Currículo Lattes

Mariangela Hungria da Cunha

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Last updated 09/12/2021

Researcher of Productivity at CNPq - Level 1A

Resumo informado pelo autor

Graduated in Agronomy, School of Agriculture Luiz de Queiroz (ESALQ-USP) (1979), M.Sc. in Soils and Plant Nutrition (ESALQ-USP) (1981), Ph.D. in Agronomy (Soil Science) Federal Rural University of Rio de Janeiro (UFRRJ) (1985), post-doc at Cornell University (1989), University of California - Davis (1991), University of Seville (1998). Researcher at Embrapa since 1982, at the National Soybean Center (Embrapa Soja) since 1991. Professor at the State University of Londrina (UEL), in the post-graduate courses in Microbiology and Biotechnology and at the Federal University of Technology (UTFPR), in Bioinformatics. Has experience in Agronomy with emphasis on Soil Biotechnology, in the themes: biological nitrogen fixation, biodiversity; taxonomy and phylogeny of prokaryotes, microbial ecology, soil microbiology, plant growth promoting bacteria; plant physiology; inoculant production; technologies of inoculation; omics sciences; microbial culture collections; bioindicators of soil quality. Has over 700 publications (papers, books, book chapters, technical reports) on these lines of research and has launched more than 20 technologies, including strains of rhizobia for the common bean crop, Azospirillum for the maize, wheat and brachiarias and for co-inoculation with rhizobia for the soybean and common bean. Works with various private partnerships in the development of new microbial inoculants, with several products already registered and commercialized. Has completed the supervision of more than 80 M.Sc. and Ph.D. students, and over 130 other types of supervision. President of the Brazilian Society of Soil Science (2001 to 2003), member of editorial boards and reviewer of national and international refereed journals. Represented the environmental area of the Brazilian Society of Microbiology for 20 years and coordinator of biofertilizers nets in Ibero-Americas. Vice-president and president of the RELARE (Laboratory Network Meeting for the Recommendation, Standardization and Technology Transfer of Microbial Inoculants of Interest for the Agriculturea) (2010-2016). Advisory committee of the Bill & Melinda Gates Foundation in projects N2Africa and Human Capacity Building, as well as of projects in Argentina, Mexico and Peru and has projects in collaboration with Spain, Australia and France. Fellow research of CNPq since 1992 at the 1A level since 1998. Member of the Brazilian Academy of Sciences (ABC) (2008), and Brazilian Academy of Agronomic Sciences (ABCA) (2021). Title of "Commander of the National Order of Scientific Merit" by the President of Brazil (2008) and Grã-Cruz Order (2018). Award Glaci Zancan "Women in Science" of Paraná State (2009) "Honorary Advisor on Agricultural Scientist & Technology Green" of the Rural Development Administration (RDA, Korea) (2009). Award "Frederico de Menezes Veiga" by Embrapa, on the theme of "Low-Carbon Agriculture " (2012). Award Claudia-Maganize Category Science (2015). Medal of Merit by the Administrative Council of Agronomists of Paraná (CREA-PR, 2018) and of the Brazilian Agronomists (CONFEA/CREA, 2018). Award Antonio Carlos Moniz of the Brazilian Society of Soil Science (2019); List of the most influential researchers in the world (2020-2021); TWAS (Third World Academy of Sciences)-Lenovo in agriculture (2020). Soybean Character of Rural TV (2021). Member of the World Academy of Sciences (2022), among others. In 12/2021: h=54 (Web of Sciences), h=83 (Google Scholar), Scopus (57), h=72 (ResearchGate).

(Text informed by the author)

Links para Outras Bases:

SciELO - Artigos em texto completo

Civil name

Full name Mariangela Hungria da Cunha

Personal Information

Parental information Milton Vieira da Cunha and Leda Hungria da Cunha

Birth information 06/02/1958 - São Paulo/SP - Brazil

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Residential Address
Rua das Açucenas no. 190
Colina Verde - Londrina
86050570, PR - Brazil
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Professional Address
Empresa Brasileira de Pesquisa Agropecuária Centro Nac Pesq Agrobiologia, Embrapa Cnpsoja, Centro Nacional de Pesquisa de Soja
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Formal Education

1982 - 1985 Doctorate in Agronomy.
Universidade Federal Rural do Rio de Janeiro, UFRRJ, Seropedica, Brazil
Title: Fisiologia da Fixação Biológica do Nitrogênio em Phaseolus vulgaris L., Year of degree: 1985
Advisor: Maria Cristina Prata Neves
Scholarship from : Empresa Brasileira de Pesquisa Agropecuária Centro Nac Pesq Agrobiologia

1980 - 1981 Master's in Solos e Nutrição de Plantas.
Usp Escola Superior de Agricultura Luiz de Queiroz, USP-ESALQ, Brazil
Title: Eficiência da Fixação Biológica do Nitrogênio x Evolução do H2 x Respiração dos Nódulos do Feijoeiro (Phaseolus vulgaris L.), Year of degree: 1981
Advisor: Alaídes Puppin Ruschel
Scholarship from : Fundação de Amparo à Pesquisa do Estado de São Paulo

Graduation in Engenharia Agronomica.

1976 - 1979 USP - Escola Superior de Agricultura Luiz de Queiroz, USP-ESALQ, Brazil

2002 - 2002 Improvement Course in Bioinformática.
Laboratório Nacional de Computação Científica, LNCC, Petropolis, Brazil
Advisor: Dra Ana Tereza Vasconcelos

2000 - 2000 Improvement Course in Balanço de Nitrogênio.
Dpto Of Agroenvironmental Sciences, DAS, Japan
Advisor: Dr Joji Arijara

1996 - 1996 Improvement Course in Bioquímica e Genética de Rhizobium/ Bradyrhizobium.
Universidad de Sevilla, UNISEV, Spain
Advisor: Dr Manuel Megías Guijo

1996 - 1996 Improvement Course in Bioquímica e Genética de Rhizobium e Bradyrhizobiu.
Embrapa Centro Nacional de Pesquisa de Soja, EMBRAPA CNPSO, Brazil
Advisor: Dr Manuel Megías Guijo

1996 - 1996 Improvement Course in Genética de Bradyrhizobium.
Knoxville, KNOXVILLE, United States
Advisor: Dr Gary Stacey

1994 - 1994 Improvement Course in Genética de Rhizobium.
Embrapa Centro Nacional de Pesquisa de Soja, EMBRAPA CNPSO, Brazil
Advisor: Dr Leif Skot

1994 - 1994 Improvement Course in Biomassa Microbiana.
Embrapa Centro Nacional de Pesquisa de Soja, EMBRAPA CNPSO, Brazil
Advisor: Dr David Wardle - AgResearch, New Zealand

1989 - 1989 Improvement Course in Genética de Rhizobium.
University of Wisconsin - Madison, WISC, Madison, United States
Advisor: Dra Jo Handelsman

1986 - 1986 Improvement Course in Enzimas de Assimilação do Nitrogênio.
Rothamsted Experimental Station, ROTHAMSTED, England
Advisor: Dr Roger Wallsgrove

1983 - 1986 Improvement Course in Fixação Biológica do N2 Com Bactérias Associativas.
Universidade Federal do Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil
Advisor: Dra Johanna Döbereiner - EMBRAPA,CNPAB

1983 - 1985 Improvement Course in Balanço de N, Mineralização e Desnitrificação.
Universidade Federal do Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil
Advisor: Dr Robert M. Boddey - EMBRAPA, CNPAB

1985 - 1985 Improvement Course in Anatomia dos Nódulos.
Universidade Federal do Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil
Advisor: Dra Joan Sutherland - The University of Dundee, UK

1982 - 1984 Improvement Course in Fisiologia da Fixação Biológica do Nitrogênio.
Universidade Federal do Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil
Advisor: Dra Janet I. Sprent - The University of Dundee, UK

1983 - 1983 Improvement Course in Genética de Azospirillum.
Universidade Federal do Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil
Advisor: Dr Fernando Bastarrachea - Inst.Investig.Biomédicas, México

1983 - 1983 Improvement Course in Fisiologia da Fixação Biológica do Nitrogênio.
Universidade Federal do Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil
Advisor: Dr Richard J. Thomas - The University of Dundee, UK

1982 - 1982 Improvement Course in Ecologia do Rhizobium.
Universidade Federal do Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil
Advisor: Dr Caio Vidor - UFRS, RS

1980 - 1980 Improvement Course in Fisiologia da Fixação Biológica do Nitrogênio.
Universidade Federal do Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil
Advisor: Dr Franklin R. Minchin - The University of Reading, UK

Postdoctorate

1997 - 1998 Postdoctorate .
Universidad de Sevilla - Facultad de Farmacia, UNIV. SEVILLA, Spain
Scholarship from : Conselho Nacional de Desenvolvimento Científico e Tecnológico

1989 - 1991 Postdoctorate .
University of California - Davis, UCDAVIS, United States
Scholarship from : Conselho Nacional de Desenvolvimento Científico e Tecnológico

1988 - 1989 Postdoctorate .
Cornell University, CORNELL, Ithaca, United States
Scholarship from : Conselho Nacional de Desenvolvimento Científico e Tecnológico

Complementary Education

2011 - 2011 Short Term Course in Interpretação da Norma ISO 17025. (Carga horária: 16h).
Embrapa - Centro Nacional de Pesquisa de Soja, CNPSOJA, Brazil

2010 - 2010 Short Term Course in I Taller Iberoamericano Para la Creación de Redes. (Carga horária: 16h).
Asociación Argentina de Microbiologia, AAM, Argentina

2010 - 2010 Short Term Course in Curso de Imersão em Inglês. (Carga horária: 45h).
College Language Center, COLLEGE, Brazil

2010 - 2010 Short Term Course in de Capacitação em Auditores Internos da Qualidade. (Carga horária: 24h).
GESTÃO Consultoria e Treinamento, GESTÃO, Brazil

2010 - 2010 Short Term Course in Curso de Interpretação das normas BPL. (Carga horária: 24h).
GESTÃO Consultoria e Treinamento, GESTÃO, Brazil

2006 - 2006 Short Term Course in Bioinformática aplicada à anotação de genomas. (Carga horária: 40h).
Embrapa - Centro Nacional de Pesquisa de Soja, CNPSOJA, Brazil

2006 - 2006 Short Term Course in Eletroforese bidimensional como ferramenta proteôm. (Carga horária: 30h).
Instituto de Desenvolvimento Rural do Paraná, IDR-Paraná, Londrina, Brazil

2006 - 2006 Short Term Course in Comparative microbial genomics and taxonomy. (Carga horária: 30h).
Laboratório Nacional de Computação Científica, LNCC, Petropolis, Brazil

2006 - 2006 Short Term Course in Formação de Auditor Interno Em BPL NBR ISO 19011. (Carga horária: 24h).
EVIDÊNCIA - Evidência Consultoria e Treinamento Ltda, EVIDÊNCIA, Brazil

2005 - 2005 Short Term Course in Implantação das Boas Práticas de Laboratório. (Carga horária: 24h).
Evidência Consultoria e Treinamento Ltda, EVIDÊNCIA, Brazil

2002 - 2002 Short Term Course in Introdução à Programação Aplicada à Bioinformática. (Carga horária: 40h).
Universidade Estadual de Londrina, UEL, Londrina, Brazil

2001 - 2001 Short Term Course in La Genética Molecular de Los Rizobios.
Embrapa Centro Nacional de Pesquisa de Soja, EMBRAPA CNPSO, Brazil

2000 - 2000 Short Term Course in Aflp Para Seqüenciador.
Embrapa Centro Nacional de Pesquisa de Soja, EMBRAPA CNPSO, Brazil

1998 - 1998 Short Term Course in Utilização de Seqüenciadores Genéticos.
Embrapa Centro Nacional de Pesquisa de Soja, EMBRAPA CNPSO, Brazil

1995 - 1995 Short Term Course in Filogenia Genética.
Embrapa Centro Nacional de Pesquisa de Soja, EMBRAPA CNPSO, Brazil

1994 - 1994 Short Term Course in Sínt.e Aplic. Oligonucl e Anál Via Rapd Em Plantas.
Centro de Energia Nuclear na Agricultura, CENA, Brazil

1993 - 1993 Short Term Course in RMN na Elucidação Estrut. de Subst. Orgân.. (Carga horária: 21h).
Universidade Estadual de Londrina, UEL, Londrina, Brazil

1992 - 1992 Short Term Course in Curso de Noções de Imunologia e Técnicas Sorológic.
Embrapa Centro Nacional de Pesquisa de Soja, EMBRAPA CNPSO, Brazil

1992 - 1992 Short Term Course in Curso de Microscopia.
Embrapa Centro Nacional de Pesquisa de Soja, EMBRAPA CNPSO, Brazil

1990 - 1990 Seminário de Radioisótopos. .
University of California - Davis, UCDAVIS, United States

1990 - 1990 Short Term Course in Manipulação de Dna.
University of California - Davis, UCDAVIS, United States

1988 - 1988 Short Term Course in Curso Básico de Radioisótopos e Material de Segura.
Cornell University, CORNELL, Ithaca, United States

Professional Experience

1. Universidade Federal do Paraná - UFPR

Contract institutional

1995 - 2008 Contract: Colaborador , Position: Colaborador, Schemes of job: Part-time
Other information:
Participação no projeto PRONEX, grupo de excelência em Fixação Biológica do Nitrogênio, com o Dr. Fábio de Oliveira Pedrosa, no Departamento de Bioquímica, participação nos projetos GENOPAR, PROTEOPAR e Instituto do Milênio

Activities

12/1996 - Current Research and Development, Setor de Ciências Biológicas, Departamento de Bioquímica

06/1996 - 05/2005 Research and Development, Setor de Ciências Biológicas, Departamento de Genética

01/1995 - 05/2005 Post-graduate degree, Genética

Disciplines Taught:
PROFESSORA CADASTRADA E ORIENTADORA

2. Sociedade Brasileira de Ciência do Solo - SBCS

Contract institutional

2001 - Current Contract: Colaborador , Position: Colaborador , Working hours (weekly): 1, Schemes of job: Part-time

Activities

12/2005 - Current Management and Admnistrative Positions

Positions:
Coordenadora da Comissão Especializada III: B

07/2003 - 07/2005 Management and Admnistrative Positions

Positions:
Membro do conselho

07/2001 - 07/2003 Management and Admnistrative Positions

Positions:
Presidente da Sociedade Brasileira de Ciência do Solo

3. Universidade Tecnológica Federal do Paraná - UTFPR

Contract institutional

2014 - Current Contract: Professor Visitante , Position: Professora Credenciada de Pós-Graduação , Working hours (weekly): 2, Schemes of job: Part-time

4. Sociedade Brasileira de Microbiologia - SBM

Contract institutional

1991 - Current Contract: Colaborador , Position: Colaborador , Working hours (weekly): 1, Schemes of job: Part-time

5. Embrapa - Centro Nacional de Pesquisa de Soja - CNPSOJA

Contract institutional

2014 - Current

6. Universidade Estadual de Londrina - UEL

Contract institutional

2005 - Current Contract: Professor , Position: Professora Credenciada de Pós-Graduação , Working hours (weekly): 5, Schemes of job: Part-time
Other information:
Professora cadastrada e orientadora do Mestrado em Biotecnologia

1995 - 1998 Contract: Colaborador , Position: Professora Credenciada de Pós-Graduação, Schemes of job: Part-time
Other information:
Professora cadastrada e orientadora do mestrado em Agronomia

1991 - Current Contract: Professor colaborador , Position: Professora Credenciada de Pós-Graduação , Working hours (weekly): 5, Schemes of job: Part-time
Other information:
Pós-graduação em Microbiologia do Solo - Mestrado e Doutorado

Activities

03/1999 - Current Post-graduate degree, Genética e Biologia Molecular

Disciplines Taught:
Orientadora cadastrada

03/1999 - Current Research and Development, Centro de Ciências Biológicas, Departamento de Genética

12/1995 - 12/1998 Research and Development, Centro de Ciências Agrárias, Departamento de Agronomia

12/1995 - 12/1998 Post-graduate degree, Agronomia

Disciplines Taught:
Orientadora cadastrada

10/1991 - Current Research and Development, Centro de Ciências Biológicas, Departamento de Microbiologia

10/1991 - Current Post-graduate degree, Microbiologia

Disciplines Taught:
Microbiologia do solo

7. Empresa Brasileira de Pesquisa Agropecuária - EMBRAPA

Contract institutional

1982 - Current Position: PESQUISADORA III , Working hours (weekly): 40, Schemes of job: Full-time
Other information:
Centro Nacional de Pesquisa em Agrobiologia até 1991 e Centro Nacional de Pesquisa de Soja de 1991 até o presente momento

Activities

07/1991 - Current Research and Development, Centro Nacional de Pesquisa de Soja

12/1982 - 07/1991 Research and Development, Centro Nacional de Pesquisa de Agrobiologia

8. Soytech Seeds Pesquisa em Soja - STS

Contract institutional

2010 - 2012

9. Universidade Paranaense - UNIPAR

Contract institutional

2005 - 2015 Contract: Professora Colaboradora , Position: Professora Colaboradora de Pós-Graduação , Working hours (weekly): 2, Schemes of job: Part-time

10. Instituto de Desenvolvimento Rural do Paraná - IDR-Paraná

Contract institutional

2004 - 2006

11. Universidade Federal Rural do Rio de Janeiro - UFRRJ

Contract institutional

1984 - 1988 Contract: Colaborador , Position: PROFESSORA CADASTRADA, Schemes of job: Part-time

Activities

06/1984 - 04/1988 Research and Development, Instituto de Agronomia, Departamento de Solos

08/1983 - 12/1987 Post-graduate degree, Agronomia (Ciências do Solo)

Disciplines Taught:
Microbiologia do Solo , Curso Intensivo de Fixação do N2

Projects

Projetos de pesquisa

2017 - Current INCT - Plant-Growth Promoting Microorganisms for Agricultural Sustainability and Environmental Responsibility

Description: There is a strong global demand for more quantitative food production and increased quality, but a new approach is necessary. As important as producing more, it is necessary to consider agricultural sustainability, to enhance the recovery of degraded areas, to lower emissions of greenhouse gases (GHGs) and avoid pollution of the soil and water by agrochemicals, thus optimizing the rational use of inputs. Although fundamental to productivity, chemical fertilizers have high cost, being imported and of low use efficiency by most crops. In this context, microorganisms which promote the growth of plants (PGPM – plant-growth promoting microorganisms) which includes any microorganism that stimulates plant growth, independent of the mechanism of action. These include nitrogen-fixing bacteria, producers of plant-growth regulators, microbes that solubilize potassic and phosphate rocks as well as facilitators of nutrient absorption, such as mycorrhizal fungi are crucial for agricultural sustainability, opening opportunities for what can be defined as a true "green microrevolution" with impact on productivity, but with environmental responsibility. This INCT was proposed with the mission to "conduct basic research and biotechnology development, to train personnel and transfer knowledge, products and technologies for public and private sectors, aiming to increase the use of PGPMs, microbial processes and biomolecules in Brazilian agriculture, maximizing plant nutrition and crop yields with lower inputs of chemical fertilizers and diminished environmental impact." For this, in this first phase of the project 27 specific objectives were outlined, related to 60 goals. The activities included in the basic science component will generate new knowledge on taxonomy, phylogeny, physiology, ecology, structural genomics, proteomics, transcriptomics and metabolomics with PGPM and in-plant associations with PGPM. A second strand is the development of biotechnological products, and molecules related to PGPM technologies with various biotechnological innovations as well as in crop improvement with PGPM-plant associations. New technologies, such as the application of microorganisms, ideal agronomic practices for each crop and the recovery of degraded pastures will be studied and validated. Another strong aspect of this INCT comprises activities related to the environment, with research lines on the quantification of the contribution of biological nitrogen fixation and GHG emissions in comparison to the use of chemical fertilizers, generating information to support the ABC (Low Carbon Agriculture) Plan of the Brazilian government. In addition, this information will allow the use of PGPMs for Clean Development Mechanisms (CDM) and ecosystem services. On the environmental side the use of microbial biomarkers for monitoring soil quality is proposed, with scientific, social and public policy implications.
Status: In progress Category: Projetos de pesquisa
Members: Mariangela Hungria da Cunha (Responsable); ; Funding Institution: Conselho Nacional de Desenvolvimento Científico e Tecnológico-CNPq, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior-CAPES, Fundação Araucária-FUNDAÇÃO ARAUCÁR

Areas of Expertise

1. Biotecnologia do Solo
2. Microbiology and Biochemist of the Soil
3. Molecular Genetics and of Microorganisms
4. Biology and Fisiology of the Microorganisms
5. Applied Microbiology
6. Vegetal Genetics

Languages

English Understanding Fluent , Speaking Fluent , Writing Fluent , Reading Fluent

Español Understanding Fluent , Speaking Fluent , Writing Fluent , Reading Fluent

Français Understanding Functional , Speaking Basic , Writing Basic , Reading Functional

Awards

2021 Lista dos Cientistas mais Influentes do Mundo, Stanford University

2021 Lista Forbes de mulheres mais poderosas do Agro, Forbes

2021 Membro da Academia Mundial de Ciências, Third World Academy of Sciences (TWAS)

2021 Personagem Soja Brasil, Canal Rural

2020 Lista dos Cientistas mais Influentes do Mundo, Stanford Univesrity

2020 Prêmio TWAS (Third World Academy of Sciences)-Lenovo Award in Agriculture, TWAS-Lenovo

2019 Prêmio Antonio Carlos Moniz de Ciência do Solo, Sociedade Brasileira de Ciência do Solo

2018 Medalha da Ordem Nacional do Mérito Científico (ONMC), Classe Grã-Cruz, Área Ciências Agrárias, Presidência da República

2018 Medalha de Mérito da Menção Honrosa e a inscrição no Livro do Mérito do Sistema CONFEA/CREA, Conselho Federal de Engenharia e Agronomia CONFEA

2018 Medalha de Mérito do Conselho Regional de Engenharia e Agronomia do Paraná, Conselho Regional de Engenharia e Agronomia do Paraná (CREA-PR)

2017 Embaixador de Turismo de Londrina pela realização da XXVII Reunião Latino-americana de Rizobiologia, Convention Bureau - LCB e SEBRAE

2017 Profissionais do Ano 2016, Londrina

2015 Prêmio Revista Claudia, Categoria Ciências, Editora Abril e Natura

2014 Menção honrosa no XIV Encontro Nacional de Microbiologia Ambiental, pelo trabalho de Fukami et al. Parâmetros agronômicos da cultura do trigo em função de diferentes concentrações de Azospirillum, Sociedade Brasileira de Microbiologia

2014 Segundo lugar no XIV Encontro Nacional de Microbiologia Ambiental, trabalho de Delamuta et al. Análise filogenética do gene nodY/K revela coevolução e transferência horizontal entre Bradyrhizobium, Sociedade Brasileira de Microbiologia

2012 Prêmio Frederico de Menezes Veiga - Tema 2012 "A agricultura na economia de baixa emissão de carbono"., Embrapa

2011 Prêmio BIAGRO de Trabalho em Pesquisa Básica, XXV Reunión Latinoamericana de Rhizobiologia/BIAGRO

2011 Prêmio de Melhor Trabalho na Área de Solos do Congresso Brasileiro de Microbiologia, 26 Congresso Brasileiro de Microbiologia

2011 Prêmio “Johanna Dobereiner” de Curadoria em Coleções de Culturas, Embrapa

2010 Trofeu Glaci Zancan “Mulheres de Ciência”, SETI, Governo do Paraná

2009 Premiação Nacional de Equipes - Categoria Criatividade, Empresa Brasileira de Pesquisa Agropecuária

2009 Premiação Nacional de Equipes - Categoria Parceria, Empresa Brasileira de Pesquisa Agropecuária

2009 RDA Overseas Honorable Researcher, Rural Development Administration (RDA)

2008 Membro Titular da Área de Ciências Agrárias, Academia Brasileira de Ciências

2008 Ordem Nacional do Mérito Científico, Classe de Comendador, Ciências Agrárias, Presidência da República

2003 Premiação Nacional de Equipes, Embrapa

2002 Prêmio BIAGRO de Melhor Trabalho Apresentado, XXI Reunión Latinoamericana de Rhizobiologia/BIAGRO

2001 Prêmio Embrapa de Parceria, Empresa Brasileira de Pesquisa Agropecuária

1992 Prêmio Ciba-Geigy, II Simpósio Brasileiro sobre Microbiologia do Solo

1988 Prêmio Valée do Nordeste, I Congresso Nacional de Biotecnologia

S, T & A Production

Bibliographic Production

Articles Published in Scientific Journals

1. doi BARBOSA, JULIERME ZIMMER; ROBERTO, LUDMILA DE ALMEIDA; **Hungria, Mariangela**; CORRÊA, RODRIGO STUDART; MAGRI, EDERLAN; CORREIA, TERESA DRUMMOND. 2022.
Meta-analysis of maize responses to Azospirillum brasilense inoculation in Brazil: Benefits and lessons to improve inoculation efficiency In APPLIED SOIL ECOLOGY. , v.170, 104276

2. doi MORETTI, LUIZ GUSTAVO; CRUSCIOL, CARLOS ALEXANDRE COSTA; BOSSOLANI, JOÃO WILLIAM; CALONEGO, JULIANO CARLOS; MOREIRA, ADÔNIS; GARCIA, ARIANI; MOMESSO, LETUSA; KURAMAE, EIKO EURYA; **Hungria, Mariangela**. 2021.
Beneficial microbial species and metabolites alleviate soybean oxidative damage and increase grain yield during short dry spells In EUROPEAN JOURNAL OF AGRONOMY. , v.127, 126293

3. doi Zilli, Jerri Édson; PACHECO, RAFAEL SANCHES; GIANLUPPI, VICENTE; SMIDERLE, OSCAR JOSÉ; URQUIAGA, SEGUNDO; **Hungria, Mariangela**. 2021.
Biological N2 fixation and yield performance of soybean inoculated with Bradyrhizobium In NUTRIENT CYCLING IN AGROECOSYSTEMS. , v.1, 1-1

4. doi KLEPA, MILENA SERENATO; FERRAZ HELENE, LUISA CAROLINE; O'HARA, GRAHAM; **Hungria, Mariangela**. 2021.
Bradyrhizobium agreste sp. nov., Bradyrhizobium glycinis sp. nov. and Bradyrhizobium diversitatis sp. nov., isolated from a biodiversity hotspot of the genus Glycine in Western Australia In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. , v.1, 1-1

5. doi GARCIA, MARCOS VINICIOS CONCEIÇÃO; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2021.
Combining microorganisms in inoculants is agronomically important but industrially challenging: case study of a composite inoculant containing Bradyrhizobium and Azospirillum for the soybean crop In AMB Express. , v.11, 71

6. doi ERCOLE, TAIRINE G.; SAVI, DAIANI C.; ADAMOSKI, DOUGLAS; KAVA, VANESSA M.; **Hungria, Mariangela**; GALLI-TERASAWA, LYGIA V.. 2021.
Diversity of maize (Zea mays L.) rhizobacteria with potential to promote plant growth In BRAZILIAN JOURNAL OF MICROBIOLOGY. , v.52, 1807-1823

7. doi ANDRADE, F. C.; FERNANDES, F.; OLIVEIRA JUNIOR, A.; RONDINA, ARTUR B. L.; **HUNGRIA, M.**; NOGUEIRA, MARCO ANTÔNIO. 2021.
Enrichment of organic compost with beneficial microorganisms and yield performance of corn and wheat In Revista Brasileira de Engenharia Agricola e Ambiental. , v.25, 332-339

8. doi TEIXEIRA, GUSTAVO MANOEL; MOSELA, MIRELA; NICOLETTO, MARIA LUIZA ABREU; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**; YOUSSEF, KHAMIS; HIGASHI, ALLAN YUKIO; MIAN, SILAS; FERREIRA, ANDRÉ SAMPAIO; GONÇALVES, LEANDRO SIMÕES AZEREDO; PEREIRA, ULISSES DE PADUA; DE OLIVEIRA, ADMILTON GONÇALVES. 2021.
Genomic Insights Into the Antifungal Activity and Plant Growth-Promoting Ability in Bacillus velezensis CMRP 4490 In Frontiers in Microbiology. , v.11, 618415

9. doi MEIRELES DUARTE, AMÁRIO NUNO; VIEGA SOARES FILHO, CECÍLIO; CARVALHO MINHOTO TEIXEIRA FILHO, MARCELO; LOPES MONTEIRO DE CARVALHO, CAROLINE; **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO; MANDOLESI VALVANO, ISADORA; GONÇALVES ISHIY, AMANDA. 2021.
Inoculation with plant growth-promoting bacteria and reduction of nitrogen fertilizer in herbage accumulation and nutritional value of Mavuno grass In INTERNATIONAL JOURNAL FOR INNOVATION EDUCATION AND RESEARCH. , v.9, 16-34

10. doi BARBOSA, JULIERME ZIMMER; **Hungria, Mariangela**; SENA, JOÃO VICTOR DA SILVA; POGGERE, GIOVANA; DOS REIS, ANDRÉ RODRIGUES; CORRÊA, RODRIGO STUDART. 2021.
Meta-analysis reveals benefits of co-inoculation of soybean with Azospirillum brasilense and Bradyrhizobium spp. in Brazil In APPLIED SOIL ECOLOGY. , v.163, 103913

11. doi KLEPA, MILENA SERENATO; JANONI, VANESSA; PAULITSCH, FABIANE; DA SILVA, ADRIANE RIBEIRO; DO CARMO, MARTA REGINA BARROTTO; DELAMUTA, JAKELINE RENATA MARÇON; **Hungria, Mariangela**; DA SILVA BATISTA, JESIANE STEFANIA. 2021.
Molecular diversity of rhizobia-nodulating native Mimosa of Brazilian protected areas In ARCHIVES OF MICROBIOLOGY. , v.203, 5533-5545

12. doi SANTOS, MARIANA SANCHES; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2021.
Outstanding impact of Azospirillum brasilense strains Ab-V5 and Ab-V6 on the Brazilian agriculture: Lessons that farmers are receptive to adopt new microbial inoculants In REVISTA BRASILEIRA DE CIÊNCIA DO SOLO (ONLINE). , v.45, e0200128

13. doi **Hungria, Mariangela**; RONDINA, ARTUR BERBEL LIRIO; NUNES, AMANDA LETÍCIA PIT; ARAUJO, RICARDO SILVA; NOGUEIRA, MARCO ANTONIO. 2021.
Seed and leaf-spray inoculation of PGPR in brachiarias (Urochloa spp.) as an economic and environmental opportunity to improve plant growth, forage yield and nutrient status In PLANT AND SOIL. , v.1, 1-1

14. doi SANTOS, MARIANA SANCHES; RODRIGUES, THIAGO FERNANDES; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2021.
The Challenge of Combining High Yields with Environmentally Friendly Bioproducts: A Review on the Compatibility of Pesticides with Microbial Inoculants In Agronomy-Basel. , v.11, 870

15. doi SCUDELETTI, DANIELE; CRUSCIOL, CARLOS ALEXANDRE COSTA; BOSSOLANI, JOÃO WILLIAM; MORETTI, LUIZ GUSTAVO; MOMESSO, LETUSA; SERVAZ TUBAÑA, BRENDA; DE CASTRO, SÉRGIO GUSTAVO QUASSI; DE OLIVEIRA, ELISA FIDÊNCIO; **Hungria, Mariangela**. 2021.
Trichoderma asperellum Inoculation as a Tool for Attenuating Drought Stress in Sugarcane In Frontiers in Plant Science. , v.12, 645542

16. doi PAULITSCH, FABIANE; DOS REIS, FABIO BUENO; **Hungria, Mariangela**. 2021.
Twenty years of paradigm-breaking studies of taxonomy and symbiotic nitrogen fixation by beta-rhizobia, and indication of Brazil as a hotspot of Paraburkholderia diversity In ARCHIVES OF MICROBIOLOGY. , v.203, 4785-4803

17. doi SIMIONATO, ANE STÉFANO; CANO, BÁRBARA GIONCO; NAVARRO, MIGUEL OCTAVIO PÉREZ; TAVARES, ELIANDRO REIS; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**; YAMAUCHI, LUCY MEGUMI; YAMADA-OGATTA, SUELI FUMIE; ANDRADE, GALDINO. 2021.
Whole-Genome Sequence of Bioactive Compound-Producing *Pseudomonas aeruginosa* Strain LV In Microbiology Resource Announcements. , v.10, e01120-20

18. doi MORETTI, LUIZ GUSTAVO; CRUSCIOL, CARLOS ALEXANDRE COSTA; BOSSOLANI, JOÃO WILLIAM; MOMESSO, LETUSA; GARCIA, ARIANI; KURAMAE, EIKO EURYA; **Hungria, Mariangela**. 2020.
Bacterial Consortium and Microbial Metabolites Increase Grain Quality and Soybean Yield In JOURNAL OF SOIL SCIENCE AND PLANT NUTRITION. , v.20, 1923-1934

19. doi GETAHUN, ALEMAYEHU; MULETA, DIRIBA; ASSEFA, FASSIL; KIROS, SOLOMON; **Hungria, Mariangela**. 2020.
Biochar and Other Organic Amendments Improve the Physicochemical Properties of Soil in Highly Degraded Habitat In European Journal of Engineering Research and Science. , v.5, 331-338

20. doi SILVA, L. A.; BOREGIO, J. S.; **HUNGRÍA, MARIANGELA**; MOREIRA, ADÔNIS; NOGUEIRA, MARCO ANTONIO; SOARES FILHO, CECÍLIO VIEGA. 2020.
Biomass yield, nitrogen content and uptake, and nutritive value of alfalfa co-inoculated with plant growth promoting bacteria In INTERNATIONAL JOURNAL FOR INNOVATION EDUCATION AND RESEARCH. , v.8, 400-420

21. doi IKEDA, ANGELA C.; **HUNGRÍA, MARIANGELA**; SAVI, D.C.; KAVA, VANESSA; Glienke, Chirlei; GALLI-TERASAWA, LYGIA. 2020.
Bioprospecting of elite plant-growth promoting bacteria for the maize (Zea mays L.) crop In Acta Scientiarum (UEM). , v.42, e44364

22. doi HELENE, LUISA CAROLINE FERRAZ; KLEPA, MILENA SERENATO; O'HARA, GRAHAM; **Hungria, Mariangela**. 2020.
Bradyrhizobium archetypum sp. nov., Bradyrhizobium australiense sp. nov. and Bradyrhizobium murdochi sp. nov., isolated from nodules of legumes indigenous to Western Australia In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. , v.70, 4623-4636

23. doi RONDINA, ARTUR BERBEL LIRIO; DOS SANTOS SANZOVO, ALISSON WILSON; GUIMARÃES, GABRIEL SILVA; WENDLING, JHONATAN RAFAEL; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2020.
Changes in root morphological traits in soybean co-inoculated with Bradyrhizobium spp. and Azospirillum brasilense or treated with A. brasilense exudates In BIOLOGY AND FERTILITY OF SOILS. , v.56, 537-549

24. doi FERRAZ HELENE, LUISA CAROLINE; O'HARA, GRAHAM; **Hungria, Mariangela**. 2020.
Characterization of Bradyrhizobium strains indigenous to Western Australia and South Africa indicates remarkable genetic diversity and reveals putative new species In SYSTEMATIC AND APPLIED MICROBIOLOGY. , v.43, 126053

25. doi SANTOS, MARIANA S.; RONDINA, ARTUR B. L.; NOGUEIRA, MARCO A.; **Hungria, Mariangela**. 2020.
Compatibility of *Azospirillum brasilense* with Pesticides Used for Treatment of Maize Seeds In INTERNATIONAL JOURNAL OF MICROBIOLOGY (PRINT). , v.2020, 1-8

26. doi MORETTI, LUIZ GUSTAVO; CRUSCIOL, CARLOS A. C.; KURAMAE, EIKO E.; BOSSOLANI, JOÃO W.; MOREIRA, ADÔNIS; COSTA, NÍDIA R.; ALVES, CLEITON J.; PASCOALOTO, ISABÔ M.; RONDINA, ARTUR B. L.; **Hungria, Mariangela**. 2020.
Effects of growth-promoting bacteria on soybean root activity, plant development, and yield In AGRONOMY JOURNAL. , v.112, 418-428

27. doi ANZALONE, RAPHAEL ANTOINE; MACHADO VEZZANI, FABIANE; Kaschuk, Glaciela; **Hungria, Mariangela**; KAYSER VARGAS, LUCIANO; NOGUEIRA, MARCO ANTONIO. 2020.
Establishing reference values for soil microbial biomass-C in agroecosystems in the Atlantic Forest Biome in Southern Brazil In ECOLOGICAL INDICATORS. , v.117, 106586

28. doi BARREIROS, ARTUR ROQUE DOMINGUES; CECATO, ULYSSES; DUARTE, CAMILA FERNANDES DOMINGUES; **Hungria, Mariangela**; BISERRA, THIAGO TRENTO; SILVA, DIOGO RODRIGUES DA; MAMÉDIO, DIVANEY; SANCHES, RENAN; FERNANDES, HENRIQUE JORGE. 2020.
Forage Mass, Tillering, Nutritive Value and Root System of Ruzigrass Inoculated with Plant Growth Promoting Bacteria Associated with Doses of N-Fertilizer In INTERNATIONAL JOURNAL FOR INNOVATION EDUCATION AND RESEARCH. , v.8, 41-55

29. doi DELAMUTA, JAKELINE RENATA MARÇON; SCHERER, ANDERSON JOSÉ; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**. 2020.
Genetic diversity of Agrobacterium species isolated from nodules of common bean and soybean in Brazil, Mexico, Ecuador and Mozambique, and description of the new species Agrobacterium fabacearum sp. nov. In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. , v.70, 4233-4244

30. doi Torres, Adalgisa Ribeiro; BRITO, BELÉN; IMPERIAL, JUAN; PALACIOS, JOSE MANUEL; CIAMPITTI, IGNACIO ANTONIO; RUIZ-ARGÜESO, TOMÁS; **Hungria, Mariangela**. 2020.
Hydrogen-uptake genes improve symbiotic efficiency in common beans (Phaseolus vulgaris L.) In ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY. , v.113, 687-696

31. doi RODRIGUES, THIAGO FERNANDES; BENDER, FLAVIA RAQUEL; SANZOVO, ALISSON WILSON SANTOS; FERREIRA, EDUARA; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2020.
Impact of pesticides in properties of Bradyrhizobium spp. and in the symbiotic performance with soybean In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. , v.36, 172

32. doi DUARTE, CAMILA FERNANDES DOMINGUES; CECATO, ULYSSES; **Hungria, Mariangela**; FERNANDES, HENRIQUE JORGE; BISERRA, THIAGO TRENTO; MAMÉDIO, DIVANEY; GALBEIRO, SANDRA; NOGUEIRA, MARCO ANTÔNIO. 2020.
Inoculação de bactérias promotoras do crescimento vegetal em Urochloa Ruziziensis In RESEARCH, SOCIETY AND DEVELOPMENT. , v.9, e630985978

33. doi SANTOS, MARIANA SANCHES; RODRIGUES, THIAGO FERNANDES; FERREIRA, EDUARA; MEGIAS, MANUEL; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2020.
Method for Recovering and Counting Viable Cells from Maize Seeds Inoculated with Azospirillum brasilense In JOURNAL OF PURE AND APPLIED MICROBIOLOGY. , v.14, 195-204

34. doi DUARTE, CAMILA FERNANDES DOMINGUES; CECATO, ULYSSES; **Hungria, Mariangela**; FERNANDES, HENRIQUE JORGE; BISERRA, THIAGO TRENTO; GALBEIRO, SANDRA; TONIATO, ANNY KARULINNY BARROSO; DA SILVA, DIOGO RODRIGUES. 2020.
Morphogenetic and structural characteristics of Urochloa species under inoculation with plant-growth-promoting bacteria and nitrogen fertilisation In Crop & Pasture Science. , v.71, 82-89

35. doi CARVALHO, C. L. M.; DUARTE, A. N. M.; **HUNGRÍA, MARIANGELA**; NOGUEIRA, MARCO ANTONIO; MOREIRA, ADÔNIS; SOARES FILHO, CECÍLIO VIEGA. 2020.
Nitrogen in shoots, number of tillers, biomass yield and nutritive value of Zuri Guinea Grass inoculated with plant-growth promoting bacteria In INTERNATIONAL JOURNAL FOR INNOVATION EDUCATION AND RESEARCH. , v.8, 437-463

36. doi ROCHA, SANDRA MARA BARBOSA; MENDES, LUCAS WILLIAM; OLIVEIRA, LOUISE MELO DE SOUZA; MELO, VANIA MARIA MACIEL; ANTUNES, JADSON EMANUEL LOPES; ARAUJO, FÁBIO FERNANDO; **Hungria, Mariangela**; ARAUJO, ADEMIR SERGIO FERREIRA. 2020.
Nodule microbiome from cowpea and lima bean grown in composted tannery sludge-treated soil In APPLIED SOIL ECOLOGY. , v.151, 103542

37. doi PAULITSCH, FABIANE; DALL'AGNOL, REBECA FUZINATTO; DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; DA SILVA BATISTA, JESIANE STEFANIA; **Hungria, Mariangela**. 2020.
Paraburkholderia atlantica sp. nov. and Paraburkholderia franconis sp. nov., two new nitrogen-fixing nodulating species isolated from Atlantic forest soils in Brazil In ARCHIVES OF MICROBIOLOGY. , v.202, 1369-1380

38. doi PAULITSCH, FABIANE; DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; BATISTA, JESIANE STEFANIA DA SILVA; **Hungria, Mariangela**. 2020.
Phylogeny of symbiotic genes reveals symbiovars within legume-nodulating Paraburkholderia species In SYSTEMATIC AND APPLIED MICROBIOLOGY. , v.43, 126151

39. doi CHIBEBA, AMARAL MACHACULEHA; PEREIRA, CLAUDIANA SILVA; ANTUNES, JADSON EMANUEL LOPES; RIBEIRO, RENAN AUGUSTO; DE ALMEIDA LOPES, ANGELA CELIS; GOMES, REGINA LUCIA FERREIRA; **Hungria, Mariangela**; ARAUJO, ADEMIR SERGIO FERREIRA. 2020.
Polyphasic characterization of nitrogen-fixing and co-resident bacteria in nodules of Phaseolus lunatus inoculated with soils from Piauí State, Northeast Brazil In SYMBIOSIS. , v.80, 279-292

40. doi **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO; CAMPOS, LEONARDO JOSE MOTTA;

MENNA, PAMELA; BRANDI, FABIO; RAMOS, YURI GUERREIRO. 2020.
Seed pre-inoculation with *Bradyrhizobium* as time-optimizing option for large-scale soybean cropping systems In AGRONOMY JOURNAL. , v.112, 5222-5236

41. doi CEREZINI, PAULA; KUWANO, BIANA HARUMI; GRUNVALD, ANNA KAROLINA; **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO. 2020.
Soybean tolerance to drought depends on the associated Bradyrhizobium strain In BRAZILIAN JOURNAL OF MICROBIOLOGY. , v.51, 1977-1986

42. doi CHIBEBA, AMARAL MACHACULEHA; KYEI-BOAHEN, STEPHEN; DE FÁTIMA GUIMARÃES, MARIA; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2020.
Towards sustainable yield improvement: field inoculation of soybean with Bradyrhizobium and co-inoculation with Azospirillum in Mozambique In ARCHIVES OF MICROBIOLOGY. , v.202, 2579-2590

43. doi LIMA, GILMAR COTRIN DE; **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO; TEIXEIRA FILHO, MARCELO CARVALHO MINHOTO; MOREIRA, ADÔNIS; HEINRICHS, REGES; SOARES FILHO, CECILIO VIEGA. 2020.
Yield, yield components and nutrients uptake in Zuri Guinea grass inoculated with plant growth-promoting bacteria In INTERNATIONAL JOURNAL FOR INNOVATION EDUCATION AND RESEARCH. , v.8, 103-124

44. doi SÁ, G. C. R.; CARVALHO, C. L. M.; MOREIRA, A.; **HUNGRIA, M.**; NOGUEIRA, M.A.; HEINRICHS, R.; SOARES FILHO, C. V.. 2019.
Biomass Yield, Nitrogen Accumulation and Nutritive Value of Mavuno Grass Inoculated with Plant Growth-promoting Bacteria In COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS. , v.50, 1931-1942

45. doi URQUIAGA, MARIA CLARA DE OLIVEIRA; KLEPA, MILENA SERENATO; SOMASEGARAN, PADMA; RIBEIRO, RENAN AUGUSTO; DELAMUTA, JAKELINE RENATA MARCON; **Hungria, Mariangela**. 2019.
Bradyrhizobium frederickii sp. nov., a nitrogen-fixing lineage isolated from nodules of the caesalpinioid species Chamaecrista fasciculata and characterized by tolerance to high temperature in vitro In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. , v.69, 3863-3877

46. doi KLEPA, MILENA SERENATO; URQUIAGA, MARIA CLARA DE OLIVEIRA; SOMASEGARAN, PADMA; DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**. 2019.
Bradyrhizobium niftali sp. nov., an effective nitrogen-fixing symbiont of partridge pea [Chamaecrista fasciculata (Michx.) Greene], a native caesalpinioid legume broadly distributed in the USA In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. , v.69, 3448-3459

47. doi BARROS-CARVALHO, GESIELE ALMEIDA; **Hungria, Mariangela**; LOPES, FABRÍCIO MARTINS; VAN SLUYS, MARIE-ANNE. 2019.
Brazilian-adapted soybean Bradyrhizobium strains uncover IS elements with potential impact on biological nitrogen fixation In FEMS Microbiology Letters. , v.366, fnz046

48. doi KOGA, VANESSA L.; MALUTA, RENATO P.; DA SILVEIRA, WANDERLEY D.; RIBEIRO, RENAN A.; **Hungria, Mariangela**; VESPERO, ELIANA C.; NAKAZATO, GERSON; KOBAYASHI, RENATA K. T.. 2019.
Characterization of CMY-2-type beta-lactamase-producing Escherichia coli isolated from chicken carcasses and human infection in a city of South Brazil In BMC MICROBIOLOGY. , v.19, 174

49. doi ROLIM, LUCAS; SANTIAGO, THAÍS RIBEIRO; DOS REIS JUNIOR, FÁBIO BUENO; DE CARVALHO MENDES, IEDA; DO VALE, HELSON MARIO MARTINS; **Hungria, Mariangela**; SILVA, LUCIANO PAULINO. 2019.
Correction to: Identification of soybean Bradyrhizobium strains used in commercial inoculants in Brazil by MALDI-TOF mass spectrometry In BRAZILIAN JOURNAL OF MICROBIOLOGY. , v.50, 905-914

50. doi FÁVARO, LARISSA DOS SANTOS; DE PAULA-PETROLI, SUELEN BALERO; ROMANIN, PRISCILA; TAVARES, ELIANDRO DOS REIS; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**; DE OLIVEIRA, ADMILTON GONÇALVES; YAMAUCHI, LUCY MEGUMI; YAMADA-OGATTA, SUELI FUMIE; CARRARA-MARRONI, FLORISTHER ELAINE. 2019.
Detection of OXA-58-producing Acinetobacter bereziniae in Brazil In Journal of Global Antimicrobial Resistance. , v.S2213, 30209

51. doi SCHERER, ANDERSON JOSÉ; DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; CHIBEBA, AMARAL MACHACULEHA; KYEI-BOAHEN, STEPHEN; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2019.
Draft Genome Sequence of *Agrobacterium deltaense* Strain CNPSo 3391, Isolated from a Soybean Nodule in Mozambique In Microbiology Resource Announcements. , v.8, e01675-18

52. doi **Hungria, Mariangela**; DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; NOGUEIRA, MARCO ANTONIO. 2019.
Draft Genome Sequence of *Bradyrhizobium elkanii* Strain SEMIA 938, Used in Commercial Inoculants for *Lupinus* spp. in Brazil In Microbiology Resource Announcements. , v.8, e00546-19

53. doi TAVARES, ELIANDRO REIS; DA SILVA, LUCAS FERNANDO; MOREY, ALEXANDRE TADACHI; DE OLIVEIRA, ADMILTON GONÇALVES; DA ROCHA, SERGIO PAULO DEJATO; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**; THIHARA, ISABELLA RAMOS TREVIZANI; PERUGINI, MARCIA REGINA ECHES; YAMAUCHI, LUCY MEGUMI; YAMADA-OGATTA, SUELI FUMIE. 2019.
Draft Genome Sequence of Vancomycin-Resistant *Enterococcus faecium* UEL170 (Sequence Type 412), Isolated from a Patient with Urinary Tract Infection in a Tertiary Hospital in Southern Brazil In Microbiology Resource Announcements. , v.8, 1-2

54. doi VENANCIO, W. S.; GOMES, J. M.; NAKATANI, ANDRE SHIGUEYOSHI; **MARIANGELA, HUNGRIA**; ARAUJO, R. S.. 2019.
Lettuce production under reduced levels of N-fertilizer in the presence of plant growth-promoting Bacillus spp. bacteria In Journal of Pure and Applied Microbiology. , v.13, 1941-1952

55. doi FERRAZ HELENE, LUISA CAROLINE; DALL'AGNOL, REBECA FUZINATTO; DELAMUTA, JAKELINE RENATA MARÇON; **Hungria, Mariangela**. 2019.
Mesorhizobium atlanticum sp. nov., a new nitrogen-fixing species from soils of the Brazilian Atlantic Forest biome In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. , v.69, 1800-1806

56. doi SANTOS, MARIANA SANCHES; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2019.
Microbial inoculants: reviewing the past, discussing the present and previewing an outstanding future for the use of beneficial bacteria in agriculture In AMB Express. , v.9, 205

57. doi LEITE, RUBSON DA COSTA; SANTOS, ANTONIO CLEMENTINO DOS; SANTOS, JOSÉ GERALDO DONIZETTI DOS; LEITE, ROBSON DA COSTA; OLIVEIRA, LEONARDO BERNARDES TAVERNY DE; **Hungria, Mariangela**. 2019.
Mitigation of Mombasa Grass (Megathyrsus maximus) Dependence on Nitrogen Fertilization as a Function of Inoculation with Azospirillum brasilense In REVISTA BRASILEIRA DE CIÊNCIA DO SOLO (ONLINE). , v.43, e0180234

58. doi CARVALHO, L.R.; PEREIRA, L.E.T.; **HUNGRIA, M.**; CAMARGO, P.B.; DA SILVA, S.C.. 2019.
Nodulation and biological nitrogen fixation (BNF) in forage peanut (Arachis pintoi) cv. Belmonte subjected to grazing regimes In AGRICULTURE ECOSYSTEMS & ENVIRONMENT. , v.278, 96-106

59. doi C. R. SÁ, GEOVANA; **Hungria, Mariangela**; CARVALHO, CAROLINE LOPES MONTEIRO; MOREIRA, ADÔNIS; NOGUEIRA, MARCO; HEINRICHS, REGES; SOARES FILHO, CECÍLIO VIEGA. 2019.
Nutrients Uptake in Shoots and Biomass Yields and Roots and Nutritive Value of Zuri Guinea Grass Inoculated with Plant Growth-promoting Bacteria In COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS. , v.50, 2927-2940

60. doi PAULITSCH, FABIANE; DALL'AGNOL, REBECA FUZINATTO; DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; DA SILVA BATISTA, JESIANE STEFANIA; **Hungria, Mariangela**. 2019.
Paraburkholderia guartelaensis sp. nov., a nitrogen-fixing species isolated from nodules of Mimosa gymnas in an ecotone considered as a hotspot of biodiversity in Brazil In ARCHIVES OF MICROBIOLOGY. , v.201, 1435-1446

61. doi PAULITSCH, FABIANE; KLEPA, MILENA SERENATO; DA SILVA, ADRIANE RIBEIRO; DO CARMO, MARTA REGINA BARROTTO; DALL'AGNOL, REBECA FUZINATTO; DELAMUTA, JAKELINE RENATA MARÇON; **Hungria, Mariangela**; DA SILVA BATISTA, JESIANE STEFANIA. 2019.

Phylogenetic diversity of rhizobia nodulating native Mimosa gymnas grown in a South Brazilian ecotone In MOLECULAR BIOLOGY REPORTS. , v.46, 529-540

62. doi BOUZNIF, BESMA; GUEFRACHI, IBTISSEM; RODRÍGUEZ DE LA VEGA, RICARDO C.; **Hungria, Mariangela**; MARS, MOHAMED; ALUNNI, BENOIT; SHYKOFF, JACQUI ANNE. 2019.
Phylogeography of the Bradyrhizobium spp. Associated With Peanut, Arachis hypogaea: Fellow Travelers or New Associations? In Frontiers in Microbiology. , v.10, 2041

63. doi CEREZINI, PAULA; KUWANO, BIANA HARUMI; NEIVERTH, WALKYRIA; GRUNVALD, ANNA KAROLINA; PÍPOLO, ANTONIO EDUARDO; **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO. 2019.
Physiological and N2-fixation-related traits for tolerance to drought in soybean progenies In PESQUISA AGROPECUÁRIA BRASILEIRA (ONLINE). , v.54, e00839

64. doi RONDINA, ARTUR BERBEL LIRIO; TONON, BRENDA CRISTYE; LESCANO, LUIS EDUARDO AZEVEDO MARQUES; **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO; ZANGARO, WALDEMAR. 2019.
Plants of Distinct Successional Stages Have Different Strategies for Nutrient Acquisition in an Atlantic Rain Forest Ecosystem In INTERNATIONAL JOURNAL OF PLANT SCIENCES. , v.180, 000-000

65. doi TULLIO, LEANDRO DATOLA; GOMES, DOUGLAS FABIANO; SILVA, LUCIANO PAULINO; **Hungria, Mariangela**; BATISTA, JESIANE STEFANIA DA SILVA. 2019.
Proteomic analysis of Rhizobium freirei PRF 81T reveals the key role of central metabolic pathways in acid tolerance In APPLIED SOIL ECOLOGY. , v.135, 98-103

66. doi DOS SANTOS LIMA FAGOTTI, DÁFILA; ABRANTES, JULIA LAURA FERNANDES; CEREZINI, PAULA; FUKAMI, JOSIANE; NOGUEIRA, MARCO A.; DEL CERRO, PABLO; VALDERRAMA-FERNÁNDEZ, ROCIO; OLLERO, FRANCISCO J.; MEGÍAS, MANUEL; **Hungria, Mariangela**. 2019.
Quorum sensing communication: *Bradyrhizobium-Azospirillum* interaction via N-acyl-homoserine lactones in the promotion of soybean symbiosis In JOURNAL OF BASIC MICROBIOLOGY. , v.59, 38-53

67. doi GOMES, DOUGLAS FABIANO; TULLIO, LEANDRO DATOLA; DEL CERRO, PABLO; NAKATANI, ANDRE SHIGUEYOSHI; ROLLA-SANTOS, AMANDA ALVES PAIVA; GIL-SERRANO, ANTONIO; MEGÍAS, MANUEL; OLLERO, FRANCISCO JAVIER; **Hungria, Mariangela**. 2019.
Regulation of hsnT, nodF and nodE genes in Rhizobium tropici CIAT 899 and their roles in the synthesis of Nod factors and in the symbiosis In MICROBIOLOGY-SGM. , v.165, 990-1000

68. doi TULLIO, LEANDRO DATOLA; NAKATANI, ANDRÉ SHIGUEYOSHI; GOMES, DOUGLAS FABIANO; OLLERO, FRANCISCO JAVIER; MEGÍAS, MANUEL; **Hungria, Mariangela**. 2019.
Revealing the roles of y4wF and tidC genes in Rhizobium tropici CIAT 899: biosynthesis of indolic compounds and impact on symbiotic properties In ARCHIVES OF MICROBIOLOGY. , v.201, 171-183

69. doi SANDINI, I. E.; PACENTCHUK, F.; **Hungria, Mariangela**; NOGUEIRA, M.A.; CRUZ, SONIA PURIN DA; NAKATANI, ANDRE SHIGUEYOSHI; ARAUJO, RICARDO SILVA. 2019.
Seed inoculation with Pseudomonas fluorescens promotes growth, yield and reduces nitrogen application in maize. In International Journal of Agriculture & Biology (Online). , v.22, 1369-1375

70. doi BELLINI, REINALDO G.; CORONADO, MÔNIKA APARECIDA; PASCHOAL, ALEXANDRE ROSSI; GAUDENCIO DO RÊGO, THAÍS; **Hungria, Mariangela**; RIBEIRO DE VASCONCELOS, ANA TEREZA; NICOLÁS, MARISA FABIANA. 2019.
Structural analysis of a novel N-carbamoyl-d-amino acid amidohydrolase from a Brazilian Bradyrhizobium japonicum strain: In silico insights by molecular modelling, docking and molecular dynamics In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. , v.86, 35-42

71. doi DEL CERRO, PABLO; AYALA-GARCÍA, PAULA; JIMÉNEZ-GUERRERO, IRENE; LÓPEZ-BAENA, FRANCISCO JAVIER; VINARDELL, JOSÉ MARÍA; MEGÍAS, MANUEL; **Hungria, Mariangela**; GIL-SERRANO, ANTONIO M.; PÉREZ-MONTAÑO, FRANCISCO; OLLERO, FRANCISCO JAVIER. 2019.
The non-flavonoid inducible nodA3 and the flavonoid regulated nodA1 genes of Rhizobium tropici CIAT 899 guarantee nod factor production and nodulation of different host legumes In PLANT AND SOIL. , v.440, 185-200

72. doi VANLAUWE, B.; **HUNGRIA, M.**; KANAMPIU, F.; GILLER, K.E.. 2019.
The role of legumes in the sustainable intensification of African smallholder agriculture: Lessons learnt and challenges for the future In AGRICULTURE ECOSYSTEMS & ENVIRONMENT. , v.284, 106583

73. doi Giller, Ken E.; KANAMPIU, FRED; **Hungria, Mariangela**; VANLAUWE, BERNARD. 2019.
The role of nitrogen fixation in African smallholder agriculture In AGRICULTURE ECOSYSTEMS & ENVIRONMENT. , v.285, 106601

74. doi SOUZA, THIAGO LÍVIO P. O.; FARIA, JOSIAS C.; ARAGÃO, FRANCISCO J. L.; DEL PELOSO, MARIA J.; FARIA, LUIS C.; WENDLAND, ADRIANE; AGUIAR, MARCELO S.; QUINTELA, ELIANE DIAS; MELO, CARLOS LÁSARO P.; **Hungria, Mariangela**; VIANELLO, ROSANA P.; PEREIRA, HELTON S.; MELO, LEONARDO C.. 2018.
Agronomic Performance and Yield Stability of the RNA Interference-Based -Resistant Common Bean In CROP SCIENCE. , v.58, 579-591

75. doi FUKAMI, JOSIANE; OLLERO, FRANCISCO JAVIER; DE LA OSA, CLARA; VALDERRAMA-FERNÁNDEZ, ROCIO; NOGUEIRA, MARCO ANTONIO; MEGÍAS, MANUEL; **Hungria, Mariangela**. 2018.
Antioxidant activity and induction of mechanisms of resistance to stresses related to the inoculation with Azospirillum brasilense In ARCHIVES OF MICROBIOLOGY. , v.200, 1191-1203

76. doi FUKAMI, JOSIANE; CEREZINI, PAULA; **Hungria, Mariangela**. 2018.
Azospirillum: benefits that go far beyond biological nitrogen fixation In AMB Express. , v.8, 73

77. doi MORETTI, LUIZ GUSTAVO; LAZARINI, EDSON; BOSSOLANI, JOÃO WILLIAM; PARENTE, TIAGO LISBOA; CAIONI, SHEILA; ARAUJO, RICARDO SILVA; **Hungria, Mariangela**. 2018.
Can Additional Inoculations Increase Soybean Nodulation and Grain Yield? In AGRONOMY JOURNAL. , v.110, 715-721

78. doi FUKAMI, JOSIANE; DE LA OSA, CLARA; OLLERO, FRANCISCO JAVIER; MEGÍAS, MANUEL; **Hungria, Mariangela**. 2018.
Co-inoculation of maize with Azospirillum brasilense and Rhizobium tropici as a strategy to mitigate salinity stress In FUNCTIONAL PLANT BIOLOGY. , v.45, 328-339

79. doi BAPTISTA, JULIA PEZARINI; SANCHES, PAULA PINHEIRO; TEIXEIRA, GUSTAVO MANOEL; MOREY, ALEXANDRE TADACHI; TAVARES, ELIANDRO REIS; YAMADA-OGATTA, SUELI FUMIE; DA ROCHA, SÉRGIO PAULO DEJATO; **Hungria, Mariangela**; RIBEIRO, RENAN AUGUSTO; BALBI-PEÑA, MARIA ISABEL; CHIDEROLI, ROBERTA TORRES; PEREIRA, ULISSES DE PADUA; DE OLIVEIRA, ADMILTON GONÇALVES. 2018.
Complete Genome Sequence of *Bacillus velezensis* LABIM40, an Effective Antagonist of Fungal Plant Pathogens In GENOME ANNOUNCEMENTS. , v.6, e00595-18

80. doi JACKSON, SEITI GUNDI; MARIANA, SANCHES SANTOS; ANDRÉ, LUIZ MARTINEZ OLIVEIRA; MARCO, ANTONIO NOGUEIRA; **MARIANGELA, HUNGRIA**. 2018.
Development of liquid inoculants for strains of Rhizobium tropici group using response surface methodology In AFRICAN JOURNAL OF BIOTECHNOLOGY. , v.17, 411-421

81. doi MEGÍAS, ESAÚ; DOS REIS JUNIOR, FÁBIO BUENO; RIBEIRO, RENAN AUGUSTO; OLLERO, FRANCISCO JAVIER; MEGÍAS, MANUEL; **Hungria, Mariangela**. 2018.
Draft Genome Sequence of *Pantoea ananatis* Strain 1.38, a Bacterium Isolated from the Rhizosphere of *Oryza sativa* var. Puntal That Shows Biotechnological Potential as an Inoculant In GENOME ANNOUNCEMENTS. , v.6, e01547-17

82. doi **Hungria, Mariangela**; RIBEIRO, RENAN AUGUSTO; NOGUEIRA, MARCO ANTONIO. 2018.
Draft Genome Sequences of *Azospirillum brasilense* Strains Ab-V5 and Ab-V6, Commercially Used in Inoculants for Grasses and Legumes in Brazil In GENOME ANNOUNCEMENTS. , v.6, e00393-18

83. doi CHIBEBA, AMARAL MACHACULEHA; KYEI-BOAHEN, STEPHEN; GUIMARÃES, MARIA DE FÁTIMA; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2018.
Feasibility of transference of inoculation-related technologies: A case study of evaluation of soybean rhizobial strains under the agro-climatic conditions of Brazil and Mozambique In AGRICULTURE ECOSYSTEMS & ENVIRONMENT. , v.261, 230-240

84. doi GRUNVALD, ANNA KAROLINA; Torres, Adalgisa Ribeiro; PASSIANOTTO, ANDRÉ LUIZ DE LIMA; SANTOS, MARIA APARECIDA; JEAN, MARTINE; BELZILE, FRANÇOIS; **Hungria, Mariangela**. 2018.
Identification of QTLs Associated with Biological Nitrogen Fixation Traits in Soybean Using a Genotyping-by-Sequencing Approach In CROP SCIENCE. , v.58, 2523-2532

85. doi SOUZA, RENATA CAROLINI; CANTÃO, MAURÍCIO EGÍDIO; NOGUEIRA, MARCO ANTONIO; VASCONCELOS, ANA TEREZA RIBEIRO; **Hungria, Mariangela**. 2018.
Outstanding impact of soil tillage on the abundance of soil hydrolases revealed by a metagenomic approach In BRAZILIAN JOURNAL OF MICROBIOLOGY. , v.49, 723-730

86. doi COSTA, MAIRA REJANE; CHIBEBA, AMARAL MACHACULEHA; MERCANTE, FÁBIO MARTINS; **Hungria, Mariangela**. 2018.
Polyphasic characterization of rhizobia microsymbionts of common bean [Phaseolus vulgaris (L.)] isolated in Mato Grosso do Sul, a hotspot of Brazilian biodiversity In SYMBIOSIS. , v.76, 163-176

87. doi LEITE, RUBSON DA C.; DOS SANTOS, JOSÉ G. D.; SILVA, EDUARDO L.; ALVES, CÁSSIO R. C. R.; **Hungria, Mariangela**; LEITE, ROBSON DA C.; DOS SANTOS, ANTONIO C.. 2018.
Productivity increase, reduction of nitrogen fertiliser use and drought-stress mitigation by inoculation of Marandu grass (Urochloa brizantha) with Azospirillum brasilense In Crop & Pasture Science. , v.1, 1-10

88. doi HELENE, LUISA CAROLINE FERRAZ; DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**. 2017.
Bradyrhizobium mercantei sp. nov., a nitrogen-fixing symbiont isolated from nodules of Deguelia costata (syn. Lonchocarpus costatus) In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. , v.67, 1827-1834

89. doi DE OLIVEIRA-FRANCESQUINI, JOSIELE POLZIN; **Hungria, Mariangela**; SAVI, DAIANI CRISTINA; Glienke, Chirlei; ALUIZIO, RODRIGO; KAVA, VANESSA; GALLI-TERASAWA, LYGIA VITORIA. 2017.
Differential colonization by bioprospected rhizobial bacteria associated with common bean in different cropping systems In CANADIAN JOURNAL OF MICROBIOLOGY. , v.63, 682-689

90. doi DALL´AGNOL, REBECA FUZINATTO; BOURNAUD, CAROLINE; DE FARIA, SÉRGIO MIANA; BÉNA, GILLES; MOULIN, LIONEL; **Hungria, Mariangela**. 2017.
Genetic diversity of symbiotic Paraburkholderia species isolated from nodules of Mimosa pudica (L.) and Phaseolus vulgaris (L.) grown in soils of the Brazilian Atlantic Forest (Mata Atlântica) In FEMS Microbiology Ecology. , v.93, fix027

91. doi DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; GOMES, DOUGLAS FABIANO; SOUZA, RENATA CAROLINI; CHUEIRE, LIGIA MARIA OLIVEIRA; **Hungria, Mariangela**. 2017.
Genome sequence of Bradyrhizobium embrapense strain CNPSo 2833T, isolated from a root nodule of Desmodium heterocarpon In Brazilian Journal of Microbiology (Impresso). , v.48, 9-10

92. doi RIBEIRO, RENAN AUGUSTO; HELENE, LUISA CAROLINE FERRAZ; DELAMUTA, JAKELINE RENATA MARÇON; **Hungria, Mariangela**. 2017.
Genome Sequence of *Bradyrhizobium mercantei* Strain SEMIA 6399 ^{T} , Isolated from Nodules of *Deguelia costata* in Brazil In GENOME ANNOUNCEMENTS. , v.5, e00943-17

93. doi MEGÍAS, ESAÚ; REIS JUNIOR, FÁBIO BUENO; RIBEIRO, RENAN AUGUSTO; MEGÍAS, MANUEL; OLLERO, FRANCISCO JAVIER; **Hungria, Mariangela**. 2017.
Genome Sequence of *Pantoea* sp. Strain 1.19, Isolated from Rice Rhizosphere, with the Capacity To Promote Growth of Legumes and Nonlegumes In GENOME ANNOUNCEMENTS. , v.5, e00707-17

94. doi MEGÍAS, ESAÚ; REIS JUNIOR, FÁBIO BUENO; RIBEIRO, RENAN AUGUSTO; OLLERO, FRANCISCO JAVIER; MEGÍAS, MANUEL; **Hungria, Mariangela**. 2017.
Genome Sequence of Strain AMG 501, a Plant Growth-Promoting Bacterium Isolated from Rice Leaves Grown in Paddies of Southern Spain In GENOME ANNOUNCEMENTS. , v.5, e00848-17

95. doi HELENE, LUISA CAROLINE FERRAZ; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**. 2017.
Genome Sequence of Type Strain CNPSo 668, Isolated from Nodules in Mexico In GENOME ANNOUNCEMENTS. , v.5, e00935-17

96. doi **Hungria, Mariangela**; ARAUJO, RICARDO SILVA; SILVA JÚNIOR, ELSON BARBOSA; Zilli, Jerri Édson. 2017.
Inoculum Rate Effects on the Soybean Symbiosis in New or Old Fields under Tropical Conditions In AGRONOMY JOURNAL. , v.109, 1-7

97. doi CHIBEBA, AMARAL MACHACULEHA; KYEI-BOAHEN, STEPHEN; GUIMARÃES, MARIA DE FÁTIMA; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2017.
Isolation, characterization and selection of indigenous Bradyrhizobium strains with outstanding symbiotic performance to increase soybean yields in Mozambique In AGRICULTURE ECOSYSTEMS & ENVIRONMENT. , v.246, 291-305

98. doi SÁ, JOÃO CARLOS DE MORAES; LAL, RATTAN; CERRI, CARLOS CLEMENTE; LORENZ, KLAUS; **Hungria, Mariangela**; DE FACCIO CARVALHO, PAULO CESAR. 2017.
Low-carbon agriculture in South America to mitigate global climate change and advance food security In ENVIRONMENT INTERNATIONAL. , v.98, 102-112

99. doi SATURNO, DIOGO FERNANDO; CEREZINI, PAULA; MOREIRA DA SILVA, PEDRO; OLIVEIRA, ARNOLD BARBOSA DE; OLIVEIRA, MARIA CRISTINA NEVES DE; **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO. 2017.
Mineral nitrogen impairs the biological nitrogen fixation in soybean of determinate and indeterminate growth types In JOURNAL OF PLANT NUTRITION. , v.40, 1690-1701

100. doi VIVAN, ANA CAROLINA POLANO; ROSA, JULIANA FERRAZ; RIZEK, CAMILA FONSECA; PELISSON, MARSILENI; COSTA, SILVIA FIGUEIREDO; **Hungria, Mariangela**; KOBAYASHI, RENATA; VESPERO, ELIANA CAROLINA. 2017.
Molecular characterization of carbapenem-resistant Klebsiella pneumoniae isolates from a university hospital in Brazil In Journal of Infection in Developing Countries. , v.11, 379-386

101. doi DELAMUTA, JAKELINE RENATA MARÇON; MENNA, PÂMELA; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**. 2017.
Phylogenies of symbiotic genes of Bradyrhizobium symbionts of legumes of economic and environmental importance in Brazil support the definition of the new symbiovars pachyrhizi and sojae In SYSTEMATIC AND APPLIED MICROBIOLOGY. , v.40, 254-265

102. doi FUKAMI, JOSIANE; OLLERO, FRANCISCO JAVIER; MEGÍAS, MANUEL; **Hungria, Mariangela**. 2017.
Phytohormones and induction of plant-stress tolerance and defense genes by seed and foliar inoculation with Azospirillum brasilense cells and metabolites promote maize growth In AMB Express. , v.7, 153

103. doi ARAUJO, RICARDO SILVA; CRUZ, SONIA PURIN DA; SOUCHIE, EDSON LUIZ; MARTIN, THOMAS NEWTON; NAKATANI, ANDRÉ SHIGUEYOSHI; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2017.
Preinoculation of Soybean Seeds Treated with Agrichemicals up to 30 Days before Sowing: Technological Innovation for Large-Scale Agriculture In INTERNATIONAL JOURNAL OF MICROBIOLOGY (PRINT). , v.2017, 1-11

104. doi MARIANA, SANCHES SANTOS; **MARIANGELA, HUNGRIA**; MARCO, ANTONIO NOGUEIRA. 2017.
Production of polyhydroxybutyrate (PHB) and biofilm by Azospirillum brasilense aiming at the development of liquid inoculants with high performance In AFRICAN JOURNAL OF BIOTECHNOLOGY. , v.16, 1855-1862

105. doi FUKAMI, JOSIANE; ABRANTES, JULIA LAURA FERNANDES; DEL CERRO, PABLO; NOGUEIRA, MARCO ANTONIO; OLLERO, FRANCISCO JAVIER; MEGÍAS, MANUEL; **Hungria, Mariangela**. 2017.
Revealing strategies of quorum sensing in Azospirillum brasilense strains Ab-V5 and Ab-V6 In ARCHIVES OF MICROBIOLOGY. , v.200, 47-56

106. doi CORDEIRO, ANDREY BARBOSA; RIBEIRO, RENAN AUGUSTO; HELENE, LUISA CAROLINE FERRAZ; **Hungria, Mariangela**. 2017.
Rhizobium esperanzae sp. nov., a N 2 -fixing root symbiont of Phaseolus vulgaris from Mexican soils In INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY. , v.67, 3937-3945

107. doi DEL CERRO, PABLO; PÉREZ-MONTAÑO, FRANCISCO; GIL-SERRANO, ANTONIO; LÓPEZ-BAENA, FRANCISCO JAVIER; MEGÍAS, MANUEL; **Hungria, Mariangela**; OLLERO, FRANCISCO JAVIER. 2017.
The Rhizobium tropici CIAT 899 NodD2 protein regulates the production of Nod factors under salt stress in a flavonoid-independent manner In Scientific Reports. , v.7, 46712

108. doi CEREZINI, PAULA; FAGOTTI, DÁFILA DOS SANTOS LIMA; PÍPOLO, ANTONIO EDUARDO; **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO. 2017.
Water restriction and physiological traits in soybean genotypes contrasting for nitrogen fixation drought tolerance In SCIENTIA AGRICOLA. , v.74, 110-117

109. doi FUKAMI, JOSIANE; NOGUEIRA, MARCO ANTONIO; ARAUJO, RICARDO SILVA; **Hungria, Mariangela**. 2016.
Accessing inoculation methods of maize and wheat with Azospirillum brasilense In AMB Express. , v.6, 1-13

110. doi DELAMUTA, JAKELINE RENATA MARÇON; MELO, ITAMAR SOARES; PARMA, MARCIA MARIA; ARAÚJO, JEAN LUIZ SIMÕES; **Hungria, Mariangela**; RIBEIRO, RENAN AUGUSTO; Zilli, Jerri Édson; ROUWS, LUC FELICIANUS MARIE. 2016.
Bradyrhizobium stylosanthis sp. nov., comprising nitrogen-fixing symbionts isolated from nodules of the tropical forage legume Stylosanthes spp. In International Journal of Systematic and Evolutionary Microbiology (Print). , v.x, 1-15

111. doi SZILAGYI-ZECCHIN, VIVIAN J.; ADAMOSKI, DOUGLAS; GOMES, RENATA RODRIGUES; **Hungria, Mariangela**; IKEDA, ANGELA C.; Kava-Cordeiro, Vanessa; Glienke, Chirlei; GALLI-TERASAWA, LYGIA V.. 2016.
Composition of endophytic fungal community associated with leaves of maize cultivated in south Brazilian field In ACTA MICROBIOLOGICA ET IMMUNOLOGICA HUNGARICA. , v.63, 1-18

112. doi MEGÍAS, ESAÚ; MEGÍAS, MANUEL; OLLERO, FRANCISCO JAVIER; **Hungria, Mariangela**. 2016.
Draft Genome Sequence of Strain AMG521, a Rice Plant Growth-Promoting Bacterial Endophyte Isolated from the Guadalquivir Marshes in Southern Spain In Genome Announcements. , v.4, e01681-15

113. doi AARAB, SAIDA; ARAKRAK, ABDELHAY; OLLERO, FRANCISCO JAVIER; MEGÍAS, MANUEL; GOMES, DOUGLAS FABIANO; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**. 2016.
Draft Genome Sequence of Strain ET76, Isolated from Rice Rhizosphere in Northwestern Morocco In Genome Announcements. , v.4, e00356-16

114. doi ORMEÑO-ORRILLO, ERNESTO; GOMES, DOUGLAS FABIANO; DEL CERRO, PABLO; VASCONCELOS, ANA TEREZA RIBEIRO; CANCHAYA, CARLOS; ALMEIDA, LUIZ GONZAGA PAULA; MERCANTE, FABIO MARTINS; OLLERO, FRANCISCO JAVIER; MEGÍAS, MANUEL; **Hungria, Mariangela**. 2016.
Genome of Rhizobium leucaenae strains CFN 299T and CPAO 29.8: searching for genes related to a successful symbiotic performance under stressful conditions In BMC Genomics. , v.17, 534

115. doi DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; GOMES, DOUGLAS FABIANO; SOUZA, RENATA CAROLINI; CHUEIRE, LIGIA MARIA OLIVEIRA; **Hungria, Mariangela**. 2016.
Genome Sequence of Strain BR 446 , a Nitrogen-Fixing Symbiont of the Legume Pasture In Genome Announcements. , v.4, e00631-16

116. doi DALL'AGNOL, REBECA FUZINATTO; COSTA, MAIRA REJANE; RIBEIRO, RENAN AUGUSTO; DELAMUTA, JAKELINE RENATA MARÇON; CHUEIRE, LIGIA MARIA OLIVEIRA; **Hungria, Mariangela**. 2016.
Genome Sequence of Strain CNPSo 1341, a N -Fixing Symbiont of the Promiscuous Legume In Genome Announcements. , v.4, e01073-16

117. doi BABUJIA, LETÍCIA CARLOS; SILVA, ADRIANA PEREIRA; NAKATANI, ANDRÉ SHIGUEYOSHI; CANTÃO, MAURICIO EGIDIO; VASCONCELOS, ANA TEREZA RIBEIRO; VISENTAINER, JESUÍ VERGILIO; **Hungria, Mariangela**. 2016.
Impact of long-term cropping of glyphosate-resistant transgenic soybean [Glycine max (L.) Merr.] on soil microbiome In Transgenic Research. , v.25, 425-440

118. doi IMADA, EDDIE LUIDY; PAIVA DOS SANTOS, AMANDA; DE OLIVEIRA, ANDRÉ LUIZ MARTINEZ; **Hungria, Mariangela**; RODRIGUES, ELISETE PAINS. 2016.
Indole-3-acetic acid production via the indole-3-pyruvate pathway by plant growth promoter Rhizobium tropici CIAT 899 is strongly inhibited by ammonium In RESEARCH IN MICROBIOLOGY. , v.168, 283-292

119. doi **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO; ARAUJO, RICARDO SILVA. 2016.
Inoculation of Brachiaria spp. with the plant growth-promoting bacterium Azospirillum brasilense: An environment-friendly component in the reclamation of degraded pastures in the tropics In Agriculture, Ecosystems & Environment (Print). , v.221, 125-131

120. doi DALL'AGNOL, REBECA FUZINATTO; PLOTEGHER, FÁBIO; SOUZA, RENATA CAROLINI; MENDES, IÊDA CARVALHO; BUENO DOS REIS JUNIOR, FÁBIO; BÉNA, GILLES; MOULIN, LIONEL; **Hungria, Mariangela**. 2016.
Paraburkholderia nodosa is the main N_2 -fixing species trapped by promiscuous common bean (*Phaseolus vulgaris* L.) in the Brazilian -Cerradão- In FEMS Microbiology Ecology. , v.92, fiw108

121. doi DEL CERRO, PABLO; ROLLA-SANTOS, AMANDA A. P.; VALDERRAMA-FERNÁNDEZ, ROCÍO; GIL-SERRANO, ANTONIO; BELLOGÍN, RAMÓN A.; GOMES, DOUGLAS FABIANO; PÉREZ-MONTAÑO, FRANCISCO; MEGÍAS, MANUEL; **HUNGRÍA, MARIANGELA**; OLLERO, FRANCISCO JAVIER. 2016.
NrcR, a New Transcriptional Regulator of Rhizobium tropici CIAT 899 Involved in the Legume Root-Nodule Symbiosis In Plos One. , v.11, e0154029

122. doi Kaschuk, Glaciela; NOGUEIRA, MARCO ANTONIO; DE LUCA, MARCOS JAVIER; **Hungria, Mariangela**. 2016.
Response of determinate and indeterminate soybean cultivars to basal and topdressing N fertilization compared to sole inoculation with Bradyrhizobium In Field Crops Research. , v.195, 21-27

123. doi PÉREZ-MONTAÑO, FRANCISCO; DEL CERRO, PABLO; JIMÉNEZ-GUERRERO, IRENE; LÓPEZ-BAENA, FRANCISCO JAVIER; CUBO, MARIA TERESA; **Hungria, Mariangela**; MEGÍAS, MANUEL; OLLERO, FRANCISCO JAVIER. 2016.
RNA-seq analysis of the Rhizobium tropici CIAT 899 transcriptome shows similarities in the activation patterns of symbiotic genes in the presence of apigenin and salt In BMC Genomics. , v.17, 198

124. doi SOUZA, RENATA CAROLINI; MENDES, IÊDA CARVALHO; REIS-JUNIOR, FÁBIO BUENO; CARVALHO, FABÍOLA MARQUES; NOGUEIRA, MARCO ANTONIO; VASCONCELOS, ANA TEREZA RIBEIRO; VICENTE, VÂNIA APARECIDA; **Hungria, Mariangela**. 2016.
Shifts in taxonomic and functional microbial diversity with agriculture: How fragile is the Brazilian Cerrado? In BMC Microbiology (Online). , v.16, 42-57

125. doi CEREZINI, PAULA; KUWANO, BIANA HARUMI; DOS SANTOS, MICHELE BARBOSA; TERASSI, FERNANDA; **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO. 2016.
Strategies to promote early nodulation in soybean under drought In Field Crops Research. , v.196, 160-167

126. doi AZEVEDO, HELTON; LOPES, FABRICIO; SILLA, PAULO; **Hungria, Mariangela**. 2015.
A database for the taxonomic and phylogenetic identification of the genus Bradyrhizobium using multilocus sequence analysis In BMC Genomics. , v.16, S10

127. doi **MARIANGELA, HUNGRIA**; MARCO, ANTONIO NOGUEIRA; RICARDO, SILVA ARAUJO. 2015.
Alternative methods of soybean inoculation to overcome adverse conditions at sowing In African Journal of Agricultural Research. , v.10, 2329-2338

128. doi DELAMUTA, JAKELINE RENATA MARÇON; PARMA, MARCIA MARIA; RIBEIRO, RENAN AUGUSTO; MELO, ITAMAR SOARES; ORMEÑO-ORRILLO, ERNESTO; MARTÍNEZ-ROMERO, ESPERANZA; **Hungria, Mariangela**. 2015.
Bradyrhizobium tropiciagri sp. nov. and Bradyrhizobium embrapense sp. nov., nitrogen-fixing symbionts of tropical forage legumes In International Journal of Systematic and Evolutionary Microbiology (Print). , v.X, XX-XX

129. doi HELENE, LUISA CAROLINE FERRAZ; ORMEÑO-ORRILLO, ERNESTO; RIBEIRO, RENAN AUGUSTO; **Hungria, Mariangela**; DELAMUTA, JAKELINE RENATA MARÇON; MARTÍNEZ-ROMERO, ESPERANZA; ROGEL, MARCO ANTONIO. 2015.
Bradyrhizobium viridifuturi sp. nov., encompassing nitrogen-fixing symbionts of legumes used for green manure and environmental services In International Journal of Systematic and Evolutionary Microbiology (Print). , v.X, X-XX

130. doi MACHACULEHA CHIBEBA, AMARAL; FÁTIMA GUIMARÃES, MARIA DE; RODRIGUES BRITO, OSMAR; NOGUEIRA, MARCO ANTONIO; SILVA ARAUJO, RICARDO; **Hungria, Mariangela**. 2015.

Co-Inoculation of Soybean with *Bradyrhizobium* and *Azospirillum* Promotes Early Nodulation In American Journal of Plant Sciences. , v.06, 1641-1649

131. doi MATSUMURA, EMILYN EMY; SECCO, VINÍCIUS ANDRADE; MOREIRA, RENATA STOLF; DOS SANTOS, ODAIR JOSÉ ANDRADE PAIS; **Hungria, Mariangela**; DE OLIVEIRA, ANDRÉ LUIZ MARTINEZ. 2015.
Composition and activity of endophytic bacterial communities in field-grown maize plants inoculated with Azospirillum brasilense In Annals of Microbiology. , v.65, 2187-2200

132. doi Torres, Adalgisa Ribeiro; GRUNVALD, ANNA KAROLINA; MARTINS, TALITA BUSULINI; SANTOS, MARIA APARECIDA DOS; LEMOS, NOÉLLE GIACOMINI; SILVA, LUIS ANTÔNIO STABILE; **Hungria, Mariangela**. 2015.
Genetic structure and diversity of a soybean germplasm considering biological nitrogen fixation and protein content In Scientia Agricola (USP. Impresso). , v.72, 47-52

133. doi DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; GOMES, DOUGLAS FABIANO; SOUZA, RENATA CAROLINA; CHUEIRE, LIGIA MARIA OLIVEIRA; **Hungria, Mariangela**. 2015.
Genome Sequence of *Bradyrhizobium pachyrhizi* Strain PAC48 ^{T} , a Nitrogen-Fixing Symbiont of *Pachyrhizus erosus* (L.) Urb. In Genome Announcements. , v.3, e01074-15

134. doi DELAMUTA, JAKELINE RENATA MARÇON; GOMES, DOUGLAS FABIANO; RIBEIRO, RENAN AUGUSTO; CHUEIRE, LIGIA MARIA OLIVEIRA; SOUZA, RENATA CAROLINI; ALMEIDA, LUIZ GONZAGA PAULA; VASCONCELOS, ANA TEREZA RIBEIRO; **Hungria, Mariangela**. 2015.
Genome Sequence of *Bradyrhizobium tropiciagri* Strain CNPSo 1112 ^{T} , Isolated from a Root Nodule of *Neonotonia wightii* In Genome Announcements. , v.3, e01482-15

135. doi HELENE, LUISA CAROLINE FERRAZ; GOMES, DOUGLAS FABIANO; DELAMUTA, JAKELINE RENATA MARÇON; RIBEIRO, RENAN AUGUSTO; SOUZA, RENATA CAROLINI; ALMEIDA, LUIZ GONZAGA PAULA; VASCONCELOS, ANA TEREZA RIBEIRO; **Hungria, Mariangela**. 2015.
Genome Sequence of *Bradyrhizobium viridifuturi* Strain SEMIA 690 ^{T} , a Nitrogen-Fixing Symbiont of *Centrosema pubescens* In Genome Announcements. , v.3, e01481-15

136. doi RIBEIRO, RENAN AUGUSTO; DELAMUTA, JAKELINE RENATA MARÇON; GOMES, DOUGLAS FABIANO; SOUZA, RENATA CAROLINA; CHUEIRE, LIGIA MARIA OLIVEIRA; **Hungria, Mariangela**. 2015.
Genome Sequence of *Rhizobium ecuadorense* Strain CNPSo 671 ^{T} , an Indigenous N $_{2}$ -Fixing Symbiont of the Ecuadorian Common Bean (*Phaseolus vulgaris* L.) Genetic Pool In Genome Announcements. , v.3, e01058-15

137. doi **Hungria, Mariangela**; NAKATANI, ANDRÉ SHIGUEYOSHI; SOUZA, ROSINEI APARECIDA; SEI, FERNANDO BONAFÉ; DE OLIVEIRA CHUEIRE, LIGIA MARIA; ARIAS, CARLOS ARRABAL. 2015.
Impact of the ahas transgene for herbicides resistance on biological nitrogen fixation and yield of soybean In Transgenic Research. , v.24, 155-165

138. doi MARKS, BETTINA BERQUÓ; MEGÍAS, MANUEL; OLLERO, FRANCISCO JAVIER; NOGUEIRA, MARCO ANTONIO; ARAUJO, RICARDO SILVA; **Hungria, Mariangela**. 2015.
Maize growth promotion by inoculation with Azospirillum brasilense and metabolites of Rhizobium tropici enriched on lipo-chitooligosaccharides (LCOs) In AMB Express. , v.5, 71

139. doi SOUZA, RENATA CAROLINI; **HUNGRIA, M.**; CANTÃO, MAURICIO EGÍDIO; VASCONCELOS, A. T. R.; NOGUEIRA, M. A.; VICENTE, V. A.. 2015.
Metagenomic analysis reveals microbial functional redundancies and specificities in a soil under different tillage and crop-management regimes In Applied Soil Ecology (Print). , v.86, 106-112

140. doi DEL CERRO, PABLO; ROLLA-SANTOS, AMANDA ALVES PAIVA; GOMES, DOUGLAS FABIANO; MARKS, BETTINA BERQUÓ; ESPUNY, MARÍA DEL ROSARIO; RODRÍGUEZ-CARVAJAL, MIGUEL ÁNGEL; SORIA-DÍAZ, MARÍA EUGENIA; NAKATANI, ANDRÉ SHIGUEYOSHI; **Hungria, Mariangela**; OLLERO, FRANCISCO JAVIER; MEGÍAS, MANUEL. 2015.
Opening the -black box- of nodD3, nodD4 and nodD5 genes of Rhizobium tropici strain CIAT 899 In BMC Genomics. , v.16, 864

141. SZILAGYI-ZECCHIN, VIVIAN; KLOSOWSKI, A.; IKEDA, ANGELA CRISTINA; **Mariangela Hungria**; GALLI-TERASAWA, LYGIA VITORIA; CORDEIRO, VANESSA KAVA; GLIENKE, C.; MOGOR, A. F.. 2015.
Potential inoculant strains of Brazilian endophytic bacteria for maize (Zea mays L.) growth promotion In International Journal of Agronomy and Agricultural Research. , v.7, 128-134

142. doi DEL CERRO, PABLO; ROLLA-SANTOS, AMANDA ALVES PAIVA; GOMES, DOUGLAS FABIANO; MARKS, BETTINA BERQUÓ; PÉREZ-MONTAÑO, FRANCISCO; RODRÍGUEZ-CARVAJAL, MIGUEL ÁNGEL; NAKATANI, ANDRÉ SHIGUEYOSHI; GIL-SERRANO, ANTONIO; MEGÍAS, MANUEL; OLLERO, FRANCISCO JAVIER; **Hungria, Mariangela**. 2015.
Regulatory nodD1 and nodD2 genes of Rhizobium tropici strain CIAT 899 and their roles in the early stages of molecular signaling and host-legume nodulation In BMC Genomics. , v.16, 251

143. doi RIBEIRO, RENAN AUGUSTO; MARTÍNEZ-ROMERO, ESPERANZA; ORMEÑO-ORRILLO, ERNESTO; MARTINS, TALITA BUSULINI; ROGEL, MARCO ANTONIO; DELAMUTA, JAKELINE RENATA MARÇON; **Hungria, Mariangela**. 2015.
Rhizobium ecuadorense sp. nov., an indigenous N2-fixing symbiont of the Ecuadorian common bean (Phaseolus vulgaris L.) genetic pool In International Journal of Systematic and Evolutionary Microbiology (Print). , v.65, 3162-3169

144. doi BALOTA, ELCIO LIBORIO; YADA, INES FUMIKO UBUKATA; AMARAL, HIGO FURLAN; NAKATANI, ANDRE SHIGUEYOSHI; **Hungria, Mariangela**; DICK, RICHARD PETER; COYNE, MARK STEVEN. 2015.
SOIL QUALITY IN RELATION TO FOREST CONVERSION TO PERENNIAL OR ANNUAL CROPPING IN SOUTHERN BRAZIL In Revista Brasileira de Ciência do Solo (Online). , v.39, 1003-1014

145. doi **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO; ARAUJO, RICARDO SILVA. 2015.
Soybean Seed Co-Inoculation with *Bradyrhizobium* spp. and *Azospirillum brasilense*: A New Biotechnological Tool to Improve Yield and Sustainability In American Journal of Plant Sciences. , v.06, 811-817

146. doi PYLRO, VICTOR SATLER; ROESCH, LUIZ FERNANDO WURDIG; ORTEGA, JOSÉ MIGUEL; AMARAL, ALEXANDRE MORAIS; TÓTOLA, MARCOS ROGÉRIO; HIRSCH, PENNY RUTH; ROSADO, ALEXANDRE SOARES; GÓES-NETO, ARISTÓTELES; DA COSTA DA SILVA, ARTUR LUIZ; ROSA, CARLOS AUGUSTO; MORAIS, DANIEL KUMAZAWA; ANDREOTE, FERNANDO DINI; DUARTE, GABRIELA FROIS; MELO, ITAMAR SOARES; SELDIN, LUCY; LAMBAIS, MÁRCIO RODRIGUES; **Hungria, Mariangela**; PEIXOTO, RAQUEL SILVA; KRUGER, RICARDO HENRIQUE; TSAI, SIU MUI; AZEVEDO, VASCO. 2014.
Brazilian Microbiome Project: Revealing the Unexplored Microbial Diversity-Challenges and Prospects In Microbial Ecology. , v.67, 237-241

147. doi SIQUEIRA, ARTHUR FERNANDES; ORMEÑO-ORRILLO, ERNESTO; SOUZA, RANGEL CELSO; RODRIGUES, ELISETE PAINS; ALMEIDA, LUIZ GONZAGA; Barcellos, Fernando Gomes; BATISTA, JESIANE STEFÂNIA; NAKATANI, ANDRE SHIGUEYOSHI; MARTÍNEZ-ROMERO, ESPERANZA; VASCONCELOS, ANA TEREZA; **Hungria, Mariangela**. 2014.
Comparative genomics of Bradyrhizobium japonicum CPAC 15 and Bradyrhizobium diazoefficiens CPAC 7: elite model strains for understanding symbiotic performance with soybean In BMC Genomics. , v.15, 420

148. doi **Hungria, Mariangela**; MENDES, IÊDA CARVALHO; NAKATANI, ANDRÉ SHIGUEYOSHI; DOS REIS-JUNIOR, FÁBIO BUENO; MORAIS, JOSÉ ZUCCA; DE OLIVEIRA, MARIA CRISTINA NEVES; FERNANDES, MARCELO FERREIRA. 2014.
Effects of the glyphosate-resistance gene and herbicides on soybean: Field trials monitoring biological nitrogen fixation and yield In Field Crops Research. , v.158, 43-54

149. doi NAKATANI, ANDRÉ SHIGUEYOSHI; FERNANDES, MARCELO FERREIRA; DE SOUZA, ROSINEI APARECIDA; DA SILVA, ADRIANA PEREIRA; DOS REIS-JUNIOR, FÁBIO BUENO; MENDES, IÊDA CARVALHO; **Hungria, Mariangela**. 2014.
Effects of the glyphosate-resistance gene and of herbicides applied to the soybean crop on soil microbial biomass and enzymes In Field Crops Research. , v.162, 20-29

150. doi JAVIER DE LUCA, MARCOS; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2014.
Feasibility of Lowering Soybean Planting Density without Compromising Nitrogen Fixation and Yield In Agronomy Journal (Print). , v.106, 2118-2124

151. doi CEREZINI, PAULA; PÍPOLO, ANTONIO EDUARDO; **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO. 2014.

Gas Exchanges and Biological Nitrogen Fixation in Soybean under Water Restriction In American Journal of Plant Sciences. , v.05, 4011-4017

152. SZILAGYI-ZECCHIN, VIVIAN; IKEDA, ANGELA; **Hungria, Mariangela**; ADAMOSKI, DOUGLAS; Kava-Cordeiro, Vanessa; Glienke, Chirlei; GALLI-TERASAWA, LYGIA. 2014.
Identification and characterization of endophytic bacteria from corn (Zea mays L.) roots with biotechnological potential in agriculture In AMB Express. , v.4, 26

153. BARROS DE CARVALHO, GESIELE ALMEIDA; PASCHOAL, A.; MARCELINO-GUIMARÃES, FRANCISMAR CORRÊA; **HUNGRIA, M.**. 2014.
In silico prediction of potencial novel microRNAs and their targets in Glycine max when in symbiosis with Bradyrhizobium japonicum2014 In Genetics and Molecular Research. , v.13, 8519-8529

154. BABUJIA, LETÍCIA CARLOS; SILVA, ADRIANA PEREIRA; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2014.
Microbial diversity in an Oxisol under no-tillage and conventional tillage in southern Brazil In Revista Ciência Agronômica (UFC. Online). , v.45, 863-870

155. de LUCA, M. J.; **HUNGRIA, M.**. 2014.
Plant densities and modulation of symbiotic nitrogen fixation in soybean In Scientia Agricola (USP. Impresso). , v.71, 181-187

156. GOMES, D. F.; BATISTA, J. S. S.; ROLLA, A. A. P.; SILVA, L. P.; TERASAWA, L. V. G.; **HUNGRIA, M.**. 2014.
Proteomic analysis of free-living Bradyrhizobium diazoefficiens: highlighting potential determinants of a successful symbiosis In BMC Genomics. , v.15, 643

157. **Hungria, Mariangela**; Kaschuk, Glaciela. 2014.
Regulation of N2 fixation and NO3−/NH4+ assimilation in nodulated and N-fertilized Phaseolus vulgaris L. exposed to high temperature stress In Environmental and Experimental Botany. , v.98, 32-39

158. DALL'AGNOL, R. F.; RIBEIRO, R. A.; DELAMUTA, J. R. M.; Ormeno-Orrillo, E.; Rogel, M. A.; ANDRADE, D. S.; MARTINEZ-ROMERO, E.; **HUNGRIA, M.**. 2014.
Rhizobium paranaense sp. nov., an effective N2-fixing symbiont of common bean (Phaseolus vulgaris L.) with broad geographical distribution in Brazil In International Journal of Systematic and Evolutionary Microbiology (Print). , v.64, 3222-3229

159. SILVA, ADRIANA PEREIRA DA; BABUJIA, LETÍCIA CARLOS; FRANCHINI, JULIO CEZAR; RALISCH, RICARDO; **Hungria, Mariangela**; GUIMARÃES, MARIA DE FÁTIMA. 2014.
Soil structure and its influence on microbial biomass in different soil and crop management systems In Soil & Tillage Research. , v.142, 42-53

160. ZULETA, LUIZ FERNANDO; CUNHA, CLAÚDIO DE; DE CARVALHO, FABÍOLA MARQUES; CIAPINA, LUCIANE PRIOLI; SOUZA, RANGEL CELSO; MERCANTE, FÁBIO MARTINS; DE FARIA, SERGIO MIANA; BALDANI, JOSÉ IVO; STRALIOTTO, ROSANGELA; **Hungria, Mariangela**; DE VASCONCELOS, ANA TEREZA. 2014.
The complete genome of Burkholderia phenoliruptrix strain BR3459a, a symbiont of Mimosa flocculosa: highlighting the coexistence of symbiotic and pathogenic genes In BMC Genomics. , v.15, 535

161. MARKS, BETTINA BERQUÓ; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**; MEGÍAS, MANUEL. 2013.
Biotechnological potential of rhizobial metabolites to enhance the performance of Bradyrhizobium spp. and Azospirillum brasilense inoculants with soybean and maize In AMB Express. , v.3, 21

162. **Hungria, Mariangela**; NOGUEIRA, MARCO ANTONIO; ARAUJO, RICARDO SILVA. 2013.
Co-inoculation of soybeans and common beans with rhizobia and azospirilla: strategies to improve sustainability In Biology and Fertility of Soils (Print). , v.49, 791-801

163. Torres, Adalgisa Ribeiro; ARAÚJO, WELINGTON LUIZ; CURSINO, LUCIANA; BARROS ROSSETTO, PRISCILLA; MONDIN, MATEUS; **Hungria, Mariangela**; AZEVEDO, JOÃO LÚCIO. 2013.
Colonization of Madagascar periwinkle (Catharanthus roseus), by endophytes encoding gfp marker In Archives of Microbiology. , v.195, 483-489

164. FERREIRA, E. P. B.; MERCANTE, F. M.; **Hungria, Mariangela**; MENDES, I. C.; ARAUJO, J. L. S.; FERNANDES JUNIOR, P. I.; ARAUJO, A. P.. 2013.
Contribuições para a melhoria da eficiência da fixação biológica do nitrogênio no feijoeiro comum no Brasil In Tópicos em Ciência do Solo. , v.8, 251-291

165. Zilli, Jerri Édson; PEREIRA, GILMARA MARIA DUARTE; FRANÇA JÚNIOR, IZAIAS; SILVA, KRISLE DA; **Hungria, Mariangela**; ROUWS, JANAINA RIBEIRO COSTA. 2013.
Dinâmica de rizóbios em solo do cerrado de Roraima durante o período de estiagem In Acta Amazonica (Impresso). , v.43, 153-160

166. BALOTA, E. L.; NOGUEIRA, MARCO ANTONIO; MENDES, I. C.; **Hungria, Mariangela**; FAGOTTI, D. S. L.; MELLO, G.M.P.; SOUZA, R. C.; MELO, W. J.. 2013.
Enzimas e seu papel na qualidade do solo In Tópicos em Ciência do Solo. , v.8, 189-249

167. OLIVEIRA, LUCIANA RUANO; RODRIGUES, ELISETE PAINS; MARCELINO-GUIMARÃES, FRANCISMAR CORRÊA; OLIVEIRA, ANDRÉ LUIZ MARTINEZ; **Hungria, Mariangela**. 2013.
Fast induction of biosynthetic polysaccharide genes lpxA, lpxE, and rkpI of Rhizobium sp. strain PRF 81 by common bean seed exudates is indicative of a key role in symbiosis In Functional & Integrative Genomics (Print). , v.13, 275-283

168. SOUZA, ROSINEI APARECIDA; BABUJIA, LETÍCIA CARLOS; SILVA, ADRIANA PEREIRA; FÁTIMA GUIMARÃES, MARIA; ARIAS, CARLOS ARRABAL; **Hungria, Mariangela**. 2013.
Impact of the ahas transgene and of herbicides associated with the soybean crop on soil microbial communities In Transgenic Research. , v.22, 877-892

169. SANTOS, MARIA APARECIDA; GERALDI, ISAIAS OLÍVIO; GARCIA, ANTONIO AUGUSTO FRANCO; BORTOLATTO, NÁGILA; SCHIAVON, ALINE; **Hungria, Mariangela**. 2013.
Mapping of QTLs associated with biological nitrogen fixation traits in soybean In Hereditas (Lund). , v.150, no-no

170. SILVA, A. P.; BABUJIA, L. C.; MATSUMOTO, L. S.; GUIMARÃES, M. F.; **M Hungria**. 2013.
Microbial diversity under different soil tillage and crop rotation systems in an oxisol of southern Brazil In The Open Agriculture Journal. , v.7, 40-47

171. IKEDA, ANGELA CRISTINA; BASSANI, LUCIANA LANGE; ADAMOSKI, DOUGLAS; STRINGARI, DANYELLE; CORDEIRO, VANESSA KAVA; Glienke, Chirlei; STEFFENS, MARIA BERENICE REYNAUD; **Hungria, Mariangela**; GALLI-TERASAWA, LYGIA VITORIA. 2013.
Morphological and genetic characterization of endophytic bacteria isolated from roots of different maize genotypes In Microbial Ecology (Online). , v.65, 154-160

172. RIBEIRO, RENAN AUGUSTO; ORMEÑO-ORRILLO, ERNESTO; DALL´AGNOL, REBECA FUZINATTO; GRAHAM, PETER H.; MARTINEZ-ROMERO, ESPERANZA; **Hungria, Mariangela**. 2013.
Novel Rhizobium lineages isolated from root nodules of the common bean (Phaseolus vulgaris L.) in Andean and Mesoamerican areas In Research in Microbiology (Paris). , v.164, 740-748

173. DELAMUTA, J. R. M.; RIBEIRO, R. A.; Ormeno-Orrillo, E.; MELO, I. S.; MARTINEZ-ROMERO, E.; **HUNGRIA, M.**. 2013.
Polyphasic evidence supporting the reclassification of Bradyrhizobium japonicum Group Ia strains as Bradyrhizobium diazoefficiens sp. nov. In International Journal of Systematic and Evolutionary Microbiology (Print). , v.63, 3342-3351

174. TORRES, A. R.; RODRIGUES, E. P.; GOMES, D. F.; **HUNGRIA, M.**. 2013.
Proteomic Analysis of Soybean [Glycine max (L.) Merrill] Roots Inoculated with Bradyrhizobium japonicum Strain CPAC 15 In Proteomics Insights. , 7-11

175. DALL'AGNOL, R. F.; RIBEIRO, R. A.; Ormeno-Orrillo, E.; Rogel, M. A.; DELAMUTA, J. R. M.; ANDRADE, D. S.; MARTINEZ-ROMERO, E.; **HUNGRIA, M.**. 2013.
Rhizobium freirei, a symbiont of Phaseolus vulgaris very effective in fixing nitrogen In International Journal of Systematic and Evolutionary Microbiology (Print). , v.63, 4167-4173

176. SOUZA, RENATA CAROLINI; CANTÃO, MAURICIO EGÍDIO; VASCONCELOS, ANA TEREZA RIBEIRO; NOGUEIRA, MARCO ANTONIO; **Hungria, Mariangela**. 2013.
Soil metagenomics reveals differences under conventional and no-tillage with crop rotation or succession In Applied Soil Ecology (Print). , v.72, 49-61

177. doi MARINOTTI, O.; CERQUEIRA, G. C.; DE ALMEIDA, L. G. P.; FERRO, M. I. T.; LORETO, E. L. D. S.; ZAHA, A.; TEIXEIRA, S. M. R.; WESPISER, A. R.; ALMEIDA E SILVA, A.; SCHLINDWEIN, A. D.; PACHECO, A. C. L.; DA SILVA, A. L. D. C.; GRAVELEY, B. R.; WALENZ, B. P.; DE ARAUJO LIMA, B.; RIBEIRO, C. A. G.; NUNES-SILVA, C. G.; DE CARVALHO, C. R.; DE ALMEIDA SOARES, C. M.; DE MENEZES, C. B. A.; MATIOLLI, C.; CAFFREY, D.; ARAUJO, D. A. M.; DE OLIVEIRA, D. M.; GOLENBOCK, D.; *et al* . 2013.
The Genome of Anopheles darlingi, the main neotropical malaria vector In Nucleic Acids Research. , v.X, 1-10

178. doi BARROS DE CARVALHO, GESIELE ALMEIDA; BATISTA, JESIANE STEFÂNIA; MARCELINO-GUIMARÃES, FRANCISMAR CORRÊA; COSTA DO NASCIMENTO, LEANDRO; **Hungria, Mariangela**. 2013.
Transcriptional analysis of genes involved in nodulation in soybean roots inoculated with Bradyrhizobium japonicum strain CPAC 15 In BMC Genomics. , v.14, 153

179. doi RODRIGUES, E. P.; TORRES, A. R.; BATISTA, J. S. S.; HUERGO, L.; **HUNGRIA, M.**. 2012.
A simple, economical and reproducible protein extraction protocol for 2-DE of soybean roots In Genetics and Molecular Biology (Impresso). , v.35, 348-352

180. doi CARVALHO, G. A. B.; BATISTA, J. S. S.; MARCELINO, F. C.; **Mariangela Hungria**. 2012.
Biblioteca subtrativa de raízes de soja em resposta à inoculação com Bradyrhizobium japonicum In BBR - Biochemistry and Biotechnology Reports. , v.1, 3-8

181. doi OLIVEIRA, ANDRÉIA MARA ROTTA; BANGEL, ELIANE VILLAMIL; **Hungria, Mariangela**; SILVEIRA, JOSÉ RICARDO PFEIFER; VARGAS, LUCIANO KAYSER; LISBOA, BRUNO BRITO. 2012.
Caracterização da região espaçadora 16-23S rDNA para diferenciação de estirpes de rizóbios utilizadas na produção de inoculantes comerciais no Brasil In Ciência Rural (UFSM. Impresso). , v.42, 1423-1429

182. doi DE OLIVEIRA CUNHA, C.; GODA ZULETA, L. F.; PAULA DE ALMEIDA, L. G.; PRIOLI CIAPINA, L.; LUSTRINO BORGES, W.; PITARD, R. M.; BALDANI, J. I.; STRALIOTTO, R.; DE FARIA, S. M.; **HUNGRIA, M.**; SOUSA CAVADA, B.; MERCANTE, F. M.; RIBEIRO DE VASCONCELOS, A. T.. 2012.
Complete Genome Sequence of Burkholderia phenoliruptrix BR3459a (CLA1), a Heat-Tolerant, Nitrogen-Fixing Symbiont of Mimosa flocculosa In Journal of Bacteriology (Print). , v.194, 6675-6676

183. doi SOUZA, R. A.; TELLES, T. S.; MACHADO, W.; **HUNGRIA, M.**; TAVARES FILHO, J.; GUIMARÃES, M. F.. 2012.
Effects of sugarcane harvesting with burning on the chemical and microbiological properties of the soil. In Agriculture, Ecosystems & Environment (Print). , v.155, 1-8

184. doi Torres, Adalgisa Ribeiro; Kaschuk, Glaciela; Saridakis, George P.; **HUNGRIA, M.**. 2012.
Genetic variability in Bradyrhizobium japonicum strains nodulating soybean [Glycine max (L.) Merrill] In World Journal of Microbiology & Biotechnology. , v.28, 1831-1835

185. doi Ormeno-Orrillo, E.; Rogel, M. A.; CHUEIRE, L. M. O.; TIEDJE, J. M.; MARTINEZ-ROMERO, E.; **HUNGRIA, M.**. 2012.
Genome Sequences of Burkholderia sp. Strains CCGE1002 and H160, Isolated from Legume Nodules in Mexico and Brazil In Journal of Bacteriology (Print). , v.194, 6927-6927

186. doi ORMEÑO-ORRILLO, ERNESTO; MENNA, PÂMELA; ALMEIDA, LUIZ GONZAGA P; OLLERO, FRANCISCO JAVIER; NICOLÁS, MARISA FABIANA; PAINS RODRIGUES, ELISETE; SHIGUEYOSHI NAKATANI, ANDRE; SILVA BATISTA, JESIANE STEFÂNIA; OLIVEIRA CHUEIRE, LIGIA MARIA; SOUZA, RANGEL CELSO; RIBEIRO VASCONCELOS, ANA TEREZA; MEGÍAS, MANUEL; **Hungria, Mariangela**; MARTÍNEZ-ROMERO, ESPERANZA. 2012.
Genomic basis of broad host range and environmental adaptability of Rhizobium tropici CIAT 899 and Rhizobium sp. PRF 81 which are used in inoculants for common bean (Phaseolus vulgaris L.) In BMC Genomics. , v.13, 735

187. doi ELIAS NETO, NICOLAU; LOUREIRO, MARIA DE FÁTIMA; NICOLÁS, MARISA FABIANA; MARIANOWSKI, TATIANA; Torres, Adalgisa Ribeiro; **Hungria, Mariangela**. 2012.
Identificação de espécies de Discolobium do Pantanal de Mato Grosso pelo uso de marcadores microssatélites (SSRs) In Semina. Ciências Agrárias (Impresso). , v.33, 3017-3022

188. doi DELAMUTA, J. R. M.; RIBEIRO, R. A.; MENNA, P.; BANGEL, E. V.; **HUNGRIA, M.**. 2012.
Multilocus sequence analysis (MLSA) of Bradyrhizobium strains: revealing high diversity of tropical diazotrophic symbiotic bacteria. In Brazilian Journal of Microbiology (Impresso). , v.43, 698-710-10

189. doi Salvucci, Rubén Darío; AULICINO, M.; **HUNGRIA, M.**; BALATTI, P. A.. 2012.
Nodulation capacity of Argentinian soybean (Glycine max L. Merr.) cultivars inoculated with commercial strains of Bradyrhizobium japonicum In American Journal of Plant Sciences. , v.3, 130-140

190. doi Kaschuk, Glaciela; Yin, Xinyou; **Hungria, Mariangela**; Leffelaar, Peter A.; Giller, Ken E.; Kuyper, Thomas W.. 2012.
Photosynthetic adaptation of soybean due to varying effectiveness of N2 fixation by two distinct Bradyrhizobium japonicum strains In Environmental and Experimental Botany. , v.76, 1-6

191. doi Cardoso, Juscélio Donizete; **Hungria, Mariangela**; Andrade, Diva S.. 2012.
Polyphasic approach for the characterization of rhizobial symbionts effective in fixing N2 with common bean (Phaseolus vulgaris L.) In Applied Microbiology and Biotechnology. , v.93, 2035-2049

192. doi GOMES, D. F.; BATISTA, J. S. S.; SCHIAVON, A. L.; ANDRADE, D. S.; **HUNGRIA, M.**. 2012.
Proteomic profiling of Rhizobium tropici PRF 81: Identification of conserved and specific responses to heat stress In BMC Microbiology (Online). , v.12, 84

193. doi da Silva Batista, Jesiane Stefânia; **HUNGRIA, M.**. 2012.
Proteomics reveals differential expression of proteins related to a variety of metabolic pathways by genistein-induced Bradyrhizobium japonicum strains In Journal of Proteomics. , v.75, 1211-1219

194. doi RIBEIRO, R. A.; Rogel, M. A.; Lopez-Lopez, A.; Ormeno-Orrillo, E.; BARCELLOS, F. G.; Martinez, J.; THOMPSON, F. L.; MARTINEZ-ROMERO, E.; **HUNGRIA, M.**. 2012.
Reclassification of Rhizobium tropici type A strains as Rhizobium leucaenae sp. nov. In International Journal of Systematic and Evolutionary Microbiology (Print). , v.62, 1180-1185

195. doi Black, Michael; Moolhuijzen, Paula; Chapman, Brett; Barrero, Roberto; Howieson, John; **Hungria, Mariangela**; Bellgard, Matthew. 2012.
The Genetics of Symbiotic Nitrogen Fixation: Comparative Genomics of 14 Rhizobia Strains by Resolution of Protein Clusters In Genes. , v.3, 138-166

196. doi GOMES, D. F.; BATISTA, J. S. S.; TORRES, A. R.; ANDRADE, D. S.; GALLI-TERASAWA, L. V.; **HUNGRIA, M.**. 2012.
Two-dimensional proteome reference map of Rhizobium tropici PRF 81 reveals several symbiotic determinants and strong resemblance with agrobacteria In Proteomics (Weinheim. Print). , v.12, 1-5

197. doi OLIVEIRA, J. P.; GALLI-TERASAWA, L. V.; GLIENKE, C.; CORDEIRO, V. K.; ARMSTRONG, L. C. T.; **HUNGRIA, M.**. 2011.
Genetic diversity of rhizobia in a Brazilian oxisol nodulating Mesoamerican and Andean genotypes of common bean (Phaseolus vulgaris L.). In World Journal of Microbiology & Biotechnology. , v.27, 643-650

198. doi Pedrosa, Fábio O.; Monteiro, Rose Adele; Wassem, Roseli; Cruz, Leonardo M.; Ayub, Ricardo A.; Colauto, Nelson B.; Fernandez, Maria Aparecida; Fungaro, Maria Helena P.; Grisard, Edmundo C.; **Hungria, Mariangela**; Madeira, Humberto M. F.; Nodari, Rubens O.; Osaku, Clarice A.; Petzl-Erler, Maria Luiza; Terenzi, Hernán; Vieira, Luiz G. E.; Steffens, Maria Berenice R.; Weiss, Vinicius A.; Pereira, Luiz F. P.; Almeida, Marina I. M.; Alves, Lysangela R.; Marin, Anelis; Araujo, Luiza Maria; Balsanelli, Eduardo; Baura, Valter A.; Chubatsu, Leda S.; Faoro, Helisson; Favetti, Augusto; Friedermann, Geraldo; Glienke, Chirlei; Karp, Susan; Kava-Cordeiro, Vanessa; Raittz, Roberto T.; Ramos, Humberto J. O.; Ribeiro, Enilze Maria S. F.; Rigo, Liu Un; Rocha, Saul N.; Schwab, Stefan; Silva, Anilda G.; Souza, Eliel M.. 2011.
Genome of Herbaspirillum seropedicae Strain SmR1, a Specialized Diazotrophic Endophyte of Tropical Grasses In PLOS Genetics (Online). , v.7, e1002064

199. doi Barcellos, Fernando Gomes; Hungria, Mariangela; Pizzirani-Kleiner, Aline Aparecida; **Hungria, Mariangela**. 2011.
Limited vegetative compatibility as a cause of somatic recombination in Trichoderma pseudokoningii In Brazilian Journal of Microbiology (Impresso). , v.42, 1625-1637

200. doi MENNA, P.; **HUNGRIA, M.**. 2011.
Phylogeny of nodulation and nitrogen-fixation genes in Bradyrhizobium: Supporting evidences for the theory of monophyletic origin and spread and maintenance by both horizontal and vertical transfer In International Journal of Systematic and Evolutionary Microbiology (Print). , 1-10

201. Kaschuk, Glaciela; Alberton, Odair; **HUNGRIA, M.**. 2011.
Quantifying effects of different agricultural land uses on soil microbial biomass and activity in Brazilian biomes: inferences to improve soil quality In Plant and Soil (Print). , v.338, 467-481

202. OLIVEIRA, D. G. P.; PINTO, F. G. S.; BARCELLOS, F. G.; ALVES, L. F. A.; **HUNGRIA, M.**. 2011.
Variabilidade genética de isolados de Beauveria spp. e virulência ao cascudinho Alphitobius diaperinus Panzer (Coleoptera: Tenebrionidae) In Semina. Ciências Agrárias (Online). , v.32, 147

203. KASCHUK, G.; **HUNGRIA, M.**; LEFFELAAR, P. A.; GILLER, K. E.; KUYPER, T. W.. 2010.
Differences in photosynthetic behaviour and leaf senescence of soybean (Glycine max [L.] Merrill) dependent on N2 fixation or nitrate supply In Plant Biology (Stuttgart). , v.12, 60-69

204. ZILLI, J. E.; CAMPO, R. J.; **HUNGRIA, M.**. 2010.
Eficácia da inoculação de Bradyrhizobium em pré-semeadura da soja In Pesquisa Agropecuária Brasileira (1977. Impressa). , v.45, 335-338

205. OLIVEIRA, L. R.; MARCELINO, F. C.; BARCELLOS, F. G.; RODRIGUES, E. P.; MEGIAS, M.; **HUNGRIA, M.**. 2010.
Expression of nodC, nodG and glgX genes of Rhizobium tropici strain PRF 81 evaluated by RT-qPCR In Functional & Integrative Genomics (Print). , v.10, 425-431

206. ROMA NETO, I.; RIBEIRO, R. A.; **Hungria, Mariangela**. 2010.
Genetic diversity of elite rhizobial strains of subtropical and tropical legumes based on the 16S rRNA and glnII genes In World Journal of Microbiology & Biotechnology. , v.22, 1291-1302

207. Carvalho, Fabiola M; Souza, Rangel C; Barcellos, Fernando G; **Hungria, Mariangela**; Vasconcelos, Ana Tereza R. 2010.
Genomic and evolutionary comparisons of diazotrophic and pathogenic bacteria of the order Rhizobiales In BMC Microbiology (Online). , v.10, 37

208. CAMPO, R. J.; ARAUJO, R. S.; MOSTASSO, F. L.; **HUNGRIA, M.**. 2010.
In-furrow inoculation of soybean as alternative to fungicide and micronutrient seed treatment In Revista Brasileira de Ciência do Solo (Impresso). , v.34, 1103-1112

209. ZILLI, J. E.; GIANLUPPI, V.; CAMPO, R. J.; ROUWS, R. C.; **HUNGRIA, M.**. 2010.
Inoculação da soja com Bradyrhizobium no sulco de semeadura alternativamente à inoculação de sementes In Revista Brasileira de Ciência do Solo (Impresso). , v.34, 1875-1881

210. **Hungria, Mariangela**; CAMPO, R. J.; SOUZA, E. M.; PEDROSA, F. O.. 2010.
Inoculation with selected strains of Azospirillum brasilense and A. lipoferum improves yields of maize and wheat in Brazil In Plant and Soil (Print). , v.331, 413-425

211. BABUJIA, L. C.; **HUNGRIA, M.**; FRANCHINI, J. C.; BROOKES, P. C.. 2010.
Microbial biomass and activity at various soil depths in a Brazilian oxisol after two decades of no-tillage and conventional tillage. In Soil Biology & Biochemistry. , v.43, 1-8

212. SILVA, A. P.; FRANCHINI, J. C.; BABUJIA, L. C.; SOUZA, R. A.; **HUNGRIA, M.**. 2010.
Microbial biomass under different soil and crop managements in short- to long-term experiments performed in Brazil In Field Crops Research. , v.119, 20-26

213. Kaschuk, Glaciela; Leffelaar, Peter A.; Giller, Ken E.; Alberton, Odair; Hungria, Mariangela; Kuyper, Thom W.; **Hungria, Mariangela**. 2010.
Responses of legumes to rhizobia and arbuscular mycorrhizal fungi: A meta-analysis of potential photosynthate limitation of symbioses In Soil Biology & Biochemistry. , v.42, 125-127

214. Kaschuk, Glaciela; Alberton, Odair; Hungria, Mariangela; **Hungria, Mariangela**. 2010.
Three decades of soil microbial biomass studies in Brazilian ecosystems: Lessons learned about soil quality and indications for improving sustainability In Soil Biology & Biochemistry. , v.42, 1-13

215. BATISTA, J. S. S.; TORRES, A. R.; **HUNGRIA, M.**. 2010.
Towards a two-dimensional proteomic reference map of Bradyrhizobium japonicum CPAC 15: spotlighting on “hypothetical proteins” In Proteomics (Weinheim. Print). , v.10, 3176-3189

216. KASCHUK, G.; KUYPER, T. W.; LEFFELAAR, P. A.; **HUNGRIA, M.**; GILLER, K. E.. 2009.
Are the rates of photosynthesis stimulated by the carbon sink strength of rhizobial and arbuscular mycorrhizal symbioses? In Soil Biology & Biochemistry. , v.41, 1233-1244

217. BORTOLAN, S.; BARCELLOS, F. G.; MARCELINO, F. C.; **HUNGRIA, M.**. 2009.
Expressão dos genes nodC, nodW e nopP em Bradyrhizobium japonicum estirpe CPAC 15 por RT-PCR In Pesquisa Agropecuária Brasileira (1977. Impressa). , v.44, 1491-1498

218. BARCELLOS, F. G.; BATISTA, J. S. S.; MENNA, P.; **HUNGRIA, M.**. 2009.
Genetic differences between Bradyrhizobium japonicum variant strains contrasting in N2-fixation efficiency revealed by representational difference analysis In Archives of Microbiology. , v.191, 113-122

219. TORRES, A. R.; CURSINO, L.; MURO-ABAD, J. I.; GOMES, E. A.; ARAÚJO, E. F.; CASSINI, S. T.; **HUNGRIA, M.**. 2009.
Genetic diversity of indigenous common bean (Phaseolus vulgaris L.) rhizobia from the state of Minas Gerais, Brazil. In Brazilian Journal of Microbiology (Impresso). , v.40, 852-856

220. Zilli, Jerri Édson; Ribeiro, Karen Gonçalves; Campo, Rubens José; **Hungria, Mariangela**. 2009.
Influence of fungicide seed treatment on soybean nodulation and grain yield In Revista Brasileira de Ciência do Solo (Impresso). , v.33, 917-923

221. CAMPO, R. J.; ARAUJO, R. S.; **HUNGRIA, M.**. 2009.
Molybdenum-enriched soybean seeds enhance N accumulation, seed yield, and seed protein content in Brazil In Field Crops Research. , v.110, 219-224

222. MILAGRE, S. T.; MACIEL, C. D.; SHINODA, A. A.; HUNGRIA, M.; ALMEIDA, J. R. B.. 2009.
Multidimensional cluster stability analysis from a Brazilian Bradyrhizobium sp. RFLP/PCR data set In Journal of Computational and Applied Mathematics. , v.227, 308-319

223. RIBEIRO, R. A.; BARCELLOS, F. G.; THOMPSON, F. L.; **HUNGRIA, M.**. 2009.
Multilocus sequence analysis of Brazilian Rhizobium strains microsymbionts of common beans (Phaseolus vulgaris) reveals unexpected taxonomic diversity In Research in Microbiology (Paris). , v.160, 297-306

224. CAMPO, R. J.; ARAUJO, R. S.; **HUNGRIA, M.**. 2009.
Nitrogen fixation with the soybean crop in Brazil: compatibility between seed treatment with fungicides and bradyrhizobial inoculants In Symbiosis (Philadelphia, Pa.). , v.48, 154-163

225. PINTO, F. G. S.; CHUEIRE, L. M. O.; VASCONCELOS, A. T. R.; NICOLÁS, M. F.; ALMEIDA, L. G. P.; SOUZA, R. C.; MENNA, P.; BARCELLOS, F. G.; MEGIAS, M.; **HUNGRIA, M.**. 2009.
Novel genes related to nodulation, secretion systems, and surface structures revealed by a genome draft of Rhizobium tropici strain PRF 81 In Functional & Integrative Genomics. , v.9, 263-270

226. MENNA, P.; BARCELLOS, F. G.; **HUNGRIA, M.**. 2009.
Phylogeny and taxonomy of a diverse collection of Bradyrhizobium strains based on multilocus sequence analysis of the 16S rRNA gene, ITS region and glnII, recA, atpD and dnaK genes In International Journal of Systematic and Evolutionary Microbiology. , v.59, 2934-2950

227. CARDOSO, J. D.; GOMES, D. F.; GOES, K. C. G.; FONSECA JUNIIOR, N.S.; DORIGO JUNIOR, O. F.; **HUNGRIA, M.**; ANDRADE, D. S.. 2009.
Relationship between total nodulation and nodulation at the root crown of peanut, soybean and common bean plants In Soil Biology & Biochemistry. , v.41, 1233-1244

228. BINDE, D. R.; PEREIRA, P. M.; BANGEL, E. V.; BARCELLOS, F. G.; **HUNGRIA, M.**. 2009.
rep-PCR fingerprinting and taxonomy based on the sequencing of the 16S rRNA gene of 54 elite commercial rhizobial strains In Applied Microbiology and Biotechnology. , v.83, 897-908

229. MENNA, P.; PEREIRA, A. A.; BANGEL, E. V.; **HUNGRIA, M.**. 2009.
rep-PCR of tropical rhizobia for strain fingerprinting, biodiversity appraisal and as a taxonomic and phylogenetic tool In Symbiosis (Philadelphia, Pa.). , v.48, 120-130

230. HUNGRIA, M.; FRANCHINI, J. C.; BRANDÃO-JUNIOR, O.; KASCHUK, G.; SOUZA, R. A.. 2009.
Soil microbial activity and crop sustainability in a long-term experiment with three soil-tillage and two crop-rotation systems In Applied Soil Ecology. , v.42, 288-296

231. MENDES, I. C.; REIS-JUNIOR, F. B.; HUNGRIA, M.; SOUZA, D. M. G.; CAMPO, R. J.. 2008.

Adubação nitrogenada suplementar tardia na soja cultivada em Latossolos do Cerrado. In Pesquisa Agropecuária Brasileira. , v.43, 1053-1060

232. STOCCO, P.; SANTOS, J. C. P.; VARGAS, V.P.; **HUNGRIA, M.**. 2008.
Avaliação da biodiversidade de rizóbios simbiontes do feijoeiro (Phaseolus vulgaris L.) em Santa Catarina In Revista Brasileira de Ciência do Solo. , v.32, 1107-1120

233. SOUZA, R. A.; HUNGRIA, M.; FRANCHINI, J. C.; CHUEIRE, L. M. O.; BARCELLOS, F. G.; CAMPO, R. J.. 2008.
Avaliação qualitativa e quantitativa da microbiota do solo e da fixação biológica do nitrogênio pela soja In Pesquisa Agropecuária Brasileira. , v.43, 71-82

234. BRANDÃO-JUNIOR, O.; HUNGRIA, M.; FRANCHINI, J. C.; ESPÍNDOLA, C. R.. 2008.
Comparação entre os métodos de fumigação-extração e fumigação-incubação para a determinação do carbono da biomassa microbiana em um Latossolo Vermelho distroférrico eutrófico do norte do Paraná In Revista Brasileira de Ciência do Solo. , v.32, 1911-1919

235. SOUZA, R. A.; HUNGRIA, M.; FRANCHINI, J. C.; MACIEL, C. D.; CAMPO, R. J.; ZAIA, D. A. M.. 2008.
Conjunto mínimo de parâmetros para a avaliação da microbiota do solo e da fixação biológica do nitrogênio pela soja In Pesquisa Agropecuária Brasileira. , v.43, 83-91

236. BARRETO, E. S.; TORRES, A. R.; BARRETO, M. R.; VASCONCELOS, A. T. R.; ALTOLFI-FILHO, S.; **HUNGRIA, M.**. 2008.
Diversity in antifungal activity of strains of Chromobacterium violaceum from the Brazilian Amazon In Journal of Industrial Microbiology and Biotechnology. , v.35, 783-790

237. TORRES, A. R.; ARAUJO, W. L.; CURSINO, L.; HUNGRIA, M.; PLOTEGHER, F.; MOSTASSO, F. L.; AZEVEDO, J. L.. 2008.
Diversity of endophytic enterobacteria associated with different host plants In Journal of Microbiology. , v.32, 373-379

238. GODOY, L. P.; VASCONCELOS, A. T. R.; CHUEIRE, L. M. O.; SOUZA, R. C.; NICOLÁS, M. F.; BARCELLOS, F. G.; **HUNGRIA, M.**. 2008.
Genomic panorama of Bradyrhizobium japonicum CPAC 15, a commercial strain largely established in Brazilian soils and belonging to the same serogroup as USDA 123 In Soil Biology & Biochemistry. , v.40, 2742-2753

239. ZILLI, J. E.; MARSON, L. C.; MARSON, B. F.; GIANLUPPI, V.; CAMPO, R. J.; **HUNGRIA, M.**. 2008.
Inoculação da soja com Bradyrhizobium através de pulverização em cobertura. In Pesquisa Agropecuária Brasileira (1977. Impressa). , v.43, 541-544

240. NICOLÁS, M. F.; BARCELLOS, F. G.; HESS, P. N.; **HUNGRIA, M.**. 2007.
ABC transporters in Mycoplasma hyopneumoniae and Mycoplasma synoviae: insights into evolution and pathogenicity In Genetics and Molecular Research. , v.30, 202-211

241. BARCELLOS, F. G.; MENNA, P.; BATISTA, J. S. S.; **HUNGRIA, M.**. 2007.
Evidence of horizontal transfer of symbiotic genes from a Bradyrhizobium japonicum inoculant strain to indigenous Sinorhizobium (Ensifer) fredii and Bradyrhizobium elkanii in a Brazilian savannah soil In Applied and Environmental Microbiology (Print). , v.73, 2635-2643

242. FRANCHINI, J. C.; CRISPINO, C. C.; SOUZA, R. A.; TORRES, E.; **HUNGRIA, M.**. 2007.
Microbiological parameters as indicators of soil quality under various soil management and crop rotation systems in southern Brazil In Soil & Tillage Research. , v.92, 18-29

243. GRANGE, L.; HUNGRIA, M.; GRAHAM, P. H.; MARTINEZ-ROMERO, E.. 2007.
New insights into the origins and evolution of rhizobia that nodulate common bean (Phaseolus vulgaris) in Brazil In Soil Biology & Biochemistry. , v.39, 867-876

244. PINTO, F. G. S.; HUNGRIA, M.; MERCANTE, F.M.. 2007.
Polyphasic characterization of Brazilian Rhizobium tropici strains effective in fixing N2 with common beans (Phaseolus vulgaris L.) In Soil Biology & Biochemistry. , v.39, 1851-1864

245. LOUREIRO, M. F.; KASCHUK, G.; ALBERTON, O.; **HUNGRIA, M.**. 2007.
Soybean (Glycine max (L.) Merrill) rhizobial diversity in Brazilian oxisols of the State of Mato Grosso under various soil, cropping and inoculation managements In Biology and Fertility of Soils. , v.43, 665-674

246. BATISTA, J. S. S.; BARCELLOS, F. G.; MENDES, I. C.; **HUNGRIA, M.**. 2007.
Variability in Bradyrhizobium japonicum and B. elkanii seven years after introduction of both the exotic symbiont and the soybean host in a Cerrados soil In Microbial Ecology. , v.53, 270-284

247. PEREIRA, A. A.; HUNGRIA, M.; FRANCHINI, J. C.; KASCHUK, G.; CHUEIRE, L. M. O.; CAMPO, R. J.; TORRES, E.. 2007.
Variações qualitativas e quantitativas na microbiota do solo e na fixação biológica do nitrogênio sob diferentes manejos com soja In Revista Brasileira de Ciência do Solo. , v.31, 1387-1412

248. KASCHUK, G.; HUNGRIA, M.; SANTOS, J. C. P.; BERTON-JUNIOR, J. F.. 2006.
Differences in common bean rhizobial populations associated with soil tillage management in southern Brazil In Soil & Tillage Research. , v.87, 205-217

249. HUNGRIA, M.; CHUEIRE, L. M. O.; MEGIAS, M.; LAMRABET, Y.; PROBANZA, A.; GUTTIERREZ-MAÑERO, F. J.; CAMPO, R. J.. 2006.
Genetic diversity of indigenous tropical fast-growing rhizobia isolated from soybean nodules In Plant and Soil (Print). , v.288, 343-356

250. KASCHUK, G.; HUNGRIA, M.; ANDRADE, D. S.; CAMPO, R. J.. 2006.
Genetic diversity of rhizobia associated with common bean grown under the no-tillage and conventional system in Southern Brazil In Applied Soil Ecology. , v.32, 210-220

251. ALBINO, U. B.; SARIDAKIS, D. P.; FERREIRA, M. C.; HUNGRIA, M.; VINUESA, P.; ANDRADE, G.. 2006.
High diversity of diazotrophic bacteria associated with the carnivorous plant Drosera villosa var. villosa growing in oligotrophic habitats of Brazil In Plant and Soil (Print). , v.182, 331-341

252. SANTOS, M. A.; NICOLÁS, M. F.; **HUNGRIA, M.**. 2006.
Identificação de QTL associados à simbiose entre Bradyrhizobium japonicum/B. elkanii e a soja [Glycine max (L.) Merr.] In Pesquisa Agropecuária Brasileira. , v.41, 67-75

253. NICOLÁS, M. F.; HUNGRIA, M.; ARIAS, C. A. A.. 2006.
Identification of quantitative trait loci controlling nodulation and shoot mass in progenies from two Brazilian soybean cultivars In Field Crops Research. , v.95, 355-366

254. MENNA, P.; HUNGRIA, M.; BARCELLOS, F. G.; BANGEL, E. V.; HESS, P. N.; MARTINEZ-ROMERO, E.. 2006.
Molecular phylogeny based on the 16S rRNA gene of elite rhizobial strains used in Brazilian commercial inoculants In Systematic and Applied Microbiology. , v.29, 315-332

255. HUNGRIA, M.; FRANCHINI, J. C.; CAMPO, R. J.; CRISPINO, C. C.; MORAES, J. Z.; SIBALDELLI, R. N. R.; MENDES, I. C.; ARIHARA, J.. 2006.
Nitrogen nutrition of soybean in Brazil: contributions of biological N2 fixation and of N fertilizer to grain yield In Canadian Journal of Plant Science. , v.86, 927-939

256. NOGUEIRA, M. A.; ALBINO, U. B.; BRANDÃO-JUNIOR, O.; BRAUN, G.; CRUZ, M. F.; DIAS, B. A.; DUARTE, R. T. D.; GIOPPO, N. M. R.; MENNA, P.; ORLANDI, J. M.; RAIMAM, M. P.; RAMPAZO, L. G. L.; SANTOS, M. A.; SILVA, M. E. Z.; VIEIRA, F. P.; TOREZAN, J. M. D.; **HUNGRIA, M.**; ANDRADE, G.. 2006.
Promising indicators for assessment of agroecosystems alteration among natural, reforested and agricultural land use in southern Brazil In Agriculture, Ecosystems & Environment (Print). , v.115, 237-247

257. GERMANO, M. G.; MENNA, P.; MOSTASSO, F. L.; **HUNGRIA, M.**. 2006.
RFLP analysis of the RNA operon of a Brazilian collection of bradyrhizobial strains from thirty-three legume species In International Journal of Systematic and Evolutionary Microbiology. , v.56, 217-229

258. ALBERTON, O.; KASCHUK, G.; **HUNGRIA, M.**. 2006.
Sampling effects on the assessment of genetic diversity of rhizobia associated with soybean and common bean. In Soil Biology & Biochemistry. , v.38, 1298-1307

259. HUNGRIA, M.; ALTOLFI-FILHO, S.; CHUEIRE, L. M. O.; NICOLÁS, M. F.; GERMANO, M. G.; SANTOS, E. B. P.; BULBOL, M. R.; SOUZA-FILHO, A.; ASSUMÇÃO, E. N.; VASCONCELOS, A. T. R.. 2005.
Genetic characterization of Chromobacterium isolates from black water environments in the Brazilian Amazon In Letters in Applied Microbiology. , v.41, 17-23

260. ARAÚJO, F. F.; HUNGRIA, M.; HENNING, A. A.. 2005.
Phytohormones and antibiotics produced by Bacillus subtilis and their effects on seed pathogenic fungi and soybean root development In World Journal of Microbiology & Biotechnology. , v.21, 1639-1645

261. VASCONCELOS, A. T. R.; Brazilian National Genome Consortium; HUNGRIA, M.; et al.. 2005.
Swine and poultry pathogens: the complete genome sequences of two strains of Mycoplasma hyopneumoniae and a strain of Mycoplasma synoviae In Journal of Bacteriology (Print). , v.187, 5568-5577

262. GRAHAM, P. H.; **HUNGRIA, M.**; TLUSTY, B.. 2004.
Breeding for Better Nitrogen Fixation in Grain Legumes: Where do the Rhizobia Fit In? In Crop Management. , 1

263. MENDES, I. C.; VARGAS, M. A. T.; **HUNGRIA, M.**. 2004.
Establishment of Bradyrhizobium japonicum and B. elkanii in a Brazilian Cerrados oxisol In Biology and Fertility of Soils. , v.39, 300-310

264. GRANGE, L.; **HUNGRIA, M.**. 2004.
Genetic diversity of indigenous common bean (Phaseolus vulgaris) rhizobia in two Brazilian ecosystems In Soil Biology & Biochemistry. , v.36, 1389-1398

265. HUNGRIA, M.; NICOLÁS, M. F.; GUIMARAES, C. T.; JARDIM, S. N.; GOMES, E. A.; VASCONCELOS, A. T. R.. 2004.
Tolerance to stresses and environmental adaptability of Chromobacterium violaceum In GENETICS AND MOLECULAR RESEARCH. , v.3, 102-116

266. HUNGRIA, M.; CAMPO, R. J.; MENDES, I. C.. 2003.
Benefits of inoculation of the common bean (Phaseolus vulgaris) crop with efficient and competitive Rhizobium tropici strains In Biology and Fertility of Soils. , v.39, 88-93

267. FERNANDES, M. F.; FERNANDES, R. P. M.; **HUNGRIA, M.**. 2003.
Caracterização genética de rizóbios nativos dos tabuleiros eficientes para as culturas do guandu e caupi. In Pesquisa Agropecuária Brasileira. , v.38, 911-920

268. CHUEIRE, L. M. O.; BANGEL, E. V.; MOSTASSO, F. L.; CAMPO, R. J.; PEDROSA, F. O.; **HUNGRIA, M.**. 2003.
Classificação taxonômica das estirpes de rizóbio recomendadas para as culturas da soja e do feijoeiro baseada no sequenciamento do gene 16S rRNA In Revista Brasileira de Ciência do Solo. , v.27, 833-840

269. GALLI-TERASAWA, L. V.; GLIENKE-BLANCO, C.; **HUNGRIA, M.**. 2003.
Diversity of a soybean rhizobial population adapted to a Cerrados soil In World Journal of Microbiology and Biotechnology. , v.19, 933-939

270. FERNANDES, M. F.; FERNANDES, R. P. M.; **HUNGRIA, M.**. 2003.
Seleção de rizóbios nativos para guandu, caupi e feijão-de-porco nos tabuleiros costeiros de Sergipe In Pesquisa Agropecuária Brasileira. , v.38, 835-842

271. MENDES, I. C.; HUNGRIA, M.; VARGAS, M. A. T.. 2003.
Soybean response to starter nitrogen and Bradyrhizobium inoculation on a Cerrado oxisol under no-tillage and conventional tillage systems In Revista Brasileira de Ciência do Solo (Impresso). , v.27, 81-87

272. Brazilian National Genome Consortium; **HUNGRIA, M.**. 2003.
The complete genome sequence of Chromobacterium violaceum reveals remarkable and exploitable bacterial adaptability In Proceedings of the National Academy of Sciences of the United States of America. , v.100, 11660-11665

273. CHEN, L. S.; FIGUEIREDO, A.; VILLANI, H.; MICHAJLUK, J.; **HUNGRIA, M.**. 2002.
Diversity and symbiotic effectiveness of rhizobia isolated from field-grown soybean nodules in Paraguay In Biology and Fertility of Soils (Print). , v.35, 448-457

274. NICOLÁS, M. F.; ARIAS, C. A. A.; **HUNGRIA, M.**. 2002.
Genetics of nodulation and nitrogen fixation in Brazilian soybean cultivars. In Biology and Fertility of Soils (Print). , v.36, 109-117

275. RAMOS, H. J. O.; RONCATO-MACCARI, L. D. B. R.; SOUZA, E. M.; SOARES-RAMOS, J. R. L.; HUNGRIA, M.; PEDROSA, F. O.. 2002.
Monitoring Azospirillum-wheat interactions using gfp and gusA genes constitutively expressed from a new broad-host range vector In Journal of Biotechnology. , v.97, 243-252

276. FERREIRA, M. C.; **HUNGRIA, M.**. 2002.
Recovery of soybean inoculant strains from uncropped soils in Brazil In Field Crops Research. , v.79, 139-152

277. MOSTASSO, L.; MOSTASSO, F. L.; DIAS, B. G.; VARGAS, M. A. T.; **HUNGRIA, M.**. 2002.
Selection of bean (Phaseolus vulgaris L.) rhizobial strains for the Brazilian Cerrados. In Field Crops Research. , v.73, 121-132

278. KING, G.; **HUNGRIA, M.**. 2002.
Soil-atmosphere CO exchanges and microbial biogeochemistry of CO transformation in a Brazilian agroecosystem. In Applied and Environmental Microbiology. , v.68, 4480-4485

279. CAMPOS, B. C.; HUNGRIA, M.; TEDESCO, V.. 2001.
Eficiência da fixação biológica de N2 por estirpes de Bradyrhizobium na soja em plantio direto In Revista Brasileira de Ciência do Solo (Impresso). , v.25, 583-592

280. HUNGRIA, M.; CHUEIRE, L. M. O.; COCA, R. G.; MEGIAS, M.. 2001.
Preliminary characterization of fast growing strains isolated from soybean nodules in Brazil. In Soil Biology & Biochemistry. , v.33, 1349-1361

281. HUNGRIA, M.; CAMPO, R. J.; CHUEIRE, L. M. O.; GRANGE, L.; MEGIAS, M.. 2001.
Symbiotic effectiveness of fast-growing rhizobial strains isolated from soybean nodules in Brazil. In Biology and Fertility of Soils (Print). , v.33, 387-394

282. BRANDÃO-JUNIOR, O.; **HUNGRIA, M.**. 2000.
Efeito de concentrações de solução açucarada na aderência do inoculante turfoso às sementes, na nodulação e no rendimento da soja In Revista Brasileira de Ciência do Solo (Impresso). , v.24, 515-526

283. BRANDÃO-JUNIOR, O.; **HUNGRIA, M.**. 2000.
Efeito de doses de inoculante turfoso na fixação biológica do nitrogênio pela cultura da soja In Revista Brasileira de Ciência do Solo (Impresso). , v.24, 527-535

284. HUNGRIA, M.; VARGAS, M. A. T.. 2000.
Environmental factors impacting N2 fixation in legumes grown in the tropics, with an emphasis on Brazil. In Field Crops Research. , v.65, 151-164

285. CHEN, L. S.; FIGUEIREDO, A.; PEDROSA, F. O.; **HUNGRIA, M.**. 2000.
Genetic characterization of soybean rhizobia in Paraguay In Applied and Environmental Microbiology (Print). , v.66, 5099-5103

286. CHUEIRE, L. M. O.; NISHI, C. Y. M.; LOUREIRO, M. F.; **HUNGRIA, M.**. 2000.
Identificação das estirpes de Bradyrhizobium e Rhizobium utilizadas em inoculantes comerciais para as culturas da soja e do feijoeiro pela técnica de PCR com primers aleatórios ou específicos. In Agricultura Tropical. , v.4, 80-95

287. HUNGRIA, M.; ANDRADE, D. S.; CHUEIRE, L. M. O.; PROBANZA, A.; GUTTIERREZ-MAÑERO, F. J.; MEGIAS, M.. 2000.
Isolation and characterization of new efficient and competitive bean (Phaseolus vulgaris L.) rhizobia from Brazil. In Soil Biology & Biochemistry. , v.32, 1515-1528

288. VARGAS, M. A. T.; MENDES, I. C.; **HUNGRIA, M.**. 2000.
Response of field-grown bean (Phaseolus vulgaris L.) to Rhizobium inoculation and nitrogen fertilization in two Cerrados soils In BIOLOGY AND FERTILITY OF SOILS. , v.32, 228-233

289. FERREIRA, M. C.; ANDRADE, D. S.; CHUEIRE, L. M. O.; TAKEMURA, S. M.; **HUNGRIA, M.**.. 2000.
Tillage method and crop rotation effects on the population sizes and diversity of bradyrhizobia nodulating soybean In Soil Biology & Biochemistry. , v.32, 627-637

290. **HUNGRIA, M.**; BOHRER, T. R. J.. 2000.
Variability of nodulation and dinitrogen fixation capacity among soybean cultivars In Biology and Fertility of Soils (Print). , v.31, 45-52

291. SANTOS, M. A.; VARGAS, M. A. T.; **HUNGRIA, M.**.. 1999.
Characterization of soybean bradyrhizobia strains adapted to the Brazilian Cerrados Region In FEMS Microbiology Ecology. , v.30, 261-272

292. HUNGRIA, M.; ARAÚJO, F. F.. 1999.
Nodulação e rendimento de soja co-inoculada com Bacillus subtilis e Bradyrhizobium japonicum/B. elkanii In Pesquisa Agropecuária Brasileira. , v.34, 1633-1643

293. BALOTA, E. L.; LOPES, E. S.; HUNGRIA, M.; DOBEREINER, J.. 1999.
Ocorrência de bactérias diazotróficas e fungos micorrízicos arbusculares na cultura da mandioca In Pesquisa Agropecuária Brasileira (1977. Impressa). , v.34, 1265-1276

294. BOHRER, T. R. J.; **HUNGRIA, M.**.. 1998.
Avaliação de cultivares de soja quanto à fixacao biologica do nitrogênio In Pesquisa Agropecuária Brasileira. , v.33, 937-952

295. BALOTA, E. L.; COLOZZI-FILHO, A.; ANDRADE, D. S.; **HUNGRIA, M.**.. 1998.
Biomassa microbiana e sua atividade em solos sob diferentes sistemas de preparo e sucessão de culturas In Revista Brasileira de Ciência do Solo (Impresso). , v.22, 641-649

296. **HUNGRIA, M.**; BODDEY, L. H.; SANTOS, M. A.; VARGAS, M. A. T.. 1998.
Nitrogen fixation capacity and nodule occupancy by Bradyrhizobium japonicum and B. elkanii strains In Biology and Fertility of Soils (Print). , v.27, 393-399

297. BALOTA, E. L.; LOPES, E. S.; LIMA, J.; HUNGRIA, M.; DOBEREINER, J.. 1997.
Avaliação da produção in vitro de ácido indol acético por bactérias diazotróficas pelo método colorimétrico e em HPLC In Arquivos de Biologia e Tecnologia. , v.40, 485-491

298. BALOTA, E. L.; LOPES, E. S.; HUNGRIA, M.; DOBEREINER, J.. 1997.
Inoculação de bactérias diazotróficas e fungos micorrízico-arbusculares na cultura da mandioca In Pesquisa Agropecuária Brasileira. , v.32, 627-639

299. HUNGRIA, M.; ANDRADE, D. S.; COLOZZI-FILHO, A.; BALOTA, E. L.. 1997.
Interação entre microrganismos do solo, feijoeiro e milho em monocultura ou consórcio In Pesquisa Agropecuária Brasileira. , v.32, 807-818

300. **HUNGRIA, M.**; STACEY, G.. 1997.
Molecular signals exchanged between host plants and rhizobia: Basic aspects and potential application in agriculture In Soil Biology & Biochemistry. , v.29, 819-830

301. CHUEIRE, L. M. O.; **HUNGRIA, M.**.. 1997.
N2 -fixation ability of Brazilian soybean cultivars with Sinorhizobium fredii and Sinorhizobium xinjiangensis In Plant and Soil (Print). , v.196, 1-5

302. BODDEY, L. H.; **HUNGRIA, M.**.. 1997.
Phenotypic grouping of Brazilian Bradyrhizobium strains which nodulate soybean In Biology and Fertility of Soils (Print). , v.25, 407-415

303. **HUNGRIA, M.**; NISHI, C. Y. M.; COHN, J.; STACEY, G.. 1996.
Comparison between parental and variant soybeanBradyrhizobium strains with regard to the production of lipo-chitin nodulation signals, early stages of root infection, nodule occupancy, and N2 fixation rates In Plant and Soil (Print). , v.186, 331-341

304. NISHI, C. Y. M.; **HUNGRIA, M.**.. 1996.
Efeito da reinoculação na soja (Glycine max (L.) Merrill) em um solo com população estabelecida de Bradyrhizobium com as estirpes SEMIA 566, 587, 5019, 5079 e 5080 In Pesquisa Agropecuária Brasileira (1977. Impressa). , v.31, 359-368

305. ARAÚJO, F. F.; MUNHOZ, R. E. V.; **HUNGRIA, M.**.. 1996.
Inicio da nodulação em sete cultivares de feijoeiro inoculadas com duas estirpes de Rhizobium In Pesquisa Agropecuária Brasileira. , v.31, 435-443

306. NISHI, C. Y. M.; BODDEY, L. H.; VARGAS, M. A. T.; **HUNGRIA, M.**.. 1996.
Morhological, physiological and genetic characterization of two new Bradyrhizobium strains recently recommended as Brazilian commercial inoculants for soybean In Symbiosis (Philadelphia). , v.20, 147-162

307. BALOTA, E. L.; LOPES, E. S.; DOBEREINER, J.; **HUNGRIA, M.**.. 1995.
Interações e efeitos fisiologicos de bactérias diazotróficas e fungos micorrízicos arbusculares na mandioca In Pesquisa Agropecuária Brasileira. , v.30, 1335-1345

308. SFREDO, G. J.; BORKERT, C. M.; CATTELAN, A. J.; **HUNGRIA, M.**.. 1994.
Adubação e calagem para a soja no Brasil In Informativo Abrates. , v.4, 19-43

309. **HUNGRIA, M.**.. 1994.
Sinais moleculares envolvidos na nodulação das leguminosa por rizóbio In Revista Brasileira de Ciência do Solo. , v.18, 339-364

310. HUNGRIA, M.; PHILLIPS, D. A.. 1993.
Effects of a Seed Color Mutation on Rhizobial In Molecular Plant-Microbe Interactions. , v.6, 418

311. **HUNGRIA, M.**; FRANCO, A. A.. 1993.
Effects of high temperature on nodulation and nitrogen fixation by Phaseolus vulgaris L. In Plant and Soil (Print). , v.149, 95-102

312. **HUNGRIA, M.**; ELLIS, J. M.; HARDY, R. W. F.; EAGLESHAM, A. R. J.. 1993.
Light-stimulated 14CO2 uptake and acetylene reduction by bacteriochlorophyll containing stem nodule isolate BTAi 1 In Biology and Fertility of Soils (Print). , v.15, 208-214

313. **HUNGRIA, M.**; GUTTIERREZ-MAÑERO, F. J.; SPRENT, J. I.. 1993.
New sources of high-temperature tolerant rhizobia for Phaseolus vulgaris L. In Plant and Soil (Print). , v.149, 103-109

314. **HUNGRIA, M.**; JOHNSTON, A. W. B.; PHILLIPS, D. A.. 1992.
Effects of Flavonoids Released Naturally from Bean ( ) on -Regulated Gene Transcription in bv. In Molecular Plant-Microbe Interactions. , v.5, 199

315. **HUNGRIA, M.**; EAGLESHAM, A. R. J.; HARDY, R. W. F.. 1992.
Physiological comparisons of root and stem nodules of Aeschynomene scabra and Sesbania rostrata In Plant and Soil (Print). , v.139, 7-13

316. **HUNGRIA, M.**; BARRADAS, C. A. A.; WALLSGROVE, R. M.. 1991.
Nitrogen Fixation, Assimilation and Transport During the Initial Growth Stage of *Phaseolus vulgaris* L In Journal of Experimental Botany. , v.42, 839-844

317. **HUNGRIA, M.**; JOSEPH, C. M.; PHILLIPS, D. A.. 1991.
Anthocyanidins and Flavonols, Major nod Gene Inducers from Seeds of a Black-Seeded Common Bean (Phaseolus vulgaris L.) In Plant Physiology (Bethesda). , v.97, 751-758

318. **HUNGRIA, M.**; JOSEPH, C. M.; PHILLIPS, D. A.. 1991.
Rhizobium nod Gene Inducers Exuded Naturally from Roots of Common Bean (Phaseolus vulgaris L.) In Plant Physiology (Bethesda). , v.97, 759-764

319. BODDEY, L. H.; **HUNGRIA, M.**.. 1990.
Seleção de estirpes de Rhizobium para o feijoeiro. II. Senescência tardia dos nódulos In Turrialba. , v.40, 33-39

320. **HUNGRIA, M.**; RUSCHEL, A. P.. 1989.
Acetylene reduction, hydrogen evolution and nodule respiration in Phaseolus vulgaris In Biology and Fertility of Soils (Print). , v.7, 351-358

321. HUNGRIA, M.; NEVES, M. C. P.; DOBEREINER, J.. 1989.
Relative efficiency, ureide transport and harvest index in soybeans inoculated with isogenic HUP mutants of Bradyrhizobium japonicum In Biology and Fertility of Soils (Print). , v.7, 325-329

322. BARRADAS, C. A. A.; BODDEY, L. H.; **HUNGRIA, M.**. 1989.
Seleção de cultivares de feijão e estirpes de Rhizobium para nodulação precoce e senescência tardia dos nódulos. In Revista Brasileira de Ciências do Solo. , v.13, 169-179

323. BARRADAS, C. A. A.; **HUNGRIA, M.**. 1989.
Seleção de estirpes de Rhizobium para o feijoeiro. I. Precocidade para nodulação e fixação do nitrogênio In Turrialba. , v.39, 236-242

324. THOMAS, R. J.; **HUNGRIA, M.**. 1988.
Effect of potassium on nitrogen fixation, nitrogen transport, and nitrogen harvest index of bean In Journal of Plant Nutrition. , v.11, 175-188

325. HUNGRIA, M.; FRANCO, A. A.. 1988.
Nodule senescence in Phaseolus vulgaris In Tropical Agriculture. , v.65, 341-346

326. HUNGRIA, M.; RUSCHEL, A. P.. 1987.
Atividade da nitrogenase e evolução do hidrogênio pelos nódulos de Phaseolus vulgaris In Revista Brasileira de Ciência do Solo (Impresso). , v.11, 175-188

327. **HUNGRIA, M.**; NEVES, M. C. P.. 1987.
Cultivar and Rhizobium strain effect on nitrogen fixation and transport inPhaseolus vulgaris L. In Plant and Soil (Print). , v.103, 111-121

328. **HUNGRIA, M.**; THOMAS, R. J.. 1987.
Effects of cotyledons and nitrate on the nitrogen assimilation ofPhaseolus vulgaris In MIRCEN Journal. , v.3, 411-419

329. BODDEY, R. M.; PEREIRA, J. A. R.; **HUNGRIA, M.**; THOMAS, R. J.; NEVES, M. C. P.. 1987.
Methods for the study of nitrogen assimilation and transport in grain legumes In MIRCEN Journal. , v.3, 3-22

330. NEVES, M. C. P.; **HUNGRIA, M.**. 1987.
Partitioning of nitrogen from biological fixation and fertilizer in Phaseolus vulgaris In Physiologia plantarum (Kobenhavn. 1948). , v.69, 55-63

331. NEVES, M. C. P.; **HUNGRIA, M.**; SPRENT, J. I.. 1987.
The physiology of nitrogen fixation in tropical grain legumes In Critical Reviews in Plant Sciences. , v.6, 267-321

332. HUNGRIA, M.; NEVES, M. C. P.. 1986.
Efeito da manipulação de fotossintatos na fixação biológica do nitrogênio em feijoeiro In Pesquisa Agropecuária Brasileira. , v.21, 9-24

333. HUNGRIA, M.; THOMAS, R. J.; NEVES, M. C. P.. 1986.
Efeito do sombreamento na fixação biológica do nitrogênio em feijoeiro In Pesquisa Agropecuária Brasileira. , v.20, 1143-1156

334. HUNGRIA, M.; NEVES, M. C. P.. 1986.
Interação entre cultivares de Phaseolus vulgaris e estirpes de Rhizobium na fixação e transporte do nitrogênio In Pesquisa Agropecuária Brasileira. , v.21, 127-140

335. HUNGRIA, M.; NEVES, M. C. P.. 1986.
Ontogenia da fixação biológica do nitrogênio em Phaseolus vulgaris In Pesquisa Agropecuária Brasileira. , v.21, 715-730

336. HUNGRIA, M.; NEVES, M. C. P.; VICTORIA, R. L.. 1985.
Assimilação do nitrogênio pelo feijoeiro. I- Atividade da nitrogenase, da redutase do nitrato e transporte do nitrogênio na seiva do xilema In Revista Brasileira de Ciência do Solo. , v.9, 193-200

337. HUNGRIA, M.; NEVES, M. C. P.; VICTORIA, R. L.. 1985.
Assimilação do nitrogênio pelo feijoeiro. II - Absorção e translocação do N mineral e do N2 fixado In Revista Brasileira de Ciência do Solo. , v.9, 201-209

338. MASTROCOLA, M. A.; **HUNGRIA, M.**. 1980.
Efeito da baixa temperatura na quebra de dormência de cinco leguminosas forrageiras. In Zootecnia. , v.17, 189-200

Presentations in Events

1. **HUNGRIA, M.***Biological nitrogen fixation with the soybean and common bean crops in the tropics*. 2007.
(Conference or lecture,Presentations in Events)

2. **HUNGRIA, M.***A importância da fixação biológica do nitrogênio na cultura da soja: uma história de sucesso na América do Sul*. 2006.
(Conference or lecture,Presentations in Events)

3. **HUNGRIA, M.***Biodiversity, genomics and proteomics of soil microorganisms in Brazil: An underground agribusiness treasure*. 2006.
(Conference or lecture,Presentations in Events)

4. **HUNGRIA, M.***Contribution of biological nitrogen fixation to the environmental and agricultural sustainability in Brazil: from grain yield to genes*. 2006.
(Conference or lecture,Presentations in Events)

5. **HUNGRIA, M.***Microbiologia do solo, rumos e rumores: biodiversidade x biotecnologia, bioprospecção x transgenia, riqueza genética x funcionalidade*. 2006.
(Conference or lecture,Presentations in Events)

6. **HUNGRIA, M.***Situação atual e perspectivas dos inoculantes microbianos no Brasil*. 2006.
(Conference or lecture,Presentations in Events)

7. **HUNGRIA, M.***A biologia do solo*. 2005.
(Conference or lecture,Presentations in Events)

8. **HUNGRIA, M.***Bioindicadores de qualidade do solo*. 2005.
(Conference or lecture,Presentations in Events)

9. **HUNGRIA, M.***Biotecnologia na agricultura: Transgênicos e não-transgênicos*. 2005.
(Conference or lecture,Presentations in Events)

10. **HUNGRIA, M.***Ecology of nitrogen-fixing organisms contributing to sustainable agriculture in tropical agroecosystems*. 2005.
(Conference or lecture,Presentations in Events)

11. **HUNGRIA, M.***Fixação biológica do N2 em sistemas agrícolas*. 2005.
(Conference or lecture,Presentations in Events)

12. **HUNGRIA, M.***Inoculation stories in Brazil*. 2005.
(Conference or lecture,Presentations in Events)

13. **HUNGRIA, M.***Plantio direto e índices de avaliação da qualidade do solo*. 2005.
(Conference or lecture,Presentations in Events)

14. **HUNGRIA, M.***Soybean: contrast between U.S. & Brazilian inoculation experiences*. 2005.
(Conference or lecture,Presentations in Events)

15. **HUNGRIA, M.***Contribuição da biota do solo no rendimento agrícola*. 2004.
(Conference or lecture,Presentations in Events)

16. **HUNGRIA, M.***Economical and environmental benefits of inoculation and biological nitrogen fixation with soybean: situation in South America*. 2004.
(Conference or lecture,Presentations in Events)

HUNGRIA, M.*O genoma de Chromobacterium violaceum*. 2004.

17. (Conference or lecture,Presentations in Events)

18. **HUNGRIA, M.***Participação do Laboratório de Biotecnologia do Solo da Embrapa Soja no projeto GENOPAR*. 2004.
(Conference or lecture,Presentations in Events)

19. **HUNGRIA, M.***Resultados de inoculação de milho e trigo com Azospirillum spp*. 2004.
(Conference or lecture,Presentations in Events)

20. **HUNGRIA, M.***Resultados de Reinoculação da soja e inoculação do feijoeiro*. 2004.
(Conference or lecture,Presentations in Events)

Inovação

Projects

Projetos de pesquisa

2017 - Current INCT - Plant-Growth Promoting Microorganisms for Agricultural Sustainability and Environmental Responsibility

Description: There is a strong global demand for more quantitative food production and increased quality, but a new approach is necessary. As important as producing more, it is necessary to consider agricultural sustainability, to enhance the recovery of degraded areas, to lower emissions of greenhouse gases (GHGs) and avoid pollution of the soil and water by agrochemicals, thus optimizing the rational use of inputs. Although fundamental to productivity, chemical fertilizers have high cost, being imported and of low use efficiency by most crops. In this context, microorganisms which promote the growth of plants (PGPM – plant-growth promoting microorganisms) which includes any microorganism that stimulates plant growth, independent of the mechanism of action. These include nitrogen-fixing bacteria, producers of plant-growth regulators, microbes that solubilize potassic and phosphate rocks as well as facilitators of nutrient absorption, such as mycorrhizal fungi are crucial for agricultural sustainability, opening opportunities for what can be defined as a true "green microrevolution" with impact on productivity, but with environmental responsibility. This INCT was proposed with the mission to "conduct basic research and biotechnology development, to train personnel and transfer knowledge, products and technologies for public and private sectors, aiming to increase the use of PGPMs, microbial processes and biomolecules in Brazilian agriculture, maximizing plant nutrition and crop yields with lower inputs of chemical fertilizers and diminished environmental impact." For this, in this first phase of the project 27 specific objectives were outlined, related to 60 goals. The activities included in the basic science component will generate new knowledge on taxonomy, phylogeny, physiology, ecology, structural genomics, proteomics, transcriptomics and metabolomics with PGPM and in-plant associations with PGPM. A second strand is the development of biotechnological products, and molecules related to PGPM technologies with various biotechnological innovations as well as in crop improvement with PGPM-plant associations. New technologies, such as the application of microorganisms, ideal agronomic practices for each crop and the recovery of degraded pastures will be studied and validated. Another strong aspect of this INCT comprises activities related to the environment, with research lines on the quantification of the contribution of biological nitrogen fixation and GHG emissions in comparison to the use of chemical fertilizers, generating information to support the ABC (Low Carbon Agriculture) Plan of the Brazilian government. In addition, this information will allow the use of PGPMs for Clean Development Mechanisms (CDM) and ecosystem services. On the environmental side the use of microbial biomarkers for monitoring soil quality is proposed, with scientific, social and public policy implications.
Status: In progress Category: Projetos de pesquisa
Members: Mariangela Hungria da Cunha (Responsable); ; Funding Institution: Conselho Nacional de Desenvolvimento Científico e Tecnológico-CNPq, Coordenação de Aperfeiçoamento de Pessoal de Nível Superior-CAPES, Fundação Araucária-FUNDAÇÃO ARAUCÁR

Citations

Web of Science

Number of articles: 287 **Total of citations**: 9533 **Factor H**: 54

HUNGRIA M*

SCOPUS

Number of articles: 303 **Total of citations**: 10381

Hungria, M*

Outras

Number of articles: 600 **Total of citations**: 22852

h=83, i10=305

Total of Production

Bibliographic Production

Articles published in scientific journal	338
Books published	4
Books published	2
Books published	1
Chapters published	66
Organization of work published	3
Article in newspaper	20
Article in magazine	25
Articles published in annals of events	668
Presentations in Events (Conference or lecture)	20
Other bibliographic productions	106

Techinical Production

Technological Product (other)	21

Process or Technique (analytical)	5
Process or Technique (instrumental)	1
Process or Technique (procedural)	9
Process or Technique (other)	9
Technical Works (assessorship)	5
Technical Works (consulting)	8
Technical Works (opinion document)	15
Short Term Course Taught (other)	1
Development of teaching material	4
Radio or TV Show (interview)	3
Other technical production	2

Patentes e Registros

Patente	2
Programa de computador registrado	1

Academic Advisories

Academic Advisory - concluded (Master´s thesis - secondary advisor)	10
Academic Advisory - concluded (Master´s thesis - primary advisor)	45
Academic Advisory - concluded (Ph.D. thesis - secondary advisor)	12
Academic Advisory - concluded (Ph.D. thesis - primary advisor)	18
Academic Advisory - concluded (Improvement/Specialization Courses Monography)	1
Academic Advisory - concluded (Improvement/Specialization Courses Monography)	5
Academic Advisory - concluded (Course Conclusion Paper - primary advisor)	2
Academic Advisory - concluded (scientific initiation)	17
Academic Advisory - concluded (scientific initiation)	16
Academic Advisory - concluded (postdoctorate supervision)	23
Academic Advisory - concluded (other kinds - primary advisor)	9
Academic Advisory - concluded (other kinds)	66

Events

Participation in events (congress)	47
Participation in events (seminar)	1
Participation in events (symposium)	19
Participation in events (meeting)	6
Participation in events (other)	56
Event Production (congress)	3
Event Production (other)	13
Participation in graduate boards (Master´s)	12
Participation in graduate boards (Doctorate)	5
Participation in judging commission boards (professor)	1

Other relevant publications

Other relevant works	90

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