JA Bourdet, KL Koehn, K Holay, S Schaefer, EJ	Cardiovascular risk reduction and dietary compliance with a home-delivered diet and lifestyle modification program
	Gold, BD	Gold, BD	Review article: epidemiology and management of gastro-oesophageal reflux in children
	Gollub, EA	Gollub, EA Weddle, DO	Improvements in nutritional intake and quality of life among frail homebound older adults receiving home-delivered breakfast and lunch
	Heshka, S	Heshka, S Anderson, JW Atkinson, RL Greenway, FL Hill, JO Phinney, SD Kolotkin, RL Miller-Kovach, K Pi-Sunyer, FX	Weight loss with self-help compared with a structured commercial program - A randomized trial
	Klesges, LM	Klesges, LM Pahor, M Shorr, RI Wan, JY Williamson, JD Guralnik, JM	Financial difficulty in acquiring food among elderly disabled women: Results from the women's health and aging study
	Maxwell, AJ	Maxwell, AJ Zapien, MP Pearce, GL MacCallum, G Stone, PH	Randomized trial of a medical food for the dietary management of chronic, stable angina
	McCabe, BJ	McCabe, BJ	Prevention of food-drug interactions with special emphasis on older adults
McCarthy, DO	McCarthy, DO Lo, CY Nguyen, H Ney, DM	The effect of protein density of food on food intake and nutritional status of tumor-bearing rats	

País	Autor de Correspondência	Autor(es)	Título
EUA	Merchant, RE	Merchant, RE Andre, CA	A review of recent clinical trials of the nutritional supplement <i>Chlorella pyrenoidosa</i> in the treatment of fibromyalgia, hypertension, and ulcerative colitis
	Monteleoni, C	Monteleoni, C Clark, E	Using rapid-cycle quality improvement methodology to reduce feeding tubes in patients with advanced dementia: before and after study
	Mustad, VA	Mustad, VA Jonnalagadda, SS Smutko, SA Pelkman, CL Rolls, BJ Behr, SR Pearson, TA Kris- Eherton, PM	Comparative lipid and lipoprotein responses to solid-food diets and defined liquid-formula diets
	Quandt, SA	Quandt, SA Arcury, TA Bell, RA	Self-management of nutritional risk among older adults: A conceptual model and case studies from rural communities
	Ritchie, CS	Ritchie, CS	Oral health, taste, and olfaction
	Rock, CL	Rock, CL Demark- Waknefried, W	Nutrition and survival after the diagnosis of breast cancer: A review of the evidence
	Roudebush, P	Roudebush, P Davenport, DJ Novotny, BJ	The use of nutraceuticals in cancer therapy
	Schneeman, BO	Schneeman, BO	Plenary lecture 6: Emerging food technology and world health
	Shah, M	Shah, M Baxter, JE McGovern, PG Garg, A	Nutrient and food intake in obese women on a low-fat or low-calorie diet
	Shavers, VL	Shavers, VL Shankar, S	Trend in the prevalence of overweight and obesity among urban African American hospital employees and public housing residents
	Silver, HJ	Silver, HJ Wellman, NS	Nutrition education may reduce burden in family caregivers of older adults
	Simopoulos, AP	Simopoulos, AP	Genetic variation and dietary response: Nutrigenetics/nutrigenomics
	Smriga, M	Smriga, M Ghosh, S Mouneimne, Y Pellett, PL Scrimshaw, NS	Lysine fortification reduces anxiety and lessens stress in family members in economically weak communities in Northwest Syria
	Stuff, JE	Stuff, JE Casey, PH Szeto, KL Gossett, JM Robbins, JM Simpson, PM Connell, C Bogle, ML	Household food insecurity is associated with adult health status
	Tangney, CC	Tangney, CC Young, JA Murtaugh, MA Cobleigh, MA Oleske, DM	Self-reported dietary habits, overall dietary quality and symptomatology of breast cancer survivors: A cross-sectional examination

País	Autor de Correspondência	Autor(es)	Título
EUA	Trichopoulos, D	Trichopoulos, D Lagiou, P Trichopoulou, A	Evidence-based nutrition
	Vailas, LI	Vailas, LI Nitzke, SA Becker, M Gast, J	Risk indicators for malnutrition are associated inversely with quality of life for participants in meal programs for older adults
	Weaver, CM	Weaver, CM Liebman, M	Biomarkers of bone health appropriate for evaluating functional foods designed to reduce risk of osteoporosis
	Weddle, DO	Weddle, DO Fanelli-Kuczmarski, M	Position of the American Dietetic Association: Nutrition, aging, and the continuum of care
Inglaterra	Congleton, J	Congleton, J	The pulmonary cachexia syndrome: aspects of energy balance
	Dainty, JR	Dainty, JR	Use of stable isotopes and mathematical modelling to investigate human mineral metabolism
	Ehiri, JE	Ehiri, JE Prowse, JM	Child health promotion in developing countries: the case for integration of environmental and social interventions?
	Fairweather-Tait, SJ	Fairweather-Tait, SJ	Human nutrition and food research: opportunities and challenges in the post-genomic era
	Hickson, M	Hickson, M Frost, G	An investigation into the relationships between quality of life, nutritional status and physical function
	Moynihan, P	Moynihan, P Petersen, PE	Diet, nutrition and the prevention of dental diseases
	Perry, L	Perry, L McLaren, S	An exploration of nutrition and eating disabilities in relation to quality of life at 6 months post-stroke
	Roseveare, CD	Roseveare, CD Patel, P Simmonds, N Goggin, PM Kimble, J Shepherd, HA	Metal stents improve dysphagia, nutrition and survival in malignant oesophageal stenosis: a randomized controlled trial comparing modified Gianturco Z-stents with plastic Atkinson tubes
	Sheiham, A	Sheiham, A Steele, JG Marcenes, W Tsakos, G Finch, S Walls, AWG	Prevalence of impacts of dental and oral disorders and their effects on eating among older people; a national survey in Great Britain
Bélgica	Boenke, A	Boenke, A	Contribution of European research to anti-microbials and hormones;
			Contribution of European research to risk analysis

País	Autor de Correspondência	Autor(es)	Título
Bélgica	Boonen, S	Boonen, S Rizzoli, R Meunier, PJ Stone, M Nuki, G Syversen, U Lehtonen-Veromaa, M Lips, P Johnell, O Reginster, JY	The need for clinical guidance in the use of calcium and vitamin D in the management of osteoporosis: a consensus report
	Lucas, J	Lucas, J	European Union-funded research on probiotics, prebiotics and new foods
Canadá	Barr, SI	Barr, SI McCarron, DA Heaney, RP Dawson-Hughes, B Berga, SL Stern, JS Oparil, S	Effects of increased consumption of fluid milk on energy and nutrient intake, body weight, and cardiovascular risk factors in healthy older adults
	Carli, F	Carli, F Mayo, N Klubien, K Schricker, T Trudel, J Belliveau, P	Epidural analgesia enhances functional exercise capacity and health-related quality of life after colonic surgery - Results of a randomized trial
	Kronl, M	Kronl, M Coleman, PH Bradley, CL Lau, D Ryan, N	Subjectively healthy elderly consuming a liquid nutrition supplement maintained body mass index and improved same nutritional parameters and perceived well-being
	West, GE	West, GE Ouellet, D Ouellette, S	Resident and staff ratings of foodservices in long-term care: Implications for autonomy and quality of life

Estados Unidos e Bélgica apresentam autores com 2 artigos cada, respectivamente, Milner, J. e Boenke, A.:

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
EUA	44	Milner, JA
Inglaterra	9	-
Bélgica	4	Boenke, A
Canadá	4	-

11.5 Produção de Vacinas em Plantas e Animais

Neste termo, foram localizados 307 artigos, sendo que os Estados Unidos é líder com 85 publicações. Para os cinco países mais representativos serão apresentados os títulos dos artigos, autor(es) e autor de correspondência, na tabela abaixo:

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 1 artigo)	May, JC	May, JC Rey, L Lee, CJ Arciniega, J;	Evaluation of components of X-ray irradiated 7-valent pneumococcal conjugate vaccine and pneumococcal vaccine polyvalent and X-ray and gamma-ray irradiated acellular pertussis component of DTaP vaccine products;
		May, JC DeGrosso, AV Wheeler, RM Etz, NM;	TG/MS capillary interface - Applications to determination of residual moisture in BCG vaccine and other freeze-dried biological products;
		May, JC Rey, L Lee, CJ	Evaluation of some selected vaccines and other biological products irradiated by gamma rays, electron beams and X-rays
	Frey, S	Frey, S Dagan, R Ashur, Y Chen, XQ Ibarra, J Kollaritsch, H Mazur, MH Poland, GA Reisinger, K Walter, E Van Damme, P Braconier, JH Uhnou, I Wahl, M Blatter, MM Clements, D Greenberg, D Jacobson, RM Norrby, SR Rowe, M Shouval, D Simmons, SS van Hattum, J Wennerholm, S Gress, JO Chan, I Kuter, B;	Antibody production in response to hepatitis B surface antigen in a combination hepatitis A/hepatitis B vaccine - Reply;
			Interference of antibody production to hepatitis B surface antigen in a combination hepatitis A/hepatitis B vaccine
	Korban, SS	Korban, SS Krasnyanski, SF Buetow, DE;	Foods as production and delivery vehicles for human vaccines;
		Korban, SS	Targeting and expression of antigenic proteins in transgenic plants for production of edible oral vaccines
	Lillehoj, HS	Okamura, M Lillehoj, HS Raybourne, RB Babu, U Heckert, R;	Antigen-specific lymphocyte proliferation and interleukin production in chickens immunized with killed salmonella enteritidis vaccine or experimental subunit vaccines;
			Cell-mediated immune responses to a killed Salmonella enteritidis vaccine: lymphocyte proliferation, T-cell changes and interleukin-6 (IL-6), IL-1, IL-2, and IFN-gamma production
	Whiteside, TL	Asai, T Storkus, WJ Whiteside, TL;	Evaluation of the modified ELISPOT assay for gamma interferon production in cancer patients receiving antitumor vaccines;

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 1 artigo)	Whiteside, TL	Meidenbauer, N Gooding, W Spitler, L Harris, D Whiteside, TL	Recovery of zeta-chain expression and changes in spontaneous IL-10 production after PSA-based vaccines in patients with prostate cancer
Japão	Gotanda, T	Itoh, A Gotanda, T	The correlation of protective effects and antibody production in immunized chickens with recombinant R7 vaccine against Leucocytozoon caulleryi
	Hamajima, K	Hamajima, K Sasaki, S Fukushima, J Kaneko, T Xin, KQ Kudoh, I Okuda, K	Intranasal administration of HIV-DNA vaccine formulated with a polymer, carboxymethylcellulose, augments mucosal antibody production and cell-mediated immune response
Japão	Honda, M	Chujoh, Y Matsuo, K Yoshizaki, H Nakasatomi, T Someya, K Okamoto, Y Naganawa, S Haga, S Yoshikura, H Yamazaki, A Yamazaki, S Honda, M	Cross-clade neutralizing antibody production against human immunodeficiency virus type 1 clade E and B ' strains by recombinant Mycobacterium bovis BCG-based candidate vaccine
	Kimoto, T	Kimoto, T	Pathological observations during treatment with the biological response modifier Maruyama vaccine in cancer: Implications for collagen production in the prevention of cancer invasion and metastasis
	KOBAYASHI, K	KOBAYASHI, K UENO, Y SUZUKI, H MIURA, M NAGATOMI, R ISHII, M TOYOTA, T	Antidiotypic antibody-production in hepatitis-b vaccine recipients
	Konishi, E	Konishi, E Terazawa, A Fujii, A	Evidence for antigen production in muscles by dengue and Japanese encephalitis DNA vaccines and a relation to their immunogenicity in mice
	Minamoto, N	Ito, N Kakemizu, M Ito, KA Yamamoto, A Yoshida, Y Sugiyama, M Minamoto, N	A comparison of complete genome sequences of the attenuated RC-HL strain of rabies virus used for production of animal vaccine in Japan, and the parental Nishigahara strain
	NAITO, S	NAITO, S TAKAHASHI, M ISHIDA, S UCHIDA, T	Induction of ige antibody-production in mice with different dpt-vaccine preparations
	Okamoto, H	Yamada, K Kotani, M Eguchi, T Kobayashi, M Yamazoe, K Yanagi, R Ishikawa, S Tsuda, F Okamoto, H	Efficacy of hepatitis B vaccines with and without preS2-region product in Sumo wrestlers in Japan
	Onji, M	Akbar, SMF Furukawa, S Hasebe, A Horiike, N Michitaka, K Onji, M	Production and efficacy of a dendritic cell-based therapeutic vaccine for murine chronic hepatitis B virus carrier
	Onoe, K	Takahashi, A Ogasawara, K Matsuki, N Fujinaga, K Nakaya, T Ikuta, K Auwanit, W Honda, M Fukui, Y Sasazuki, T Iwabuchi, K Onoe, K	Development of peptide vaccines inducing production of neutralizing antibodies against HIV-1 viruses in HLA-DQ6 mice

País	Autor de Correspondência	Autor(es)	Título
	SAKAMOTO, SI	SAKAMOTO, SI IDE, T NAKATAKE, H TOKIYOSHI, S YAMAMOTO, M KAWAI, A SMITH, JS	Studies on the antigenicity and nucleotide-sequence of the rabies virus nishigahara strain, a current seed strain used for dog vaccine production in japan
	Sugiyama, M	Sugiyama, M Minamoto, N Kinjo, T Ito, H Yamanouchi, K	The nucleotide sequence of the hemagglutinin gene of the LA strain of rinderpest virus, a seed virus strain used for vaccine production in Japan
Japão	TOMODA, T	TOMODA, T MORITA, H KURASHIGE, T MAASSAB, HF	Prevention of influenza by the intranasal administration of cold-recombinant, live-attenuated influenza-virus vaccine - importance of interferon-gamma production and local iga response
Alemanha	Beck, I	Beck, I Gerlach, H Burkhardt, E Kaleta, EF	Investigation of several selected adjuvants regarding their efficacy and side effects for the production of a vaccine for parakeets to prevent a disease caused by a paramyxovirus type 3
	GRUHN, R	GRUHN, R BASSLER, HJ WERNER, UJ	Sterilization of chicken eggs for vaccine production with vaporized hydrogen-peroxide
	Kaden, V	Kaden, V Riebe, B	Classical Swine Fever (CSF): a historical review of research and vaccine production on the Isle of Riems
	Lawrence, SA	Lawrence, SA	beta-propiolactone: Viral inactivation in vaccines and plasma products
	Mason, HS	Warzecha, H Mason, HS	Benefits and risks of antibody and vaccine production in transgenic plants
	Matheis, W	Matheis, W Zott, A Schwanig, M	The role of the adsorption process for production and control combined adsorbed vaccines
	Methner, U	Methner, U Barrow, PA Martin, G Meyer, H	Comparative study of the protective effect against Salmonella colonisation in newly hatched SPF chickens using live, attenuated Salmonella vaccine strains, wild-type Salmonella strains or a competitive exclusion product
	Neumann, S	Neumann, S	Influence of the combined application from a monovaccine against feline leukemia virus and a combined vaccine against feline parvovirus, feline rhinotracheitisvirus, feline calicivirus and Chlamydia psittaci to the production of antibodies against the com
	NOE, W	NOE, W BUX, R BERTHOLD, W WERZ, W	Optimization of vaccine production for animal health
	Petry, H	Petry, H Stahl-Hennig, C Dittmer, U Jones, D Farrar, G Wachter, H Fuchs, D Nisslein, T Jurkiewicz, E Hunsmann, G Luke, W	A subunit vaccine consisting of gp130 oligomers but not of gp130 monomers protects rhesus macaques against productive infection with SIVmac32H

País	Autor de Correspondência	Autor(es)	Título
	Suss, J	Suss, J	Epidemiology and ecology of TBE relevant to the production of effective vaccines
	WAGNER, D	WAGNER, D WAGENBRETH, I STACHANKUNSTYR, R THOMA, HA HEMMERLING, AE FLIK, J	Hepatitis-b vaccination of immunosuppressed heart-transplant recipients with the vaccine hepa-gene-3 containing pre-s1-gene, pre-s2-gene, and s-gene-products
Alemanha	Wallich, R	Wallich, R Siebers, A Jahraus, O Brenner, C Stehle, T Simon, MM	DNA vaccines expressing a fusion product of outer surface proteins A and C from Borrelia burgdorferi induce protective antibodies suitable for prophylaxis but not for resolution of Lyme disease
Inglaterra	Chargelegue, D	Chargelegue, D Obregon, P Drake, PMW	Transgenic plants for vaccines production: expectations and limitations
	Lin, FT	Lin, FT Na, L	Developments in the production and application of rabies vaccine for human use in China
	Ma, JKC	Ma, JKC Vine, ND	Plant expression systems for the production of vaccines
	Middelberg, APJ	Lai, WB Middelberg, APJ	The production of human papillomavirus type 16 L1 vaccine product from Escherichia coli inclusion bodies
	Moran, E	Moran, E	A microcarrier-based cell culture process for the production of a bovine respiratory syncytial virus vaccine
	Nixon, PJ	Tregoning, J Maliga, P Dougan, G Nixon, PJ	New advances in the production of edible plant vaccines: Chloroplast expression of a tetanus vaccine antigen, TetC
	Slater, NKH	O'Keeffe, R Johnston, MD Slater, NKH	The primary production of an infectious recombinant herpes simplex virus vaccine
	Taylor, MG	Taylor, MG Huggins, MC Shi, FH Lin, JJ Tian, E Ye, P Shen, W Qian, CG Lin, BF Bickle, QD	Production and testing of Schistosoma japonicum candidate vaccine antigens in the natural ovine host
	Tree, JA	Tree, JA Richardson, C Fooks, AR Clegg, JC Looby, D	Comparison of large-scale mammalian cell culture systems with egg culture for the production of influenza virus A vaccine strains
	Webster, A	Webster, A Boyce, M Edmundson, S Miller, I	Coadministration of orally inhaled zanamivir with inactivated trivalent influenza vaccine does not adversely affect the production of antihaemagglutinin antibodies in the serum of healthy volunteers
	Wiseman, A	Wiseman, A	Greener vaccine production with GM yeasts
	Zuckerman, JN	Zuckerman, JN	Nonresponse to hepatitis B vaccines and the kinetics of anti-HBs production
Índia	Shrivastaw, KP	Shrivastaw, KP Singh, S Sharma, SB Sokhey, J;	Quantitation of protein content by biuret method during production of yellow fever vaccine;

País	Autor de Correspondência	Autor(es)	Título
		SHRIVASTAW, KP JHAMB, SS KUMAR, A	Quantitation of the protein-content of diphtheria and tetanus toxoids by the biuret method during production of combined vaccines
	BORDOLAI, GK	BORDOLAI, GK BORO, BR MUKIT, A SHARMA, K DUTTA, GN	Adaptation and attenuating of duck plague virus for vaccine production
Índia	Cheema, JK	Cheema, JK Batth, BK Oberoi, MS	Production of IgG(2) class of monoclonal antibodies against a vaccine strain of infectious bursal disease virus
	Deshmukh, RA	Iyer, AV Ghosh, S Singh, SN Deshmukh, RA	Evaluation of three 'ready to formulate' oil adjuvants for foot-and-mouth disease vaccine production
	GOPALAN, V	GOPALAN, V SUGIRTHA, PG PADMARAJ, A SOPHILA, R SRIDHAR, A	Production of tissue-culture rinderpest vaccine - aspects of freeze-drying
	Mehta, JM	Mehta, JM	Licensing IP to ensure accessibility to vaccines and other immunisation-related products
	Sharma, AK	Sharma, AK Mohanty, A Singh, Y Tyagi, AK	Transgenic plants for the production of edible vaccines and antibodies for immunotherapy
	Suprasanna, P	Suprasanna, P Ganapathi, TR Rao, PS	Vaccine production in transgenic plants

O autor mais representativo é May, JC., com três artigos:

PAÍS	NºDE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	85	May, JC
Japão	14	-
Alemanha	13	-
Inglaterra	12	-
Índia	9	-

11.6 Welfare

Neste termo, foram localizados 76 artigos, sendo que os Estados Unidos é líder com 23 publicações. Para os cinco países mais representativos (4 ou mais artigos) serão apresentados os títulos dos artigos, autor(es) e autor de correspondência, na tabela abaixo:

País	Autor de Correspondência	Autor(es)	Título
EUA	Black, MM	Black, MM Cutts, DB Frank, DA Geppert, J Skalicky, A Levenson, S Casey, PH Berkowitz, C Zaldivar, N Cook, JT Meyers, AF Herren, T CA Childrens Sentinel Nutritional Ass	Special Supplemental Nutrition Program for Women, Infants, and Children participation and infants' growth and health: A multisite surveillance study
	Butkus, SN	Butkus, SN	Health professionals' values associated with support for food assistance and nutrition education programs
	Devine, CM	Jabs, J Devine, CM Sobal, J	Model of the process of adopting vegetarian diets: Health vegetarians and ethical vegetarians
	Engle, PL	Lamontagne, JF Engle, PL Zeitlin, MF	Maternal employment, child care, and nutritional status of 12-18-month-old children in Managua, Nicaragua
	Frenn, M	Frenn, M Porter, C	Exercise and nutrition: What adolescents think is important
	GEORGE, KP	GEORGE, KP	Discrimination and bias in the vegan ideal
	Heslin, KC	Heslin, KC Andersen, RM Gelberg, L	Case management and access to services for homeless women
	Hill, RP	Hill, RP Macan, S	Consumer survival on welfare with an emphasis on Medicaid and the Food Stamp Program
	Himmelgreen, DA	Himmelgreen, DA Perez-Escamilla, R Segura-Millan, S Peng, YK Gonzalez, A Singer, M Ferris, A	Food insecurity among low-income Hispanics in Hartford, Connecticut: Implications for public health policy
	Johnson, FC	Johnson, FC Hotchkiss, DR Mock, NB McCandless, P Karolak, M	The impact of the AFDC and food stamp programs on child nutrition: Empirical evidence from New Orleans
Keenan, DP	Kempson, K Keenan, DP Sadani, PS Adler, A	Maintaining food sufficiency: Coping strategies identified by limited-resource individuals versus nutrition educators	
EUA	Klevay, LM	Klevay, LM	Lack of a recommended dietary allowance for copper may be hazardous to your health

País	Autor de Correspondência	Autor(es)	Título
	Krueger, PM	Krueger, PM Rogers, RG Ridaó-Cano, C Hummer, RA	To help or to harm? Food stamp receipt and mortality risk prior to the 1996 Welfare Reform Act
	Perez-Escamilla, R	Perez-Escamilla, R Himmelgreen, D Segura-Millan, S Gonzalez, A Ferris, AM Damio, G Bermudez-Vega, A	Prenatal and perinatal factors associated with breast-feeding initiation among inner-city Puerto Rican women
	Salvatore, RD	Salvatore, RD	Stature decline and recovery in a food-rich export economy: Argentina 1900-1934
	Sellen, DW	Sellen, DW	Nutritional consequences of wealth differentials in East African pastoralists: The case of the Datoga of northern Tanzania
	Shell-Duncan, B	Shell-Duncan, B Obiero, WO	Child nutrition in the transition from nomadic pastoralism to settled lifestyles: Individual, household, and community-level factors
	Siefert, K	Siefert, K Heflin, CM Corcoran, ME Williams, DR	Food insufficiency and the physical and mental health of low-income women
	Smith, TG	Smith, TG	The McDonald's equilibrium - Advertising, empty calories, and the endogenous determination of dietary preferences
	Teisl, MF	Teisl, MF Bockstael, NE Levy, A	Measuring the welfare effects of nutrition information
	Willis, E	Willis, E Malloy, M Kliegman, RM	Welfare reform consequences for children: The Wisconsin experience
	Wolfe, WS	Wolfe, WS Olson, CM Kendall, A Frongillo, EA	Understanding food insecurity in the elderly: A conceptual framework
	Young, AL	Young, AL	Food irradiation - After 35 years, have we made progress: A government perspective
Japão	Arai, S	Arai, S;	Functional food science in Japan: State of the art;
			Studies on functional foods in Japan - State of the art
		Arai, S Osawa, T Ohigashi, H Yoshikawa, M Kaminogawa, S Watanabe, M Ogawa, T Okubo, K Watanabe, S Nishino, H Shinohara, K Esashi, T Hirahara, T	A mainstay of functional food science in Japan - History, present status, and future outlook;

País	Autor de Correspondência	Autor(es)	Título
Japão	Ikeda, M	Shimbo, S Zhang, ZW Miyake, K Watanabe, T Nakatsuka, H Matsuda-Inoguchi, N Moon, CS Higashikawa, K Ikeda, M; Zhang, ZW Shimbo, S Miyake, K Watanabe, T Nakatsuka, H Matsuda-Inoguchi, N Moon, CS Higashikawa, K Ikeda, M	Estimates of mineral intakes using food composition tables vs measures by inductively-coupled plasma mass spectrometry: Part 1. calcium, phosphorus and iron; Estimates of mineral intakes using food composition tables vs measures by inductively-couple
	Shimizu, T	Shimizu, T	Health claims on functional foods: the Japanese regulations and an international comparison;
			Newly established regulation in Japan: foods with health claims
	Akiba, Y	Akiba, Y Toyomizu, M Takahashi, K Sato, K	Nutrition: The key role for optimization of growth and carcass quality in broiler chickens
	Hinohara, S	Hinohara, S Nishino, R Nakazato, R Takahashi, T Matsumoto, H Hori, S Masuyama, Y Hinohara, S Horie, M Robinson, D	Dietary balance chart for an on-line computerized graphical support system in MHTS
	Ishiwata, H	Ishiwata, H Nishijima, M Fukasawa, Y Ito, Y Yamada, T	Evaluation of sorbic acid contents in foods and the daily intake deduced from the results of official inspection in Japan in FY 1994
	Matsuo, N	Matsuo, N	Nutritional characteristics and health benefits of diacylglycerol in foods
	Ogawa, K	Ogawa, K Tsubono, Y Nishino, Y Watanabe, Y Ohkubo, T Watanabe, T Nakatsuka, H Takahashi, N Kawamura, M Tsuji, I Hisamichi, S	Inter- and intra-individual variation of food and nutrient consumption in a rural Japanese population
Tuncbilek, E	Tuncbilek, E Unalan, T Coskun, T	Indicators of nutritional status in Turkish preschool children: Results of Turkish Demographic and Health Survey 1993	
Canadá	Tarasuk, VS	Vozoris, NT Tarasuk, VS;	Household food insufficiency is associated with poorer health;
		Tarasuk, VS	Household food insecurity with hunger is associated with women's food intakes, health and household circumstances

País	Autor de Correspondência	Autor(es)	Título
Canadá	Barr, SI	Barr, SI Chapman, GE	Perceptions and practices of self-defined current vegetarian, former vegetarian, and nonvegetarian women
	Costello, MJ	Costello, MJ Grant, A Davies, IM Cecchini, S Papoutsoglou, S Quigley, D Saroglia, M	The control of chemicals used in aquaculture in Europe
	Lapierre, H	Lapierre, H	Research in milk production at the Lennoxville Centre
	Riches, G	Riches, G	Food banks and food security: Welfare reform, human rights and social policy. Lessons from Canada?
Dinamarca	Bugel, S	Bugel, S	Can human micronutrient status be improved by supplementing domestic animals?
	Hermansen, JE	Hermansen, JE	Organic livestock production systems and appropriate development in relation to public expectations
	Ingvarsen, KL	Ingvarsen, KL Andersen, JB	Integration of metabolism and intake regulation: A review focusing on periparturient animals
	Thamsborg, SM	Thamsborg, SM	Organic farming in the Nordic countries - Animal health and production
Alemanha	Kamphues, J	Kamphues, J	Water requirement of food producing and companion animals.;
			Problems in feeding food producing animals to meet the energy and nutrient requirements as well as to enable animals' well-being
	Hartung, J	Hartung, J Kamphues, J	Do we need a legal regulation to control the quality of the drinking water for animals? Recommendations for the water supply of farm and pet animals.
	Steinhart, H	Steinhart, H Biernoth, G	Can food quality be enhanced by chromatography?

O autor mais representativo é do Japão (Arai, S.), com três artigos:

PAÍS	NºDE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	23	-
Japão	13	Arai, S
Canadá	6	-
Dinamarca	4	-
Alemanha	4	-

12 Tema: Metagenômica/ Prospecção Gênica

No tema “metagenômica / prospecção gênica”, foram localizados 42 artigos focados, sendo que apenas dois países se destacam: Estados Unidos e Alemanha, com 17 e 11 artigos, respectivamente:

País	Autor de Correspondência	Autor(es)	Título
EUA	Handelsman, J	Handelsman, J Liles, M Mann, D Riesenfeld, C Goodman, RM;	Cloning the metagenome: Culture-independent access to the diversity and functions of the uncultivated microbial world;
		Gillespie, DE Brady, SF Bettermann, AD Cianciotto, NP Liles, MR Rondon, MR Clardy, J Goodman, RM Handelsman, J;	Isolation of antibiotics turbomycin A and B from a metagenomic library of soil microbial DNA;
		Rondon, MR August, PR Bettermann, AD Brady, SF Grossman, TH Liles, MR Loiacono, KA Lynch, BA MacNeil, IA Minor, C Tiong, CL Gilman, M Osburne, MS Clardy, J Handelsman, J Goodman, RM;	Cloning the soil metagenome: a strategy for accessing the genetic and functional diversity of uncultured microorganisms;
		Schloss, PD Handelsman, J	Biotechnological prospects from metagenomics
	Alper, CA	Alper, CA Awdeh, Z	Incomplete penetrance of MHC susceptibility genes: prospective analysis of polygenic MHC-determined traits
	BERTELSEN, AH	BERTELSEN, AH BEAUDRY, GA STOLLER, TJ TROTТА, PP SHERMAN, MI	Tumor-suppressor genes - prospects for cancer therapies - should therapy be aimed at restoring normal phenotype to cancer-cells or at eliminating the cells altogether
	Crawford, RL	Sebat, JL Colwell, FS Crawford, RL	Metagenomic profiling: Microarray analysis of an environmental genomic library
	Day-Rubenstein, K	Day-Rubenstein, K Frisvold, GB	Genetic prospecting and biodiversity development agreements
	Galperin, MY	Galperin, MY	Metagenomics: from acid mine to shining sea
	Goodman, RM	Liles, MR Manske, BF Bintrim, SB Handelsman, J Goodman, RM	A census of rRNA genes and linked genomic sequences within a soil metagenomic library
	Musser, JM	Banks, DJ Porcella, SF Barbian, KD Beres, SB Philips, LE Voyich, JM DeLeo, FR Martin, JM Somerville, GA Musser, JM	Progress toward characterization of the group a Streptococcus metagenome: Complete genome sequence of a macrolide-resistant serotype M6 strain
	OBRIEN, SJ	OBRIEN, SJ	Genomic prospecting

País	Autor de Correspondência	Autor(es)	Título
EUA	Ow, DW	Ow, DW	Heavy metal tolerance genes: Prospective tools for bioremediation
	Pears, KC	Pears, KC Capaldi, DM	Intergenerational transmission of abuse: a two-generational prospective study of an at-risk sample
	Rohwer, F	Breitbart, M Hewson, I Felts, B Mahaffy, JM Nulton, J Salamon, P Rohwer, F	Metagenomic analyses of an uncultured viral community from human feces
	Schier, AF	Schier, AF Joyner, AL Lehmann, R Talbot, WS	From screens to genes: Prospects for insertional mutagenesis in zebrafish
	White, BA	Galbraith, EA Antonopoulos, DA White, BA	Suppressive subtractive hybridization as a tool for identifying genetic diversity in an environmental metagenome: the rumen as a model
Alemanha	Daniel, R	Knietsch, A Waschowitz, T Bowien, S Henne, A Daniel, R;	Construction and screening of metagenomic libraries derived from enrichment cultures: Generation of a gene bank for genes conferring alcohol oxidoreductase activity on <i>Escherichia coli</i> ;
			Metagenomes of complex microbial consortia derived from different soils as sources for novel genes conferring formation of carbonyls from short-chain polyols on <i>Escherichia coli</i>
		Knietsch, A Bowien, S Whited, G Gottschalk, G Daniel, R;	Identification and characterization of coenzyme B-12-dependent glycerol dehydratase- and diol dehydratase-encoding genes from metagenomic DNA libraries derived from enrichment cultures;
		Daniel, R	The soil metagenome - a rich resource for the discovery of novel natural products;
	Streit, WR	Streit, WR Schmitz, RA;	Metagenomics - the key to the uncultured microbes;
		Schmeisser, C Stockigt, C Raasch, C Wingender, J Timmis, KN Wenderoth, DF Flemming, HC Liesegang, H Schmitz, RA Jaeger, KE Streit, WR;	Metagenome survey of biofilms in drinking-water networks;
		Voget, S Leggewie, C Uesbeck, A Raasch, C Jaeger, KE Streit, WR	Prospecting for novel biocatalysts in a soil metagenome
	Lorenz, P	Lorenz, P Liebeton, K Niehaus, F Eck, J;	Screening for novel enzymes for biocatalytic processes: accessing the metagenome as a resource of novel functional sequence space;
		Lorenz, P Schleper, C	Metagenome - a challenging source of enzyme discovery
	Maelicke, A	Maelicke, A	Gene prospecting - The hunt for genetic information

País	Autor de Correspondência	Autor(es)	Título
Alemanha	Piel, J	Piel, J Hui, DQ Fusetani, N Matsunaga, S	Targeting modular polyketide synthases with iteratively acting acyltransferases from metagenomes of uncultured bacterial consortia

Ambos os países apresentam autores com 4 artigos, os mais representativos, Handelsman, J. e Daniel, R, respectivamente:

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
EUA	17	Handelsman, J
Alemanha	11	Daniel, R

Cabe ressaltar que os termos deste tema Metagenômica/ Prospecção Gênica não foram objeto de artigos na Web of Science, no período considerado.

13 Tema: Programas de Descoberta

No tema “Programas de descoberta”, não foram localizados artigos focados.

TERMOS do TEMA PROGRAMAS de DESCRIBERTAS

Apenas três termos foram objeto de publicação; o número de artigos por termo pode ser visualizado na tabela abaixo:

TEMA	TERMOS	Nº artigos focados
Programas de descoberta	Genômica Funcional	776
	Nanobiotecnologia	32
	<i>In silico biology</i>	8

13.1 Genômica Funcional

Com relação ao termo “genômica funcional”, apenas os Estados Unidos se destaca, com 394 dos 776 artigos localizados. É apresentado os títulos do autor mais representativo, com 11 publicações (Oliver, SG.) da Inglaterra.

País	Autor de Correspondência	Autor(es)	Título
Inglaterra (autores com mais 10 de artigos)	Oliver, SG	Raamsdonk, LM Teusink, B Broadhurst, D Zhang, NS Hayes, A Walsh, MC Berden, JA Brindle, KM Kell, DB Rowland, JJ Westerhoff, HV van Dam, K Oliver, SG	A functional genomics strategy that uses metabolome data to reveal the phenotype of silent mutations
		Merlotti, C Riba-Garcia, I Gaskell, SJ Yin, ZK Brown, A Cash, P Hayes, A Talbot, NJ Brass, A Paton, N Oliver, SG	COGEME - Consortium for the functional genomics of microbial eukaryotes: Facilities for the functional analysis of microbial genomes.
		Oliver, SG	Comparative and functional genomics
		King, RD Whelan, KE Jones, FM Reiser, PGK Bryant, CH Muggleton, SH Kell, DB Oliver, SG	Functional genomic hypothesis generation and experimentation by a robot scientist
		Oliver, SG	Functional genomics: lessons from yeast
		Allen, J Davey, HM Broadhurst, D Heald, JK Rowland, JJ Oliver, SG Kell, DB	High-throughput classification of yeast mutants for functional genomics using metabolic footprinting

País	Autor de Correspondência	Autor(es)	Título
		Kell, DB Allen, JK Davey, HM Broadhurst, DI Rowland, JJ Oliver, SG	Metabolic footprinting: a high-throughput, high-information approach to cellular characterisation and functional genomics.
		Delneri, D Brancia, FL Oliver, SG	Towards a truly integrative biology through the functional genomics of yeast
		Oliver, SG	Yeast as a model organism for functional genomics
		Castrillo, JO Oliver, SG	Yeast as a touchstone in post-genomic research: Strategies for integrative analysis in functional genomics
		Oliver, SG	Functional genomics: All the king's horses AND all the king's men CAN put humpty together again

Apesar da liderança em publicação pertencer aos EUA, a Inglaterra possui o autor mais representativo:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	394	-
Alemanha	76	-
Inglaterra	66	Oliver, SG
Japão	47	-

13.2 Nanobiotecnologia

Neste termo, apenas dois países se destacam: Estados Unidos e Alemanha, conforme tabela a seguir:

País	Autor de Correspondência	Autor(es)	Título
EUA	Gardea-Torresdey, JL	Armendariz, V Herrera, I Peralta-Videa, JR Jose-Yacaman, M Troiani, H Santiago, P Gardea-Torresdey, JL	Size controlled gold nanoparticle formation by Avena sativa biomass: use of plants in nanobiotechnology
	Klein, ML	Srinivas, G Klein, ML	Computational approaches to nanobiotechnology: probing the interaction of synthetic molecules with phospholipid bilayers via a coarse grain model
	Langer, R	Langer, R Peppas, NA	Advances in biomaterials, drug delivery, and bionanotechnology
	Renugopalakrishnan, V	Renugopalakrishnan, V Strzelczyk, A Li, PZ Mokhnatyuk, AA Gursahani, SH Nagaraju, M Prabhakaran, M Arjomandi, H Lakka, SL	Retroengineering bacteriorhodopsins: Design of smart proteins by bionanotechnology
	Tan, WH	Tan, WH Wang, KM He, XX Zhao, XJ Drake, T Wang, L Bagwe, RP	Bionanotechnology based on silica nanoparticles
	Taton, TA	Taton, TA	Bio-nanotechnology: Two-way traffic
	Webster, TJ	Webster, TJ Waid, MC McKenzie, JL Price, RL Ejiófor, JU	Nano-biotechnology: carbon nanofibres as improved neural and orthopaedic implants
	Whitesides, GM	Whitesides, GM	The 'right' size in nanobiotechnology
Alemanha	Niemeyer, CM	Niemeyer, CM	Bionanotechnology: Lessons from nature;
			Self-assembled nanostructures based on DNA: towards the development of nanobiotechnology;
			Semi-synthetic DNA-protein conjugates: novel tools in analytics and nanobiotechnology
	Klevenz, H	Klevenz, H	Nanobiotechnology: From molecules to systems
	Schempp, W	Schempp, W	Replication and transcription processes in the molecular biology of gene expressions: control paradigms of the DNA quantum holographic information channel in nanobiotechnology

O autor mais representativo é Niemeyer, C., com três artigos:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	8	-
Alemanha	5	Niemeyer, CM

13.3 In Silico Biology

Este termo apresenta apenas 4 artigos, sendo 3 dos Estados Unidos e 3 da Inglaterra, como pode ser visto na tabela abaixo.

País	Autor de Correspondência	Autor(es)	Título
EUA	Palsson, B	Palsson, B	In silico biology through "omics";
			The challenges of in silico biology
	Levin, JM	Levin, JM Penland, RC Stamps, AT Cho, CR	Using in silico biology to facilitate drug development
	Steele, FR	Steele, FR	In silico biology: More than computer games
Alemanha	Harrison, R	Harrison, R	Protecting innovation in bioinformatics and in-silico biology
Inglaterra	Anon	Anon	The Fourth Georgia Tech - University of Georgia International Conference in Bioinformatics: in silico Biology, Biological Networks, from Genomics to Epidemiology (November 13-16, 2003, Atlanta, Georgia, USA)
	Logsdon, J Fickett, J Koonin, E Sali, A Stormo, G Borodovsky, M	Logsdon, J Fickett, J Koonin, E Sali, A Stormo, G Borodovsky, M	The third Georgia Tech-Emory International Conference on Bioinformatics-In Silico Biology: Bioinformatics after the Human Genome (November 15-18,2001, Atlanta, Georgia, USA)
	Whiteley, AP	Whiteley, AP	Life Science informatics - Driving down the cost of in silico biology

Os 2 artigos do autor mais representativo, Palsson, B., serão considerados para indexação da Área de Conhecimento do CNPq.

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	4	Palsson, B
Inglaterra	3	-
Alemanha	1	-

14 Tema: Segurança Biológica

No tema “segurança biológica”, com 323 artigos, três países se destacam: Estados Unidos, Inglaterra e Alemanha:

País	Autor de Correspondência	Autor(es)	Título
EUA	Schmid, I	Schmid, I Merlin, S Perfetto, SP;	Biosafety concerns for shared flow cytometry core facilities;
		Schmid, I Dean, PN;	Introduction to the biosafety guidelines for sorting of unfixed cells;
		Schmid, I Nicholson, JKA Giorgi, JV Janossy, G Kunkl, A Lopez, PA Perfetto, S Seamer, LC Dean, PN;	Biosafety guidelines for sorting of unfixed cells;
		Schmid, I Kunkl, A Nicholson, JKA	Biosafety considerations for flow cytometric analysis of human immunodeficiency virus-infected samples
	Amass, SF	Amass, SF Halbur, PG Byrne, BA Schneider, JL Koons, CW Cornick, N Ragland, D;	Mechanical transmission of enterotoxigenic Escherichia coli to weaned pigs by people, and biosecurity procedures that prevented such transmission;
		Amass, SF Vyverberg, BD Ragland, D Dowell, CA Anderson, CD Stover, JH Beaudry, DJ;	Evaluating the efficacy of boot baths in biosecurity protocols;
		Amass, SF Clark, LK	Biosecurity considerations for pork production units
	Chyba, CF	Chyba, CF	Toward biological security;
			A unified definition of biosecurity - Response;
			Biological security in a changed world
	Meyerson, LA	Meyerson, LA Reaser, JK	Bioinvasions, bioterrorism, and biosecurity;
			A unified definition of biosecurity;
			Biosecurity: Moving toward a comprehensive approach
	Miller, HI	Miller, HI Arntzen, CJ Beachy, RN Cook, RJ Huttner, SL Kennedy, D Qualset, CO Raven, PH Vidaver, AK	Biosafety regulations;
			Biosafety protocol - Cynicism and politics dominate UN biotechnology deliberations
Richmond, JY	Richmond, JY Nesby-O'Dell, S;	Some issues for the biosafety protocol;	
		Biosecurity for animal facilities and associated laboratories;	
EUA (autores)	Richmond, JY	Richmond, JY Ruble, DL Brown, B Jaax, GP;	Working safely at animal biosafety levels 3 and 4: Facility design implications;

País	Autor de Correspondência	Autor(es)	Título
com mais de 1 artigo)		Richmond, JY Knudsen, RC Good, RC	Biosafety in the clinical mycobacteriology laboratory
	Dargatz, DA	Dargatz, DA;	Preface - Biosecurity of cattle operations;
		Dargatz, DA Garry, FB Traub-Dargatz, JL	An introduction to biosecurity of cattle operations
	Nolte, KB	Nolte, KB Taylor, DG Richmond, JY;	Biosafety considerations for autopsy;
		Nolte, KB Foucar, K Richmond, JY	Hantaviral biosafety issues in the autopsy room and laboratory: Concerns and recommendation
	Sanderson, MW	Sanderson, MW Dargatz, DA Garry, FB;	Biosecurity practices of beef cow-calf producers;
		Sanderson, MW Gnad, DP	Biosecurity for reproductive diseases
	Sewell, DL	Sewell, DL	Laboratory safety .1. Laboratorians at risk - The threat of exposure to infectious agents and the role of the biosafety program;
			Laboratory-associated infections and biosafety
	Smith, DR	Smith, DR;	Epidemiologic tools for biosecurity and biocontainment;
		Smith, DR Grotelueschen, DM	Biosecurity and biocontainment of bovine viral diarrhea virus
	Wells, SJ	Wells, SJ;	Biosecurity on dairy operations: Hazards and risks;
		Wells, SJ Dee, S Godden, S	Biosecurity for gastrointestinal diseases of adult dairy cattle
	Falkner, R	Falkner, R	The first meeting of the parties to the Cartagena Protocol on Biosafety;
			Regulating biotech trade: the Cartagena Protocol on Biosafety
	Atkinson, HJ	Celis, C Scurrah, M Cowgill, S Chumbiauca, S Green, J Franco, J Main, G Kiezebrink, D Visser, RGF Atkinson, HJ	Environmental biosafety and transgenic potato in a centre of diversity for this crop
	Berry, E	Berry, E Hillerton, E	Monitoring mastitis and maintaining biosecurity
	Blackwell, M	Blackwell, M	Biosecurity systems and animal health
Blowey, R	Blowey, R Davis, J	Monitoring mastitis and maintaining biosecurity	
Boness, J	Boness, J McFarland, J	National biosecurity against infectious diseases	
Caldow, G	Caldow, G	Biosecurity, does it have a place in the management of beef herds in the United Kingdom? (Reprinted)	
Cory, JS	Cory, JS Hails, RS	The ecology and biosafety of baculoviruses	

País	Autor de Correspondência	Autor(es)	Título
Inglaterra	Davison, HC	Davison, HC Smith, RP Sayers, AR Evans, SJ	Dairy farm characteristics, including biosecurity, obtained during a cohort study in England and Wales
	Donaldson, A	Donaldson, A Wood, D	Surveilling strange materialities: categorisation in the evolving geographies of FMD biosecurity
	Edwards, GT	Edwards, GT	Maedi-visna and biosecurity
	Gibbens, JC	Gibbens, JC Pascoe, SJS Evans, SJ Davies, RH Sayers, AR	A trial of biosecurity as a means to control Campylobacter infection of broiler chickens
	King, D	King, D	Biosafety agreement blocked
	Kirn, D	Vile, R Ando, D Kirn, D	The oncolytic virotherapy treatment platform for cancer: Unique biological and biosafety points to consider
	Lofstedt, R	Lofstedt, R	Good and bad examples of siting and building biosafety level 4 laboratories: a study of Winnipeg, Galveston and Etobicoke
	Minor, PD	Minor, PD	Biosafety consequences of eradication of wild-type polioviruses
	MUNSON, A	MUNSON, A	Should a biosafety protocol be negotiated as part of the biodiversity convention
	Newell, P	Newell, P Mackenzie, R	The 2000 Cartagena protocol on biosafety: legal and political dimensions
	Vogler, J	Vogler, J	The Cartagena Protocol on Biosafety: reconciling trade in biotechnology with environment and development?
Wrathall, AE	Wrathall, AE Simmons, HA Bowles, DJ Jones, S	Biosecurity strategies for conserving valuable livestock genetic resources	
Alemanha	Bartsch, D	Bartsch, D Schuphan, I;	Lessons we can learn from ecological biosafety research;
		Bartsch, D Brand, U Morak, C Pohl-Orf, M Schuphan, I Ellstrand, NC	Biosafety of hybrids between transgenic virus-resistant sugar beet and Swiss chard
	Edgerton, BF	Edgerton, BF	A review of international biosecurity policy development in relation to movements of freshwater crayfish.
	Esser, S	Lawrenz, B Schiller, H Willbold, E Ruediger, M Muhs, A Esser, S	Highly sensitive biosafety model for stem-cell-derived grafts
	Kurth, R	Kurth, R	Biosecurity: Risk and response
	Puhler, A	Droge, M Puhler, A Selbitschka, W	Horizontal gene transfer as a biosafety issue: A natural phenomenon of public concern
	Schubert, J	Schubert, J Matousek, J Mattern, D	Pathogen-derived resistance in potato to Potato virus Y - aspects of stability and biosafety under field conditions

País	Autor de Correspondência	Autor(es)	Título
Alemanha	Turek, J	Turek, J Meinert, S	Biosafety protocol in practice - Conflicts are still programmed
	van Aken, J	van Aken, J Johannsen, S Kollek, R	Biosecurity must be internationally supervised

O autor com a liderança em artigos é Schmid, I., com 4 artigos:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	85	Schmid, I
Inglaterra	21	-
Alemanha	9	-

A terminologia relacionada a este tema SEGURANÇA BIOLÓGICA não foi objeto de artigos na Web of Science no período considerado.

15 Tema: Sustentabilidade Ambiental

O tema “sustentabilidade ambiental” não foi objeto de publicações focadas na base de dados Web of Science.

TERMOS do Tema Sustentabilidade Ambiental

Quanto aos termos sugeridos (pelos especialistas) sobre esse tema, a tabela a seguir mostra o número de artigos localizados, com destaque para OGMs. Cabe ressaltar que o termo “controle biológico” não apresentou publicações no período considerado.

TEMA	TERMOS	Nº artigos focados
Sustentabilidade Ambiental	OGMs	293
	Bioinseticidas	27
	Biofungicidas	13

15.1 Organismos Geneticamente Modificados

Cinco países são predominantes em artigos: Estados Unidos, França, Itália, Inglaterra e Suíça conforme tabela a seguir:

País	Autor de Correspondência	Autor(es)	Título
EUA (autores com mais de 1 artigo)	Hedrick, PW	Hedrick, PW	Invasion of transgenes from salmon or other genetically modified organisms into natural populations;
			Invasion of transgenes from salmon or other genetically modified organisms into natural populations (vol 58, pg 841, 2001)
	Lauter, FR	Lauter, FR	GMO labeling: The need for and status of GM-DNA quantification
			GMO labeling: The need for and status of GM-DNA quantification
	Shah, JC	Sadhale, Y Shah, JC	Stabilization of insulin against agitation-induced aggregation by the GMO cubic phase gel;
			Biological activity of insulin in GMO gels and the effect of agitation
França (autores com mais de 1 artigo)	Alary, R	Alary, R Serin, A Maury, D Ben Jouira, H Sirven, JP Gautier, MF Joudrier, P;	Comparison of simplex and duplex real-time PCR for the quantification of GMO in maize and soybean;
			Comparison of simplex and duplex real-time PCR for the quantification of GMO in maize and soybean (vol 13, 235, 2002);

País	Autor de Correspondência	Autor(es)	Título
Itália (autores com mais de 1 artigo)	Anklam, E	Anklam, E;	The validation of methods based on polymerase chain reaction for the detection of genetically modified organisms in food;
		Anklam, E Gadani, F Heinze, P Pijnenburg, H Van Den Eede, G;	Analytical methods for detection and determination of genetically modified organisms in agricultural crops and plant-derived food products;
		Lipp, M Bluth, A Eyquem, F Kruse, L Schimmel, H Van den Eede, G Anklam, E	Validation of a method based on polymerase chain reaction for the detection of genetically modified organisms in various processed foodstuffs
	Minunni, M	Mariotti, E Minunni, M Mascini, M;	Surface plasmon resonance biosensor for genetically modified organisms detection;
		Minunni, M Tombelli, S Mariotti, E Mascini, M Mascini, M;	Biosensors as new analytical tool for detection of Genetically Modified Organisms (GMOs)
		Mannelli, I Minunni, M Tombelli, S Mascini, M	Quartz crystal microbalance (QCM) affinity biosensor for genetically modified organisms (GMOs) detection;
Inglaterra	Lichtenstein, C	Lichtenstein, C	Who's afraid of genetically modified organisms? Response;
			Who's afraid of genetically modified organisms? (2)
	Beringer, JE	Beringer, JE	Releasing genetically modified organisms: will any harm outweigh any advantage?
	Brookes, G	Brookes, G	Identity preservation of genetically modified organisms in the food chain: Requirements, methods, and costs
	Davies, KG	Davies, KG	What makes genetically modified organisms so distasteful?
	Gent, RN	Gent, RN	Genetically modified organisms: an analysis of the regulatory framework currently employed within the European Union
	Lack, G	Lack, G Chapman, M Kalsheker, N King, V Robinson, C Venables, K	Report on the potential allergenicity of genetically modified organisms and their products
Inglaterra	Levidow, L	Levidow, L	Genetically modified organisms: When culture determines the laws
	Lofstedt, RE	Lofstedt, RE Fischhoff, B Fischhoff, IR	Precautionary principles: General definitions and specific applications to genetically modified organisms
	McDowell, DG	Birch, L Archard, CL Parkes, HC McDowell, DG	Evaluation of LabChip (TM) technology for GMO analysis in food
	Popping, B	Popping, B	Methods for the detection of genetically modified organisms: Precision, pitfalls, and proficiency

País	Autor de Correspondência	Autor(es)	Título
	Powell, J	Powell, J Owen, L	Reliability of food measurements: the application of proficiency testing to GMO analysis
	Young, T	Burton, M Rigby, D Young, T James, S	Consumer attitudes to genetically modified organisms in food in the UK
Suíça (autores com mais de 1 artigo)	Hubner, P	Hubner, P Studer, E Luthy, J;	Quantitation of genetically modified organisms in food;
			Quantitative competitive PCR for the detection of genetically modified organisms in food;
		Hubner, P Studer, E Hafliger, D Stadler, M Wolf, C Looser, M	Detection of genetically modified organisms in food: critical points for duality assurance

A liderança de autoria são França, Itália e Suíça, respectivamente pelos autores Alary, R., Anklam, E. e Hubner, P.

PAÍS	Nº DE ARTIGOS	AUTORES MAIS REPRESENTATIVOS
EUA	37	-
França	22	Alary, R
Itália	18	Anklam, E
Inglaterra	13	-
Suíça	9	Hubner, P

15.2 Bioinseticidas

Com relação ao termo “bioinseticidas”, dos 27 artigos, 3 países aparecem com 3 ou mais artigos, dentre eles o **Brasil**:

País	Autor de Correspondência	Autor(es)	Título
EUA	Jackson, MA	Jackson, MA Payne, AR Odelson, DA;	Liquid-culture production of blastospores of the bioinsecticidal fungus <i>Paecilomyces fumosoroseus</i> using portable fermentation equipment;
		Jackson, MA Cliquet, S Iten, LB;	Media and fermentation processes for the rapid production of high concentrations of stable blastospores of the bioinsecticidal fungus <i>Paecilomyces fumosoroseus</i> ;
		Jackson, MA McGuire, MR Lacey, LA Wraight, SP	Liquid culture production of desiccation tolerant blastospores of the bioinsecticidal fungus <i>Paecilomyces fumosoroseus</i>
	Baum, JA	Baum, JA Kakefuda, M GawronBurke, C	Engineering <i>Bacillus thuringiensis</i> bioinsecticides with an indigenous site-specific recombination system
	Thiem, SM	Thiem, SM	Prospects for altering host range for baculovirus bioinsecticides

País	Autor de Correspondência	Autor(es)	Título
México	Armenta, R	Armenta, R Martinez, AM Chapman, JW Magallanes, R Goulson, D Caballero, P Cave, RD Cisneros, J Valle, J Castillejos, V Penagos, DI Garcia, LF Williams, T	Impact of a nucleopolyhedrovirus bioinsecticide and selected synthetic insecticides on the abundance of insect natural enemies on maize in Southern Mexico
	Garcia-Alvarado, JS	Castro-Franco, R Garcia-Alvarado, JS Galan-Wong, LJ	An alternative bioinsecticide formulation to encapsulate Bacillus thuringiensis delta toxin and extracts of Agave lecheguilla Torr. for the control of Spodoptera frugiperda Smith
	Martinez, AM	Martinez, AM Goulson, D Chapmann, JW Caballero, P Cave, RD Williams, T	Is it feasible to use optical brightener technology with a Baculovirus bioinsecticide for resource-poor maize farmers in mesoamerica?
	Williams, T	Williams, T Goulson, D Caballero, P Cisneros, J Martinez, AM Chapman, JW Roman, DX Cave, RD	Evaluation of a baculovirus bioinsecticide for small-scale maize growers in Latin America
Brasil	Andrade, G	Ferreira, LHPL Molina, JC Brasil, C Andrade, G	Evaluation of Bacillus thuringiensis bioinsecticidal protein effects on soil microorganisms
	Carlini, CR	Carlini, CR Grossi-de-Sa, MF	Plant toxic proteins with insecticidal properties. A review on their potentialities as bioinsecticides
	CARRANOMOREIRA, AF	CARRANOMOREIRA, AF ALL, J	Screening of bioinsecticides against the cotton bollworm on cotton

Como autor mais representativo da amostra, tem-se Jackson, M., com 3 artigos:

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	5	Jackson, MA
México	4	-
Brasil	3	-

15.3 Biofungicidas

Neste termo, 8 países aparecem com artigos, sem liderança em termos de autoria, sendo que todos os autores têm uma publicação, conforme pode ser visto na tabela abaixo:

País	Autor de Correspondência	Autor(es)	Título
EUA	Shishkoff, N;	Shishkoff, N McGrath, MT;	AQ10 biofungicide combined with chemical fungicides or AddQ spray adjuvant for control of cucurbit powdery mildew in detached leaf culture;
	Janisiewicz, WJ;	Janisiewicz, WJ Jeffers, SN;	Efficacy of commercial formulation of two biofungicides for control of blue mold and gray mold of apples in cold storage;
	Hofstein, R	Hofstein, R Daoust, RA Aeschlimann, JP	Constraints to the development of biofungicides: The example of "AQ10", a new product for controlling powdery mildews
Finlândia	TUOMI, T	TUOMI, T LAAKSO, S ROSENQVIST, H	Indole-3-acetic-acid (iaa) production by a biofungicide streptomyces-griseoviridis strain
Índia	Singh, A	Singh, A Monica, BU	Evaluation of bio-fungicidal properties of some plant extracts on the growth of Schizophyllum commune
Itália	Migheli, Q	Minuto, A Minuto, G Migheli, Q Mocioni, M Gullino, ML	Effect of antagonistic Fusarium spp. and of different commercial biofungicide formulations on Fusarium wilt of basil (<i>Ocimum basilicum</i> L.)
Kuwait	Suleman, P	Suleman, P Al-Musallam, A Menezes, CA	The effect of biofungicide Mycostop on <i>Ceratocystis radicola</i> , the causal agent of black scorch on date palm
Nigéria	Donli, PO	Donli, PO Dauda, H	Evaluation of aqueous Moringa seed extract as a seed treatment biofungicide for groundnuts
Porto Rico	SANCHEZ, A	SANCHEZ, A ECHAVEZBADEL, R SCHRODER, EC	<i>Pseudomonas-cepacia</i> , a potential biofungicide for root-rot pathogens of beans
Rússia	FILIPPOV, AV	FILIPPOV, AV KUZNETZOVA, MA	Different influence of some biofungicides on the dynamics of potato plants susceptibility to <i>phytophthora-infestans</i> (mont) d-by

Uma vez que não há liderança em autoria, todos os artigos são considerados para indexação das Áreas de Conhecimento do CNPq.

PAÍS	Nº DE ARTIGOS	AUTOR MAIS REPRESENTATIVO
EUA	3	-
Finlândia	1	-
Índia	1	-
Itália	1	-
Kuwait	1	-
Nigéria	1	-
Porto Rico	1	-
Rússia	1	-

Anexo:
Artigos reincidentes em diferentes temas e/ou termos

Artigos reinidentes entre temas distintos:

TEMA		Autor	Título do Artigo	
Biodiversidade/Bioprospecção	Bioinformática	Redfearn, J	Bioinformatics - OECD to set up global facility on biodiversity	
	Bioterrorismo	Dudley, JP Woodford, MH	Bioweapons, bioterrorism and biodiversity: potential impacts of biological weapons attacks on agricultural and biological diversity	
		Dudley, JP Woodford, MH	Bioweapons, biodiversity, and ecocide: Potential effects of biological weapons on biological diversity	
	Metagenômica	Bruggeman, TJ	Innovations in drug discovery and development - Trends in gene prospecting - Microbial biodiversity provides new leads for drug discovery	
		Day-Rubenstein, K Frisvold, GB	Genetic prospecting and biodiversity development agreements	
		Knietsch, A Waschkowitz, T Bowien, S Henne, A Daniel, R	Construction and screening of metagenomic libraries derived from enrichment cultures: Generation of a gene bank for genes conferring alcohol oxidoreductase activity on <i>Escherichia coli</i>	
		Nader, W Rojas, M	Gene prospecting for sustainable use of the biodiversity in Costa Rica	
	Segurança Biológica	KELLENBERGER, E	GENETIC ECOLOGY - A NEW INTERDISCIPLINARY SCIENCE, FUNDAMENTAL FOR EVOLUTION, BIODIVERSITY AND BIOSAFETY EVALUATIONS	
		PUTTERMAN, D	BIODIVERSITY TREATY NATIONS TO STUDY BIOSAFETY PROTOCOL	
		MUNSON, A	SHOULD A BIOSAFETY PROTOCOL BE NEGOTIATED AS PART OF THE BIODIVERSITY CONVENTION	
		MUNSON, A	SHOULD A BIOSAFETY PROTOCOL BE NEGOTIATED AS PART OF THE BIODIVERSITY CONVENTION (VOL 5, PG 1, 1995)	
		Anon	POSSIBLE BIOSAFETY PROTOCOL UNDER BIODIVERSITY CONVENTION - SUMMARY OF MADRID EXPERTS MEETING	
	Bioindústria	Segurança Biológica	Anon	European Bio-industries welcome biosafety Protocol agreement
	Biorremediação	Metagenômica	Ow, DW	Heavy metal tolerance genes: Prospective tools for bioremediation

TEMA		Autor	Título do Artigo
Bioterrorismo	Segurança Biológica	Espy, MJ Uhl, JR Sloan, LM Rosenblatt, JE Cockerill, FR Smith, TF	Detection of vaccinia virus, herpes simplex virus, varicella-zoster virus, and Bacillus anthracis DNA by LightCycler polymerase chain reaction after autoclaving: Implications for biosafety of bioterrorism agents
		Meyerson, LA Reaser, JK	Bioinvasions, bioterrorism, and biosecurity
		Malakoff, D	Bioterrorism - Biosecurity goes global

Artigos recorrentes entre temas e termos:

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Conhecimento Tradicional (Biodiversidade / Bioprospecção) & Propriedade Intelectual (Biodiversidade / Bioprospecção)	Gupta, AK	Rewarding creativity in conserving biodiversity in the third world: Can intellectual property rights serve the needs of contemporary and traditional knowledge experts and communities in the third world?
	Herbário e Demais Formas de Conservação Ex Situ (Biodiversidade / Bioprospecção)	Gimaret-Carpentier, C Dray, S Pascal, JP	Broad-scale biodiversity pattern of the endemic tree flora of the Western Ghats (India) using canonical correlation analysis of herbarium records
	Legislação Ágil e Eficiente (Biodiversidade / Bioprospecção)	Anon	Brazil considers biodiversity legislation
		Xue, DY	The legislation, enforcement, and further needs for biodiversity conservation in China
		Xu, HG Wang, SQ Xue, DY	Biodiversity conservation in China: Legislation, plans and measures
		Broggio, M	Agricultural innovation and biodiversity: Legislation and abuse
	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	Kidd, AH Kidd, RM	Aquarium visitors' perceptions and attitudes toward the importance of marine biodiversity
		Huisman, JM Cowan, RA Entwisle, TJ	Biodiversity of Australian marine macroalgae - A progress report
		Heip, C	Marine biodiversity
		Vargas, R Cortes, J	Costa Rican marine biodiversity: Orden Stomatopoda (Crustacea : Hoplocarida)
		Schalk, PH	Management of marine natural resources through by biodiversity informatics
		Sakko, AL	The influence of the Benguela upwelling system on Namibia's marine biodiversity
		Medlin, L	Marine biodiversity: Patterns and processes

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	Vanderklift, MA Ward, TJ Phillips, JC	Use of assemblages derived from different taxonomic levels to select areas for conserving marine biodiversity
		Ellis, DV Macdonald, VI	Rapid preliminary assessment of seabed biodiversity for the marine and coastal mining industries
		Snelgrove, PVR	The biodiversity of macrofaunal organisms in marine sediments
		Snelgrove, PVR	Getting to the bottom of marine biodiversity: Sedimentary habitats - Ocean bottoms are the most widespread habitat on Earth and support high biodiversity and key ecosystem services
		Pharisat, A	Marine fish biodiversity in the Oligocene of Froidefontaine (Belfort Territory, France)
		Wilder, RJ Tegner, MJ Dayton, PK	Saving marine biodiversity
	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	Morri, C Bianchi, CN Cocito, S Peirano, A De Biase, AM Aliani, S Pansini, M Boyer, M Ferdeghini, F Pestarino, M Dando, P	Biodiversity of marine sessile epifauna at an Aegean island subject to hydrothermal activity: Milos, eastern Mediterranean Sea
		Thomas, JD	A model for siting marine protected areas in coral reefs: A synthesis of geology and biodiversity.
		Vargas, R Cortes, J	Marine biodiversity of Costa Rica: Crustacea : Decapoda (Penaeoidea, Sergestoidea, Stenopodidea, Caridea, Thalassinidea, Palinura) from the Caribbean
		Vargas, R Cortes, J	Marine biodiversity of Costa Rica: Crustacea : Decapoda (Penaeoidea, Sergestoidea, Caridea, Astacidea, Thalassinidea, Palinura) from the Pacific
		Vecchione, M Mickevich, WF Fauchald, K Collette, BB Williams, AB Munroe, TA Young, RE	Importance of assessing taxonomic adequacy in determining fishing effects on marine biodiversity

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	Duarte, CM	Marine biodiversity and ecosystem services: an elusive link
		Zacharias, MA Roff, JC	A hierarchical ecological approach to conserving marine biodiversity
		Sepkoski, JJ	Crustacean biodiversity through the marine fossil record
		Foote, M	Crustacean biodiversity through the marine fossil record - Addendum
		Snelgrove, PVR Austen, MC Boucher, G Heip, C Hutchings, PA King, GM Koike, I Lamshead, PJD Smith, CR	Linking biodiversity above and below the marine sediment-water interface
		Ng, PKL Tan, KS	The state of marine biodiversity in the South China Sea
		Emmerson, MC Solan, M Emes, C Paterson, DM Raffaelli, D	Consistent patterns and the idiosyncratic effects of biodiversity in marine ecosystems
		Budd, AF Foster, CT Dawson, JP Johnson, KG	The Neogene Marine Biota of Tropical America ("NMITA") database: Accounting for biodiversity in paleontology
		Wall, DH Palmer, MA Snelgrove, PVR	Biodiversity in critical transition zones between terrestrial, freshwater, and marine soils and sediments: Processes, linkages, and management implications
		Phillips, JA	Marine macroalgal biodiversity hotspots: why is there high species richness and endemism in southern Australian marine benthic flora?
		Gray, JS	Antarctic marine benthic biodiversity in a world-wide latitudinal context
		Thrush, SF Hewitt, JE Funnell, GA Cummings, VJ Ellis, J Schultz, D Talley, D Norkko, A	Fishing disturbance and marine biodiversity: role of habitat structure in simple soft-sediment systems
		Coleman, FC Williams, SL	Overexploiting marine ecosystem engineers: potential consequences for biodiversity

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	Thrush, SF Hewitt, JE Funnell, GA Cummings, VJ Ellis, J Schultz, D Talley, D Norkko, A	Fishing disturbance and marine biodiversity: the role of habitat structure in simple soft-sediment systems
		Roberts, CM McClean, CJ Veron, JEN Hawkins, JP Allen, GR McAllister, DE Mittermeier, CG Schueler, FW Spalding, M Wells, F Vynne, C Werner, TB	Marine biodiversity hotspots and conservation priorities for tropical reefs
		Barnes, DKA	Biodiversity - Invasions by marine life on plastic debris
		Pugh, PJA Dartnall, HJG Mcinnes, SJ	The non-marine Crustacea of Antarctica and the Islands of the Southern Ocean: biodiversity and biogeography
		Beaugrand, G Reid, PC Ibanez, F Lindley, JA Edwards, M	Reorganization of North Atlantic marine copepod biodiversity and climate
		Dean, HK	Marine biodiversity of Costa Rica: The phyla Sipuncula and Echiura
		Stachowicz, JJ Fried, H Osman, RW Whitlatch, RB	Biodiversity, invasion resistance, and marine ecosystem function: Reconciling pattern and process
		Thrush, SF Hewitt, JE Funnell, GA Cummings, VJ Ellis, J Schultz, D Talley, D Norkko, A	Fishing disturbance and marine biodiversity: role of habitat structure in simple soft-sediment systems (vol 221, pg 255, 2001)
		Price, ARG	Simultaneous 'hotspots' and 'coldspots' of marine biodiversity and implications for global conservation
		Thrush, SF Dayton, PK	Disturbance to marine benthic habitats by trawling and dredging: Implications for marine biodiversity
		Hoel, AH	Marine biodiversity and institutional interplay
		Olsgard, F Brattegard, T Holthe, T	Polychaetes as surrogates for marine biodiversity: lower taxonomic resolution and indicator groups

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	Nichols, SA Barnes, PAG Hickman, CS	Biodiversity, and distribution with respect to substrate and depth, of marine sponges of the Caribbean coast of Panama.
		Raghukumar, S Anil, AC	Marine biodiversity and ecosystem functioning: A perspective
		Bax, N Williamson, A Aguero, M Gonzalez, E Geeves, W	Marine invasive alien species: a threat to global biodiversity
		Sevilla, LR Vargas , R Cortes, J	Marine biodiversity of Costa Rica: Gastropods (Mollusca : Gastropoda) from the Caribbean coast
		Malakoff, D	Marine research - Scientists counting on census to reveal marine biodiversity
		Vadrucci, MR Vignes, F Fiocca, A Basset, A Santarpia, I Carrada, GC Cabrini, M Umani, SF	Space-time patterns of co-variation of biodiversity and primary production in phytoplankton guilds of coastal marine environments
		Michaud, L Di Cello, F Brilli, M Fani, R Lo Giudice, A Bruni, V	Biodiversity of cultivable psychrotrophic marine bacteria isolated from Terra Nova Bay (Ross Sea, Antarctica)
		Kendall, MS Christensen, JD Caldow, C Coyne, M Jeffrey, C Monaco, ME Morrison, W Hillis-Starr, Z	The influence of bottom type and shelf position on biodiversity of tropical fish inside a recently enlarged marine reserve
		Anon	Marine environment sidelined at biodiversity convention
		Cognetti, G Maltagliati, F	Strategies of genetic biodiversity conservation in the marine environment
		Luque, JL Mouillot, D Poulin, R	Parasite biodiversity and its determinants in coastal marine teleost fishes of Brazil
		Irigoién, X Huisman, J Harris, RP	Global biodiversity patterns of marine phytoplankton and zooplankton

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	Schwabe, E	The Polyplacophora (Mollusca) collected during the First International Marine Biodiversity Workshop for Rodrigues (western Indian Ocean), with the description of a new species
		Dandy, N	Intellectual property, biodiversity and sustainable development: Resolving the difficult issues
		CULOTTA, E	IS MARINE BIODIVERSITY AT RISK
		CULOTTA, E	IS MARINE BIODIVERSITY AT RISK (VOL 263, PG 918, 1994)
		VECCHIONE, M COLLETTE, BB	NATIONAL-SYSTEMATICS-LABORATORY - THE NSL WORKS TOWARD HEALTHY MARINE BIODIVERSITY
		HOCKEY, PAR BRANCH, GM	CONSERVING MARINE BIODIVERSITY ON THE AFRICAN COAST - IMPLICATIONS OF A TERRESTRIAL PERSPECTIVE
		DEVRIES, DJ HALL, MR	MARINE BIODIVERSITY AS A SOURCE OF CHEMICAL DIVERSITY
		KENSLEY, B NELSON, WG SCHOTTE, M	MARINE ISOPOD BIODIVERSITY OF THE INDIAN-RIVER LAGOON, FLORIDA
		BOROWITZKA, MA	BIOTECHNOLOGY AND MARINE BIODIVERSITY
		Ghabbour, SI	THE ALGHERO-CONVENTION ON COASTAL AND MARINE BIODIVERSITY IN THE REGION, HELD IN TEATRO-CIVICO, ALGHERO (SARDINIA), ITALY, DURING 19-22 JANUARY 1995 MEDITERRANEAN
		Boucher, G Lamshead, PJD	Ecological biodiversity of marine nematodes in samples from temperate, tropical, and deep sea regions
		Brownell, RL Ralls, K Perrin, WF	Marine mammal biodiversity – Three diverse orders encompass 119 species
		Anon	Marine biodiversity

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	Ormond, RFG	Marine biodiversity: Causes and consequences
		Gee, JM Warwick, RM	A study of global biodiversity patterns in the marine motile fauna of hard substrata
		BellanSantini, D Arnaud, PM Bellan, G Verlaque, M	The influence of the introduced tropical alga <i>Caulerpa taxifolia</i> , on the biodiversity of the Mediterranean marine biota
		Baker, JT Bell, JD Murphy, PT	Australian deliberations on access to its terrestrial and marine biodiversity
		Baker, JT	Australian deliberations on access to its terrestrial and marine biodiversity - Discussion
		Murphy, DD Duffus, DA	Conservation biology and marine biodiversity
		Irish, KE Norse, EA	Scant emphasis on marine biodiversity
		Morton, B	Protecting Hong Kong's marine biodiversity: Present proposals, future challenges
		Ray, GC	Coastal-marine discontinuities and synergisms: Implications for biodiversity conservation
		Kriwoken, LK	Australian biodiversity and marine protected areas
		Cortes, J	Marine biodiversity of Costa Rica: Phylum porifera [SPA.
		Norse, EA MathewsAmos, A	Marine biodiversity budget
		Potter, D Lajeunesse, TC Saunders, GW Anderson, RA	Convergent evolution masks extensive biodiversity among marine coccoid picoplankton
		Gray, JS	Marine biodiversity: Patterns, threats and conservation needs
		Cortes, J	Costa Rican marine biodiversity: Phylum Cnidaria
		Snelgrove, P Blackburn, TH Hutchings, PA Alongi, DM Grassle, JF Hummel, H King, G Koike, I Lamshead, PJD Ramsing, NB Solis-Weiss, V	The importance of marine sediment biodiversity in ecosystem processes

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	Beardall, J Beer, S Raven, JA	Biodiversity of marine plants in an era of climate change: Some predictions based on physiological performance
		Schubel, JR	Marine biodiversity: The hidden crisis
		Le Loeuff, P von Cosel, R	Biodiversity patterns of the marine benthic fauna on the Atlantic coast of tropical Africa in relation to hydroclimatic conditions and paleogeographic events
		Brailovskaya, T	Obstacles to protecting marine biodiversity through marine wilderness preservation: Examples from the New England region
		Wall, DH	Biodiversity and ecosystem functioning - A special issue devoted to belowground biodiversity in soils and freshwater and marine sediments
		Tintori, A	Fish biodiversity in the marine Norian (Late Triassic) of northern Italy: the first Neopterygian radiation
		Sponga, F Cavaletti, L Lazzarini, A Borghi, A Ciciliato, I Losi, D Marinelli, F	Biodiversity and potentials of marine-derived microorganisms
		Bianchi, CN Morri, C	Marine biodiversity of the Mediterranean Sea: Situation, problems and prospects for future research
		Boschi, EE	Biodiversity of marine decapod brachyurans of the Americas
		Chapman, M	The living ocean: Understanding and protecting marine biodiversity
		Mikkelsen, PM Cracraft, J	Marine biodiversity and the need for systematic inventories
		Warwick, RM Clarke, KR	Practical measures of marine biodiversity based on relatedness of species
		Pugh, PJA Scott, B	Biodiversity and biogeography of non-marine Mollusca on the islands of the Southern Ocean

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	Quinn, RJ Leone, PD Guymer, G Hooper, JNA	Australian biodiversity via its plants and marine organisms. A high-throughput screening approach to drug discovery
		Morales-Ramirez, A	Costa Rica's marine biodiversity, microcrustaceans: Subclass Copepoda (Crustacea : Maxillopoda)
		Warwick, RM Turk, SM	Predicting climate change, effects on marine biodiversity: comparison of recent and fossil molluscan death assemblages
		Lewis, PN Hewitt, CL Riddle, M McMinn, A	Marine introductions in the Southern Ocean: an unrecognised hazard to biodiversity
		Hastings, A Botsford, LW	Comparing designs of marine reserves for fisheries and for biodiversity
		Turpie, JK Heydenrych, BJ Lamberth, SJ	Economic value of terrestrial and marine biodiversity in the Cape Floristic Region: implications for defining effective and socially optimal conservation strategies
		Taylor, PD Gordon, DP	Endemic new cyclostome bryozoans from Spirits Bay, a New Zealand marine-biodiversity "hotspot"
		Cappo, M Speare, P De'ath, G	Comparison of baited remote underwater video stations (BRUVS) and prawn (shrimp) trawls for assessments of fish biodiversity in inter-reefal areas of the Great Barrier Reef Marine Park
		Jones, GP McCormick, MI Srinivasan, M Eagle, JV	Coral decline threatens fish biodiversity in marine reserves
		Covich, AP Austen, MC Barlocher, F Chauvet, E Cardinale, BJ Biles, CL Inchausti, P Dangles, O Solan, M Gessner, MO Statzner, B Moss, B	The role of Biodiversity in the functioning of freshwater and marine benthic ecosystems
		SUCHANEK, TH	TEMPERATE COASTAL MARINE COMMUNITIES - BIODIVERSITY AND THREATS

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Biodiversidade Marinha (Biodiversidade / Bioprospecção)	MILEWSKI, IA	MARINE BIODIVERSITY SHAPING A POLICY FRAMEWORK
		Anon	OCEAN-VOICE-INTERNATIONAL - CONSERVING MARINE BIODIVERSITY, FOSTERING EQUITABLE SUSTAINABLE HARVESTING
		Charlton, JT Butman, CA	Understanding marine biodiversity - A research agenda for the nation
		VECCHIONE, M COLLETTE, BB	Fisheries agencies and marine biodiversity
		Snelgrove, P	Why care about marine biodiversity?
		Warwick, RM	Marine biodiversity a selection of papers presented at the conference "Marine Biodiversity: Causes and Consequences", York, UK, 30 August 2 September 1994 - Introduction
	Myers, AA	Biogeographic barriers and the development of marine biodiversity	
	Acesso ao patrimônio Genético (Biodiversidade / Bioprospecção)	Ali, S Hasnain, SE	Conservation, management and documentation of livestock genetic resources and biodiversity: A biotechnology perspective
		Rausser, GC Small, AA	Valuing research leads bioprospecting and the conservation of genetic resources
		MORAN, D	The commercial use of biodiversity: access to genetic resources and benefit-sharing.
		Ferreira, VF	Biodiversity, Genetic Resources and Scientific Policy Act
		Dovc, P Susnik, S Snoj, A	Experience from Lipizzan horse and salmonid species endemic to the Adriatic river system - Examples for the application of molecular markers for preservation of biodiversity and management of animal genetic resources

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Acesso ao patrimônio Genético (Biodiversidade / Bioprospecção)	Reid, WV Laird, SA Meyer, CA Gamez, R Sittenfeld, A Janzen, DH Gollin, MA Juma, C	Appendix I: United Nations Convention on biological diversity (Reprinted from Biodiversity Prospecting: Using Genetic Resources for Sustainable Development, pg 303-324, 1993)
		Adair, JR	The bioprospecting question: Should the United States charge biotechnology companies for the commercial use of public wild genetic resources?
	Propriedade Intelectual (Biodiversidade / Bioprospecção)	Dobhal, R	Recognizing biodiversity and indigenous knowledge system under new intellectual property regime
		Bhat, MG	On biodiversity access, intellectual property rights, and conservation
		Utkarsh, G Gadgil, M Rao, PRS	Intellectual property rights on biological resources: Benefiting from biodiversity and people's knowledge
		Kelly, L	Intellectual property rights, trade and biodiversity.
		Merson, J	Bio-prospecting or bio-piracy: Intellectual property rights and biodiversity in a colonial and postcolonial context
		HURLBUT, D	FIXING THE BIODIVERSITY CONVENTION - TOWARD A SPECIAL PROTOCOL FOR RELATED INTELLECTUAL PROPERTY
		CHRISTIE, J	INDIGENOUS PEOPLES, BIODIVERSITY AND INTELLECTUAL PROPERTY-RIGHTS
		Iwu, MM	Biodiversity prospecting in Nigeria: Seeking equity and reciprocity in intellectual property rights through partnership arrangements and capacity building
		Shiva, V	Agricultural biodiversity, intellectual property rights and farmers' rights
		Kothari, A Anuradha, RV	Biodiversity, intellectual property rights, and GATT agreement - How to address the conflicts

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biodiversidade / Bioprospecção	Bioprodutos (Bioindústria)	KHOSHOO, TN	BIODIVERSITY, BIOPRODUCTIVITY AND BIOTECHNOLOGY
Bioinformática	Aplicações para Genomas, Proteomas e Biodiversidade (Bioinformática)	Anon	Amersham Pharmacia Biotech joins with Cimarron Software to create integrated bioinformatics for its sequencing and proteomics systems
		Hohn, A	GeneData AG - Integrated bioinformatics solutions for genomics and proteomics
		Hancock, WS	Integrated view of bioinformatics for both genomics and proteomics.
		Smith, CM	Bioinformatics, genomics, and proteomics
		Brancia, FL Butt, A Beynon, RJ Hubbard, SJ Gaskell, SJ Oliver, SG	A combination of chemical derivatisation and improved bioinformatic tools optimises protein identification for proteomics
	Aplicações para Genomas, Proteomas e Biodiversidade (Bioinformática)	Wissler, JH Bai, YS	Proteomics, genomics, bioinformatics and biotechnology of natural plantal vitamin C (L-ascorbic acid) synthesis: L-galactono-1,4-lactone : ferricytochrome-c-oxidoreductase [GOR, EC1.3.2.3, chiral specificity and relations to cation-transport ATPases.
		Demirev, PA Lin, JS Pineda, FJ Fenselau, C	Bioinformatics and mass spectrometry for microorganism identification: Proteome-wide post-translational modifications and database search algorithms for characterization of intact H-pylori
		Vihinen, M	Bioinformatics in proteomics
		Kellam, P	Post-genomic virology: the impact of bioinformatics, microarrays and proteomics on investigating host and pathogen interactions
		Campbell, AM Heyer, LJ	Genomics, proteomics & bioinformatics: A lecture course with online resources

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Bioinformática	Aplicações para Genomas, Proteomas e Biodiversidade (Bioinformática)	Sidhu, KS Sangvanich, P Brancia, FL Sullivan, AG Gaskell, SJ Wolkenhauer, O Oliver, SG Hubbard, SJ	Bioinformatic assessment of mass spectrometric chemical derivatisation techniques for proteome database searching
		Binz, PA Martin, A Taussig, M de Daruvar, A	Conference report: The ESF programme on integrated approaches for functional genomics. Workshop on 'Data integration in functional genomics and proteomics' - October 15-17th, 2001; Swiss Institute of Bioinformatics, Geneva, Switzerland
		Bartlett, J	Genomics, proteomics and beyond: Meeting the information needs of bioinformatics researchers
		Sinhaikul, S Sookkheo, B Topanuruk, S Juan, HF Phutrakul, S Chen, ST	Bioinformatics, functional genomics, and proteomics study of Bacillus sp.
		Sonderegger, M Staniszewski, K Meyers, A Siuzdak, G	A bioinformatics approach for mass spectrometry data processing: Applications to proteomics and small molecule analysis
		Li, JN Zhang, Z Rosenzweig, J Wang, YY Chan, DW	Proteomics and bioinformatics approaches for identification of serum biomarkers to detect breast cancer
		Juan, HF Lin, JYC Chang, WH Wu, CY Pan, TL Tseng, MJ Khoo, KH Chen, ST	Biomic study of human myeloid leukemia cells differentiation to macrophages using DNA array, proteomic, and bioinformatic analytical methods
		Daly, MB Ozols, RF	The search for predictive patterns in ovarian cancer: Proteomics meets bioinformatics
		Eddes, JS Kapp, EA Frecklington, DF Connolly, LM Layton, MJ Moritz, RL Simpson, RJ	CHOMPER: A bioinformatic tool for rapid validation of tandem mass spectrometry search results associated with high-throughput proteomic strategies
		Akay, M	Scanning the issue - Bioinformatics, part II: Genomics and proteomics engineering in medicine and biology

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Bioinformática	Aplicações para Genomas, Proteomas e Biodiversidade (Bioinformática)	Campbell, A Heyer, LJ Abele, A Akin, B Choi, HD Karnik, P Moskowitz, D Oldham, EE	Helping students discover genomics, proteomics and bioinformatics
		Carpi, A Di Maira, G Vedovato, M Rossi, V Naccari, T Floriduz, M Terzi, M Filippini, F	Comparative proteome bioinformatics: Identification of a whole complement of putative protein tyrosine kinases in the model flowering plant Arabidopsis thaliana
		Turk, BE Cantley, LC	Peptide libraries: at the crossroads of proteomics and bioinformatics
		Casciano, DA	There is no place like ome: Omics at the NCTR: Genomics-proteomics-metabonomics-bioinformatics
		Petricoin, E	Serum proteomic pattern diagnostics: Use of artificial intelligence bioinformatics to discover surrogate markers for early disease.
		Zhang, J Zong, CG Vondriska, TM Qiao, XJ Cardwell, EM Ping, PP	Proteomic mapping of cardiac protective signaling complexes using blue native electrophoresis and bioinformatic modeling
		Ariel, N Zvi, A Makarova, KS Chitlaru, T Elhanany, E Velan, B Cohen, S Friedlander, AM Shafferman, A	Genome-based bioinformatic selection of chromosomal Bacillus anthracis putative vaccine candidates coupled with proteomic identification of surface-associated antigens
		Liu, SQ Guo, T Li, XL Sun, ZR	Bioinformatical study on the proteomics and evolution of SARS-CoV
		Giometti, CS	Proteomics and bioinformatics
		Dos Remedios, CG Liew, CC Allen, PD Winslow, RL Van Eyk, JE Dunn, MJ	Genomics, proteomics and bioinformatics of human heart failure
		Lundgren, DH Eng, J Wright, ME Han, DK	PROTEOME-3D: An interactive bioinformatics tool for large-scale data exploration and knowledge discovery

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Bioinformática	Aplicações para Genomas, Proteomas e Biodiversidade (Bioinformática)	Wilke, A Ruckert, C Bartels, D Dondrup, M Goesmann, A Huser, AT Kespohl, S Linke, B Mahne, M McHardy, A Puhler, A Meyer, F	Bioinformatics support for high-throughput proteomics
		Weinstein, JN Reinhold, WC Nishizuka, S Bussey, K Kohn, KW Pommier, Y Zeeberg, B Kim, S Lababidi, S	Integrating genomic, proteomic, and bioinformatic analyses for cancer drug discovery.
		Thongboonkerd, V Klein, JB	Practical bioinformatics for proteomics
		Bensmail, H Haoudi, A	Postgenomics: Proteomics and bioinformatics in cancer research
		Pruess, M Apweiler, R	Bioinformatics resources for in silico proteome analysis
		Cuda, G Cannataro, M Quaresima, B Baudi, F Casadonte, R Faniello, MC Tagliaferri, P Veltri, P Costanzo, F Venuta, S	Proteomic profiling of inherited breast cancer: Identification of molecular targets for early detection, prognosis and treatment, and related bioinformatics tools
		Jiang, XS Zhou, H Zhang, L Sheng, QH Li, SJ Li, L Hao, P Li, YX Xia, QC Wu, JR Zeng, R	A high-throughput approach for subcellular proteome - Identification of rat liver proteins using subcellular fractionation coupled with two-dimensional liquid chromatography tandem mass spectrometry and bioinformatic analysis
		Pallavicini, MG Patwardhan, A	Scientific tutorial II. Proteomics: Differential protein analyses using mass spectrometry and bioinformatics
		Craig, P Zapotyczny, J	Using Simulations to introduce proteomics and bioinformatics to undergraduates
		Wiemer, JC Prokudin, A	Bioinformatics in proteomics: application, terminology, and pitfalls
		White, CN Chan, DW Zhang, Z	Bioinformatics strategies for proteomic profiling
Jamet, E	Bioinformatics as a critical prerequisite to transcriptome and proteome studies		

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Bioinformática	Genômica Funcional (Programas de Descoberta)	Xu, XQ Leow, CK Lu, X Zhang, XG Liu, JS Wong, WH Asperger, A Deininger, S Leung, HCE	Molecular classification of liver cirrhosis in a rat model by proteomics and bioinformatics
		Smith, TF	Functional genomics - bioinformatics is ready for the challenge
		Amin, AR	Gene mining, bioinformatics and functional genomics in human arthritis and inflammatory diseases ex vivo
		Claverie, JM	New bioinformatics approaches in functional genomics
		Sedlak, BJ	Functional genomics - Model systems & bioinformatics tools streamline bioprocessing
		Braun, RE Cassen, V	Virtual reproductive genetics: Applying functional genomics and bioinformatics to research on male reproduction.
		Binz, PA Martin, A Taussig, M de Daruvar, A	Conference report: The ESF programme on integrated approaches for functional genomics. Workshop on 'Data integration in functional genomics and proteomics' - October 15-17th, 2001; Swiss Institute of Bioinformatics, Geneva, Switzerland
		Sinhaikul, S Sookkheo, B Topanuruk, S Juan, HF Phutrakul, S Chen, ST	Bioinformatics, functional genomics, and proteomics study of Bacillus sp.
		Butte, AJ	Novel bioinformatics techniques in functional genomics.
	Roy, D Forster, T McGeever, S Robertson, KN Ghazal, P	Meeting review: Bioinformatics of biochips: Accelerating discovery in functional genomics	
	Genômica Funcional (Programas de Descoberta)	Butte, AJ Lee, K Kohane, IS	Bioinformatics tools for functional genomics in endocrinology

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Bioinformática	<i>In silico biology</i> (Programas de Descoberta)	Logsdon, J Fickett, J Koonin, E Sali, A Stormo, G Borodovsky, M	The third Georgia Tech-Emory International Conference on Bioinformatics-In Silico Biology: Bioinformatics after the Human Genome (November 15-18,2001, Atlanta, Georgia, USA)
		Harrison, R	Protecting innovation in bioinformatics and in-silico biology
		Anon	The Fourth Georgia Tech - University of Georgia International Conference in Bioinformatics: in silico Biology, Biological Networks, from Genomics to Epidemiology (November 13-16, 2003, Atlanta, Georgia, USA)
Biorremediação	Meio ambiente (Biorremediação)	Al-Daher, R Al-Awadhi, N El-Nawawy, A	Bioremediation of damaged desert environment using the windrow soil pile system in Kuwait
		Tabak, HH Govind, R	Bioavailability and biodegradation kinetics protocol for organic pollutant compounds to achieve environmentally acceptable endpoints during bioremediation
		Keasling, JD Bang, SW	Recombinant DNA techniques for bioremediation and environmentally-friendly synthesis
		Di Gregorio, S Serra, R Villani, M	Applying cellular automata to complex environmental problems: The simulation of the bioremediation of contaminated soils
		Lee, K de Mora, S	In situ bioremediation strategies for oiled shoreline environments
		Lee, K Merlin, FX	Bioremediation of oil on shoreline environments: development of techniques and guidelines
		Telford, SD	A cellular automata simulation environment for modelling soil bioremediation

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biorremediação	Meio ambiente (Biorremediação)	Coates, JD Anderson, RT	Emerging techniques for anaerobic bioremediation of contaminated environments
		Margesin, R Schinner, F	Biodegradation and bioremediation of hydrocarbons in extreme environments
		Anon	Bioremediation removes environmental stigma for resort
		Samanta, SK Singh, OV Jain, RK	Polycyclic aromatic hydrocarbons: environmental pollution and bioremediation
		Brim, H Venkateswaran, A Kostandarithes, HM Fredrickson, JK Daly, MJ	Engineering Deinococcus geothermalis for bioremediation of high-temperature radioactive waste environments
		Xu, R Obbard, JP Tay, ETC	Optimization of slow-release fertilizer dosage for bioremediation of oil-contaminated beach sediment in a tropical environment
		Vidotti, EC Rollemberg, MDC	Algae: From aquatic environment economy to bioremediation and analytical chemistry
		Galperin, MY Baker, AJM	Environmental biotechnology - From biofouling to bioremediation: the good, the bad and the vague - Editorial overview
		PRINCE, RC	PETROLEUM SPILL BIOREMEDIATION IN MARINE ENVIRONMENTS
		GUTNICK, DL	SCIENTIFIC AND TECHNOLOGICAL ISSUES LEADING TO THE PRACTICAL APPLICATION OF BIOREMEDIATION AND ENVIRONMENTAL BIOTECHNOLOGY
		FRANCIS, AJ	MICROBIAL TRANSFORMATIONS OF RADIOACTIVE-WASTES AND ENVIRONMENTAL RESTORATION THROUGH BIOREMEDIATION
		ATLAS, RM CERNIGLIA, CE	BIOREMEDIATION OF PETROLEUM POLLUTANTS - DIVERSITY AND ENVIRONMENTAL ASPECTS OF HYDROCARBON BIODEGRADATION

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biorremediação	Meio ambiente (Biorremediação)	RONCHEL, MC RAMOS, C JENSEN, LB MOLIN, S RAMOS, JL	CONSTRUCTION AND BEHAVIOR OF BIOLOGICALLY CONTAINED BACTERIA FOR ENVIRONMENTAL APPLICATIONS IN BIOREMEDIATION
		Richnow, HH Seifert, R Wehrung, P Albrecht, P Michaelis, W	Formation of bound residues in bioremediation experiments of mineral oil polluted environments.
		Hooker, BS Skeen, RS	Intrinsic bioremediation: An environmental restoration technology
		Lin, GH Sauer, NE Cutright, TJ	Environmental regulations: A brief overview of their applications to bioremediation
		Chen, SL Wilson, DB	Construction and characterization of Escherichia coli genetically engineered for bioremediation of Hg ²⁺ -contaminated environments
		Holliger, C Gaspard, S Glod, G Heijman, C Schumacher, W Schwarzenbach, RP Vazquez, F	Contaminated environments in the subsurface and bioremediation: organic contaminants
	Microorganismo (Biorremediação)	Gomes, NCM Mendonca-Hagler, LCS Savvaidis, I	Metal bioremediation by microorganisms
		Riaz-ul-Haq Shakoori, AR	Microorganisms resistant to heavy metals and toxic chemicals as indicators of environmental pollution and their use in bioremediation
		BRADLEY, PM CHAPELLE, FH	RAPID TOLUENE MINERALIZATION BY AQUIFER MICROORGANISMS AT ADAK, ALASKA - IMPLICATIONS FOR INTRINSIC BIOREMEDIATION IN COLD ENVIRONMENTS
		Korda, A Santas, P Tenente, A Santas, R	Petroleum hydrocarbon bioremediation: sampling and analytical techniques, in situ treatments and commercial microorganisms currently used
		Obuekwe, CO Al-Zarban, SS	Bioremediation of crude oil pollution in the Kuwaiti desert: The role of adherent microorganisms

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biorremediação	Microorganismo (Biorremediação)	Ford, CZ Saylor, GS Burlage, RS	Containment of a genetically engineered microorganism during a field bioremediation application
		Banaszak, JE Rittmann, BE Reed, DT	Subsurface interactions of actinide species and microorganisms: Implications for the bioremediation of actinide-organic mixtures
		Mathew, M Obbard, JP Ting, YP Gin, YH Tan, HM	Bioremediation of oil contaminated beach sediments using indigenous microorganisms in Singapore
		Ripp, S Nivens, DE Ahn, Y Werner, C Jarrell, J Easter, JP Cox, CD Burlage, RS Saylor, GS	Controlled field release of a bioluminescent genetically engineered microorganism for bioremediation process monitoring and control
		Ripp, S Nivens, DE Ahn, Y Werner, C Jarrell, J Easter, JP Cox, CD Burlage, RS Saylor, GS	Controlled field release of a bioluminescent genetically engineered microorganism for bioremediation process monitoring and control (vol 34, pg 846, 2000)
		Saylor, GS Ripp, S	Field applications of genetically engineered microorganisms for bioremediation processes
		Margesin, R	Potential of cold-adapted microorganisms for bioremediation of oil-polluted Alpine soils
		Watanabe, K	Microorganisms relevant to bioremediation
		Pumpel, T Paknikar, KM	Bioremediation technologies for metal-containing wastewaters using metabolically active microorganisms
		Watanabe, K Futamata, H Harayama, S	Understanding the diversity in catabolic potential of microorganisms for the development of bioremediation strategies
		Nevin, KP Finneran, KT Lovley, DR	Microorganisms associated with uranium bioremediation in a high-salinity subsurface sediment
Cunningham, CJ Ivshina, IB Lozinsky, VI Kuyukina, MS Philp, JC	Bioremediation of diesel-contaminated soil by microorganisms immobilised in polyvinyl alcohol		

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Biorremediação	Microorganismo (Biorremediação)	JASPER, DA	BIOREMEDIATION OF AGRICULTURAL AND FORESTRY SOILS WITH SYMBIOTIC MICROORGANISMS
		NAGASE, H INTHORN, D MIYAMOTO, K	USE OF PHOTOSYNTHETIC MICROORGANISMS IN BIOREMEDIATION
		GREER, CW GODBOUT, J COMEAU, Y MASSON, L BROUSSEAU, R	MOLECULAR MONITORING OF XENOBIOTIC-DEGRADING MICROORGANISMS, AND THEIR ACTIVITY DURING BIOREMEDIATION OF CONTAMINATED SOIL
		SCHMIDT, SK COLORES, GM HESS, TF RADEHAUS, PM	A SIMPLE METHOD FOR QUANTIFYING ACTIVITY AND SURVIVAL OF MICROORGANISMS INVOLVED IN BIOREMEDIATION PROCESSES
		Hunter, B WuSingel, J	Bioremediation process "trains" natural microorganisms for clean-up duty
		Margesin, R Schinner, F	Laboratory bioremediation experiments with soil from a diesel-oil contaminated site - Significant role of cold-adapted microorganisms and fertilizers
		Cho, BH Chino, H Tsuji, H Kunito, T Makishima, H Uchida, H Matsumoto, S Oyaizu, H	Analysis of oil components and hydrocarbon-utilizing microorganisms during laboratory-scale bioremediation of oil-contaminated soil of Kuwait
	OGMs (Sustentabilidade Ambiental)	Drobnik, J	Genetically modified organisms (GMO) in bioremediation and legislation
Bioterrorismo	Legislação (Bioterrorismo)	Hendricks, JB	Managing biohazards in the research and clinical laboratory: Impact of recently enacted bioterrorism legislation [2]
	Produção de Vacinas em Plantas (Integração: Alimentação, Nutrição e Saúde)	Zoon, KC	Vaccines, pharmaceutical products, and bioterrorism: Challenges for the US Food and Drug Administration
		Wechsler, J	Vaccine shortages put spotlight on production - Bioterrorism and common infections create challenges for manufacturers

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Farmacogenética	Genômica Funcional (Programas de Descoberta)	Freimuth, RR Eckloff, B Wieben, ED Weinshilboum, RM	Human sulfotransferase SULT1C1 pharmacogenetics: gene resequencing and functional genomic studies
		Xu, Z Thomae, B Eckloff, B Wieben, E Weinshilboum, R	Human 3'-phosphoadenosine 5'-phosphosulfate synthetase 1 (PAPSS1) pharmacogenetics: Gene sequence diversity and functional genomic studies.
		Adjei, A Thomae, B Prondzinski, J Eckloff, B Wieben, E Weinshilboum, R	Human estrogen sulfotransferase (SULT1E1) pharmacogenetics: Gene resequencing and functional genomics.
		Xu, ZH Thomae, BA Eckloff, BW Wieben, ED Weinshilboum, RM	Pharmacogenetics of human 3'-phosphoadenosine 5'-phosphosulfate synthetase 1 (PAPSS1): gene resequencing, sequence variation, and functional genomics
		Salavaggione, OE Wiewert, M Weinshilboum, RM	Thiopurine S-methyltransferase (TPMT) pharmacogenetics: Variant allele functional genomics.
		Ji, Y Salavaggione, OE Adjei, AA Thomae, BA Eckloff, B Wieben, ED Weinshilboum, RM	Human phenylethanolamine N-methyltransferase (PNMT) pharmacogenetics: Gene resequencing and functional genomic studies.
Farmacogenética	Genômica Funcional (Programas de Descoberta)	Hildebrandt, HAT Salavaggione, OE Martin, YN Flynn, HC Jalal, S Wieben, ED Weinshilboum, RM	Human SULT1A3 pharmacogenetics: gene duplication and functional genomic studies
Integração: Alimentação, Nutrição e Saúde	Nutracêuticos (Integração: Alimentação, Nutrição e Saúde)	Milner, JA	Do "functional foods" offer opportunities to optimize nutrition and health?
		Karyadi, D Lukito, W	Functional food and contemporary nutrition-health paradigm: Tempeh and its potential beneficial effects in disease prevention and treatment
		Shimizu, T	A follow-up evaluation in nutrition education on the health benefits of using functional foods

TEMA	TERMO (TEMA)	Autor	Título do Artigo
Segurança Biológica	OGMs (Sustentabilidade Ambiental)	Klinger, T	Biosafety assessment of genetically engineered organisms in the environment
Segurança Biológica	OGMs (Sustentabilidade Ambiental)	Hileman, B	Biosafety negotiations - Protocol on exports of genetically engineered organisms could impede the biotechnology industry
		Gupta, A	Governing trade in genetically modified organisms - The Cartagena Protocol on Biosafety
		Phillips, PWB Kerr, WA	Alternative paradigms - The WTO versus the biosafety protocol for trade in genetically modified organisms
		Tripathi, KK	Genetically modified organisms: Concerns and biosafety issues
		Masood, E	BIOSAFETY RULES WILL REGULATE INTERNATIONAL GMO TRANSFERS

Artigos reincidentes entre temas:

TERMO (TEMA)		Autor	Título do Artigo
Clonagem (Fertilidade e Reprodução Animal)	Células Tronco (Fertilidade e Reprodução Animal)	Revel, M	Ongoing research on mammalian cloning and embryo stem cell technologies: Bioethics of their potential medical applications
Fitomedicamentos (Biodiversidade / Bioprospecção)	Genômica Funcional (Programas de Descoberta)	Lu, NM Tam, C Davis, R Tuntland, C	Differences in knowledge regarding functional foods and herbal medicines and their roles in prevention of cardiovascular disease between nutrition and non-nutrition majors
	Nutracêuticos (Integração: Alimentação, Nutrição e Saúde)	Sung, KY Tam, CF	A comparison of knowledge regarding the benefits and intake of functional foods, herbal medicine and dietary supplements in the prevention of cardiovascular disease between nutrition and non-nutrition majors
		Park, YG Kwon, E Park, MY Sung, MK Kwon, H	Survey on the marketing and consumer behavior of functional foods and folk herbal medicines in Korea
Herbário e Demais Formas de Conservação Ex Situ (Biodiversidade / Bioprospecção)	Bancos de Germoplasma (Biodiversidade / Bioprospecção)	Phartyal, SS Thapliyal, RC Koedam, N Godefroid, S	Ex situ conservation of rare and valuable forest tree species through seed-gene bank
		Storme, V Vanden Broeck, A Ivens, B Halfmaerten, D Van Slycken, J Castiglione, S Grassi, F Fossati, T Cottrell, JE Tabbener, HE Lefevre, F Saintagne, C Fluch, S Krystufek, V Burg, K Bordacs, S Borovics, A Gebhardt, K Vornam, B Pohl, A Alba, N Agundez, D Maestro, C Notivol, E Bovenschen, J van Dam, BC van der Schoot, J Vosman, B Boerjan, W Smulders, MJM	Ex-situ conservation of Black poplar in Europe: genetic diversity in nine gene bank collections and their value for nature development