



## PROFILE OF THE PARTICIPANTS

### BRAZILIAN DELEGATION



#### Alexandre Lima Nepomuceno (Embrapa)

Agronomist Engineer graduated by Federal University of Rio Grande do Sul in 1987, obtained a Master degree in Plant Physiology by the same university in 1989. Ph.D. in Molecular Biology and Plant Physiology by the University of Arkansas, US in 1998. Fellow visiting scientist at the Japan International Research Center for Agricultural Sciences (JIRCAS), Tsukuba, Japão, in 2000 and 2004. Researcher (PI) at the Brazilian Agricultural Research Corporation (Embrapa) since 1990. Professor of Genetics and Molecular Biology for graduation students (MSc and PhD) at Londrina State University (since 1999), and at Maringa State University (since 2012). Member of the Brazilian Biosafety Commission (CTNBio) from 2001 to 2011. In September 2014 was indicated again as a CTNBio member by the Brazilian Ministry of Agriculture in the position of Biotechnology Specialist (2014-2020). In 2010, after a national selective process, was approved by the Ministry of Agriculture, as Brazil's Agriculture Attaché in Washington, US. However, did not assumed the position, since from September 2011 to September 2013, assumed the coordination of Embrapa's virtual laboratory overseas (LABEX) in Plant Biotechnology at the ARS/USDA Plant Gene Expression Center, Albany, California, USA. In administration positions is member of Embrapa's Commission for Research Program Definition (2014-2018), member of Embrapa's Commission for Research Capacitation in Brazil and Overseas (2014-2018), and Head of Embrapa's Portfolio of Genetic Engineering Projects for Agribusiness (2015-2019). Represented Embrapa in many international meetings such as: in China, Japan, US, France, Germany, Argentina, Uruguay, Irã, Cyprus, among others. The main fields of expertise in Plant Biotechnology are: gene prospection and expression analysis, genome editing, plant physiology, development of GM plants for abiotic stress tolerance, and biosafety of GMOs.



#### Alisson Carraro Borges

Alisson Carraro Borges is associate professor at the Federal University of Viçosa (UFV). He was postdoc fellow at University College London (UCL) in 2012. Currently, he coordinates the Environmental Quality Laboratory, advising 8 graduated students. He has advised 6 finished PhD tesis and published 60 peer-reviewed papers with 300 citations (Scopus). The main topics of interest are water quality modeling, water treatment, phytoremediation, anaerobic digestion and agricultural wastewater reclamation.



#### Daniela Matias de Carvalho Bittencourt (Embrapa)

She holds a degree in Veterinary Medicine from the Federal University of Uberlândia (2001). In 2004 she obtained her Master's Degree and in 2007 her PhD (D.Sc), both in Molecular Biology at the University of Brasília (Brasil). During her PhD she has also worked at the University of Wyoming (USA) at the Laboratory of Molecular Biology. In 2007 she became a researcher at the Brazilian Agricultural Research Corporation (Embrapa), working at Embrapa Acre (Rio Branco/AC) and Embrapa Amazônia Ocidental (Manaus/AM) units, where she remained until 2014. During this period (2011) she was a postdoc fellow at Center de Coopération Internationale in Recherche Agronomique pour le Développement (Cirad, Montpellier/France), collaborating at the Oil Palm Genome Project (OPGP). In 2014, she joined the Embrapa Headquarters Research and Development Secretariat (Brasília/DF), where she acted as Technical Coordinator of the research

projects portfolio for small farmers and traditional communities and as Supervisor of National Networks of R&D. Since June 2018, she became a researcher at Embrapa Genetic Resources and Biotechnology (Cenargen, Brasília/DF), in the Synthetic Biology Laboratory and collaborator of the National Institute of Science and Technology in Synthetic Biology (INCT SynBio), where she develops researches in the area of genetic engineering focusing on genome editing and the development of biomaterials based on recombinant spider silk proteins from the Brazilian biodiversity. Currently, she is a member of the Advisory Board from the Research Support Foundation of Federal District (FAP-DF).



**Eduardo Seiti Gomide Mizubuti**

Eduardo S. G. Mizubuti, Agronomist (1989) and M.Sc. in Plant Pathology (1991) both degrees from the Universidade Federal de Viçosa (UFV) (Federal University of Viçosa) and Ph. D. in Plant Pathology (1998) from the Cornell University (USA). Full professor of the Department of Plant Pathology of the UFV. Dean of Research and Graduate Studies of the UFV from 2011 to 2015. Current President of the Brazilian Society of Plant Pathology (Sociedade Brasileira de Fitopatologia). His research areas are: Molecular Epidemiology of Plant Diseases; Population Genetics and Evolution of Plant Pathogen Populations; and Plant Disease Management Using Nanotechnology and Metagenomic approaches.



**Elibio Rech Filho** (Embrapa/Brazilian Academy of Sciences)

Elibio Rech, a molecular engineer, Researcher at EMBRAPA and Director of the National Institute of Science and Technology on Synthetic Biology, developed gene transfer technologies utilized to produce commercial transgenic plant products. Aim to contribute for design, engineer and develop genomes, genetic circuits, plant artificial chromosomes, within the synergies and intersections of the recombinant DNA technology and sustainable use of biodiversity.



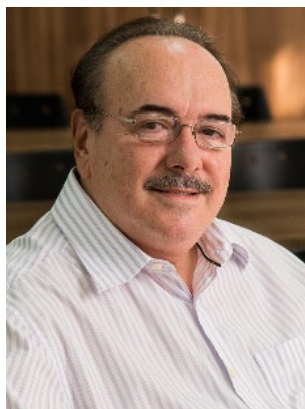
**Eliseu José Guedes Pereira**

Eliseu Pereira is an agricultural scientist with expertise in insect pest management in field crops. His recent focus has been on transgenic maize hybrids that express insecticidal toxins from *Bacillus thuringiensis* (Bt) and their interactions with target and non-target insects in agriculture. His team is currently attempting to increase biological data resources on important insect-pests that are targeted by transgenic Bt maize through laboratory selection experiments for resistance. Their long-term goal is to develop the resources for identifying changes in gene expression associated with plant-expressed, anti-herbivore factors. They believe that this work will provide a gateway for improved use of resistance in crop plants, for quantifying the effect of insect resistance genes on reproductive fitness and ultimately, for improving our understanding for proper deployment of host-plant resistance to herbivorous insects.



**Elizabeth Fontes** (Federal University of Viçosa/Brazilian Academy of Sciences)

BS and MS degree from UFV/Brazil, Ph.D. degree in Plant Molecular Genetics from North Carolina State University, NCSU, USA. Post-doctor fellow in 1991 and Scientific Consultant in 1992 from the Department of Biochemistry, NCSU, USA and sabbatical leave twice in the Salk Institute of Biological Sciences, California, USA in 2003-2004 and 2011-2013, exploiting the field of Cell Signaling and Functional Genomics. Currently, she is a full professor from the Biochemistry and Molecular Biology Department at UFV, a member of the Agricultural Science Advisor Committee of Fapemig Coordinator of the National Institute of Science and Technology in Plant-Pest Interactions and a recipient of a senior fellowship from CNPq, level 1A. The primary research interest is on plant defense signaling pathways against geminivirus infection, water deficit, and endoplasmic reticulum stress. Her research team has focused primarily on the plant immune system and on the complex molecular network of plant adaptive responses, which integrates the ER-unfolded protein response with the osmotic and cell death signals. Their research in the elucidation of molecular determinants of geminivirus-host interactions has led to the identification of a novel layer of innate plant defense, as a target for engineering resistance against geminivirus. They have also modulated cell death pathways for drought tolerance.



**Evaldo Vilela** (Federal University of Viçosa/Brazilian Academy of Sciences)

Graduated in Agronomy at Viçosa Federal University (UFV). Holds a Master's Degree in Entomology from the University of São Paulo (USP) and a Ph.D. in Ecology from the University of Southampton, UK. Has concluded postdoctoral studies at the Universities of Berkeley, Nuremberg-Erlangen and Tsukuba. He is a 1A Researcher as defined by the CNPq, with over a hundred cited papers. He has worked as the President of the Brazilian Entomology Society and of the Brazilian Society for Agricultural and Livestock Defense. He is a Full Member of the ABC and was a member of CTNBio in the MCTIC. He has participated in Advisory Boards for CNPq, CAPES and FINEP and has been a member of the CT-Agro. He is a member of the SBPC, the SEED Program, created by the Minas Gerais State Government, and the Administrative Boards of both BH-TEC and SEBRAE Minas. He has been the Director of Funarbe in support of UFV (1994-1999) and Rector of this University (2000-2004). He is an integral participant in the Post-Graduate Program in Entomology at UFV and has coordinated the INOVADEFESA Project, funded by CNPq and MCTIC, as well as the INOVAMINAS Project, funded by FINEP. He is a key part of the DataViva platform, created through a partnership between the Minas Gerais State Government and the MIT Media Lab. He has been the Assistant Secretary at SECTES (2007-2014) and Director of Science, Technology and Innovation at FAPEMIG (2014), where, at present, he holds the title of President.



**Flavio Barbosa Justino** (Federal University of Viçosa)

Flavio Justino holds a Bachelor's degree in meteorology from the Federal University of Paraíba (1996), masters in Oceanography (physical oceanography) from the University of São Paulo (2000), Doctorate in meteorology by the Leibniz-Institute of Marine Research (2004) in Germany and PhD atmospheric sciences from the University of Toronto in Canada. In 2015 was at the Ohio State University in a sabbatical leave. He has experience in the field of Geosciences, emphasis in meteorology, working mainly on the following themes: Ocean-atmosphere interaction, Cryosphere and Ocean Circulation and Climate Changes (past, present and future), agricultural aspects and food security related to climate. In 2002, won the award for best work as junior scientist from Helmholtz's Foundation in Germany. He is part of the program Pesquisador Mineiro (PPM). He was awarded the title of research associate at the Center for theoretical physics of Trieste in Italy (ICTP/UNESCO). He a Brazilian Government representative on the Committee of agriculture and climate change, the World Meteorological Organization.



**Francisco Murilo Zerbini** (Federal University of Viçosa)

Agronomist (1988) and M.Sc. (1991) in Plant Pathology at the Federal University of Viçosa (UFV), Ph.D. in Plant Pathology, with emphasis in Plant Molecular Virology, at the University of California, Davis (1996). Full Professor at the Department of Plant Pathology at UFV. The main areas of research interest are the genetic diversity and molecular evolution of geminiviruses and the study of the geminivirus-host interaction. In addition to research activities, works in undergraduate and postgraduate education and provides diagnostic services for plant viruses through the Plant Diseases Clinic of the Dep. of Plant Pathology. Senior editor of Tropical Plant Pathology journal (editor-in-chief from 2012 to 2017) and associate editor of the journals Archives of Virology, Annals of Applied Biology, Plant Pathology and Virology. Member of the Executive Committee of the International Committee on Virus Taxonomy (ICTV), and of the ICTV Geminiviridae and Potyviridae Study Groups.



**Giampaolo Queiroz Pellegrino** (Embrapa)

Graduated in Forest Engineer (1991), specialization in Nuclear Energy in Agriculture (1989) and Masters in Agronomy - Agricultural Environmental Physics (1995) by the University of São Paulo. Ph.D. in Agricultural Engineering - Soil and Water (2001) by the State University of Campinas (2001). PostDoctorate on Hydrological Modeling at Lawrence Berkeley Lab, Univ. California (2001). From 1993 to 2000 worked as a researcher at the Center for Agrometeorological Research of the State University of Campinas. From 2001 to 2006 worked as a consultant to private and public sector. Since late 2006, acts as a Researcher on Climate Change at Embrapa, the Brazilian Agricultural Research Corporation, at its Agricultural Informatics Center, where was Deputy Director for Research and Development, from 2015 to 2018. Since 2009 has been President of the committee of the Embrapa's portfolio on climate change and leader of nationwide network project on Simulation of Future Agricultural Scenarios based on Regional Climate Change Projection and of other network subprojects on Hydrological Tendencies and Forest C balance modeling. Has experience on agrometeorology, climate change impacts on agriculture and forests, trend analysis, environmental modeling, scenario simulation, watershed and water resources, GIS and remote sensing.





**Grácia Rosinha** (Embrapa)

PhD in Biochemistry and Immunology from the Federal University of Minas Gerais and postdoctoral degree in Biochemistry and Molecular Biology at the same University. She is currently Researcher at Embrapa Gado de Corte, with experience in Biochemistry, with emphasis in Molecular Biology, working mainly on the following topics: development of genetically modified vaccines and recombinant vaccines against brucellosis (*Brucella abortus*), caseous lymphadenitis (*Corynebacterium pseudotuberculosis*), and *Anaplasma marginale*. Advisor in the Post-Graduate Program in Biotechnology and Biodiversity - Goiás of the Mid-West Postgraduate Network.



**Guilherme Lopes** (Federal University of Lavras)

Guilherme Lopes is Agronomist with Master in Soil Science at Federal University of Lavras (2010) and Ph.D. in Soil Science at Federal University of Lavras conducting part of the research at University of Delaware (Environmental soil chemistry group supervised by professor Donald Lewis Sparks), United States (2013). Currently, Guilherme Lopes is professor of soil fertility and soil chemistry at Soil Science Department at Federal University of Lavras. In the research, he acts as coordinator of research projects funded by CNPq (National Council for Scientific and Technological Development) and FAPEMIG (Minas Gerais State Research Foundation), supervising undergraduate, master and Ph.D students. His current researches are focused on enrichment of agricultural crops with essential elements for human and animal health, with emphasis in selenium, which is not considered an essential element for plants. Therefore, its research aims is to contribute for functional agriculture, producing foods with adequate amounts of essential elements through mainly biofortification studies.



**José Francismar de Medeiros** (Federal University of the Semi-Arid Region)

José Francismar de Medeiros has a degree in Agronomy from the Higher School of Agriculture of Mossoró (1985), a master's degree in Agricultural Engineering from the Federal University of Paraíba (1992) and a PhD in Agronomy from the University of São Paulo (1998). He is currently an agronomist at the Federal Rural Semi-Arid University, Researcher I-A at CNPq, a permanent professor at the Postgraduate Program in Plant Science and the Postgraduate Program in Water Soil Management, both from UFRSA, where he is currently also a member of the Collegiate of the latter Program, and leader of the Research Group "Management of water and soil in irrigated agriculture". He was a member of the Management Committee and Coordinator of the Research Line "Practices of Management and control of salinity in the soil, water and plant system", from the National Institute of Science and Technology in Salinity (INCTSal) of CNPq, between 2009 and 2017. Currently INCTSal has the seal of the CNPq and he continues in the Management Committee and he is now coordinator of the Line of Action III (Conviviality, management and control of salinity). He was a member of the Agricultural Engineering of CNPq between 2010 and 2013. He has experience in the field of Agricultural Engineering, with emphasis on Irrigation and Drainage, working mainly on the following topics: Cultivation of melon, watermelon, sorghum among others, salinity, fertigation and irrigation management. He works as a consultant in these areas and is a rural producer. He has published 208 papers in scientific journals, 5 books and 21 book chapters, and 310 papers in annals of scientific events. He was coordinator or team member of 46 national and international research projects.



**Lineu Neiva Rodrigues** (Embrapa)

Senior Researcher and International Partnerships Coordinator of Embrapa Cerrados, Brazil. Dr. Rodrigues has a PhD in Agricultural Engineering from Federal University of Viçosa, Brazil with focus on irrigation, water management and hydrology. He held a Post Doctorate position in Water Management and Irrigation Engineering at University of Nebraska-Lincoln. Worked as consultant to the Organization of American States (OAS) and was Visiting Researcher at the University of California-USA, Davis, in the Department of Land, Air and Water Resources Studies, where he developed work on irrigation hydrology modeling. He was a member of the Technical Chamber of Project Analysis and Brazilian member in the Platform of Water Resources and Irrigation Technology of the Cooperative Program for the Development of Agricultural Technology in the Southern Cone (PROCISUR). He is associate professor of the graduate program of the agricultural engineering department of Federal University of Viçosa and Agronomy faculty of UNESP. He is the

Brazilian Association of Agricultural Engineering director of public policy, member of the Embrapa Project Portfolio for Irrigated Agriculture and Climate Change. He is a full member of the National Council of Water Resources (CNRH) and president of the Technical Chamber of Science and Technology. He acts as scientific consultant for several research fund agencies and scientific journals. He coordinates the CNPq research group entitled Agrohidro Network.



**Luis Henrique Bassoi** (Embrapa)

Agronomist (College of Agricultural Science, University of São Paulo, 1985). Master in Agronomy / Irrigation and Drainage (College of Agricultural Science / São Paulo State University - 1990). Doctor of Science (University of São Paulo - 1994). Post-Doctorate (University of California, Davis, USA - 2000). From December 1994 and April 2015, he worked as a researcher at Embrapa Semiárid in Petrolina, state of Pernambuco, Northeastern Brazil. As of May 2015, he moved to Embrapa Instrumentation, in São Carlos, state of São Paulo, Southeastern Brazil. His main research interests are: soil physics, irrigation management, fertirrigation, water use in agriculture and precision agriculture. He is member of the faculty and master and doctoral advisor of the Graduate Program in Agronomy (Irrigation and Drainage) of the College of Agricultural Sciences, São Paulo State University (Botucatu campus).



**Marcos Cortesão Barnsley Scheuenstuhl** (Brazilian Academy of Sciences)

Marcos Cortesão Barnsley Scheuenstuhl is an economist graduated in 1988 from the State University of Rio de Janeiro. He obtained his Master's degree at the same university and later went to the Federal University of Rio de Janeiro to develop a PhD. For many years, he worked at the State University of Rio de Janeiro, where he focused on Higher Education Policies and Funding of Higher Education in Latin America. He also worked for the Inter-Union Department for Socioeconomic Studies and Statistics, where he developed studies on the Brazilian national financial system. Throughout his career he has dedicated much attention to institutional capacity building and networking. In 2000, he was invited to help organize the Office of International Affairs of the Brazilian Academy of Sciences. He initially took responsibility over the Americas, playing a role in the structuring of the InterAmerican Network of Academies of Sciences (IANAS), where he served as Executive Director since the establishment of the network until 2010. He also served as Program Director of the Water Program of the InterAcademy Partnership on International Issues (IAP). For the last ten years he has been responsible for coordinating the interaction between the Academy and major international scientific organizations. Currently, he is the Executive Director of International Affairs of the Academy. He also plays an active role in the coordination of several national programs and initiatives, most of these in the areas of Science Policy, Natural Resources, Health, Science Education, and Environmental Issues.



**Maria Fátima Grossi de Sá** (Embrapa/Brazilian Academy of Sciences)

BS and Master degree from Brazilian University of Brasília-Brasília/Brazil and the Ph.D. degree in Molecular Biology from University Paris VII- France. Currently, she is a scientific researcher Leader of Plant-Pests Molecular Interaction Group at EMBRAPA Genetic Resources and Biotechnology and professor at the Catholic University of Brasília, Brasília-DF, Brazil. She is a full member of the Brazilian Academy of Sciences (Inducted in 2011) and full member of the World Academy of Science -TWAS (Inducted in 2014). She served two terms (2008-2013 and 2016-now) as President of the Brazilian Society of Biotechnology. Among other awards/honors, she received the Scopus Award 2010 (Elsevier/Capes) and The National Order of Scientific Merit of the Brazilian Republic Government-2018. Has experience in molecular biology area, with emphasis on plant biotechnology. Her primary research interest is plant-pests molecular interaction focused on phytonematodes and insect pests, and the development of GM plants for tolerance/resistance to biotic stress and abiotic stress.





**Mario Luiz Chizzotti** (Federal University of Viçosa)

Holds a BS in Animal Science from the Universidade Federal de Viçosa (UFV, 2002), a master's degree in Animal Science (UFV, 2004) and a PhD in Animal Science (UFV, 2007), with sandwich training at Texas A&M University-USA. Was a postdoc in ruminant production (UFV, 2007-2008) and Meat Science at Iowa State University, Ames, USA (2017-2018). He was Professor at Universidade Federal de Lavras and Universidade Federal do Vale do São Francisco. He is currently Adjunct Professor at UFV, in the area of Livestock Production Chain, with emphasis on Meat Quality, Growth Physiology and Precision Livestock Farming, Coordinator of disciplines "Productive Chain of Meat" and "Physiology of Animal Growth and Meat Quality". He is currently Head of Department of Animal Science of UFV and was chairman of the Research Committee of the Animal Science Department UFV (from 2015 to 2017) and coordinator of the ethics committee on the use of animals in experimentation (from 2013 to 2017). He is a member of INCT –CA (National Institute of Science and Technology of Animal Science), Leader of the Meat Science Laboratory and CNPq Researcher Level 1-A, working in the research lines of Bioenergetics and Nutritional requirements, Growth physiology, Meat science and Precision Livestock Farming.



**Paulo Arruda** (State University of Campinas/Brazilian Academy of Sciences)

Paulo Arruda is Professor of the Department of Genetics at the Institute of Biology, State University of Campinas. He received his Ph.D. in Genetics from the State University of Campinas and has pioneered the area of plant molecular biology and plant genomics in Brazil. His research interests are directed towards understanding the regulation of gene expression and its impact on amino acid metabolism and stress response. Professor Arruda is a member of the Brazilian Academy of Sciences, The World Academy of Science (TWAS) and The National Order of Scientific Merit of the Brazilian Republic Government. He has received Scientific and Technological Merit Award from the Government of State of São Paulo, Brazil for the sequencing of the complete genome of the plant pathogenic bacteria *Xylella fastidiosa*. Professor Arruda was co-founder and Scientific Director of the plant biotechnology company Alellyx Applied Genomics. Currently, he is heading, in partnership with Structural Genomics Consortium (SGC) the creation of the Kinase Chemical Biology Center for Drug Discovery through open-access research and the Embrapa/UNICAMP joint Institute of Genomics for Climate Change.



**Paulo Henrique Duarte Cançado** (Embrapa)

Veterinary Doctor at Federal University Rural of Rio de Janeiro (2002), Master in Sciences Post-graduation in Veterinary Science / UFRRJ (2004). Winner of the "Uriel Franco Rocha" award of Brazilian College of Veterinary Parasitology in 2006. In 2008, he received the title of Doctor of Science from UFRRJ. He has experience in the areas of parasitology and parasitic diseases, with emphasis ectoparasites of Cattle. During his research he has interacted with over 70 researches in scientific publications and conference papers. He was professor and Animal Hospital's director from 2008 to 2010. Collaborates as coordinator of the Global Network for animal disease research (STAR-IDAZ - <http://www.star-idaz.net/>) and networks of innovation centers for inputs in animal nutrition and health (RCIISNA - MCT - FINEP). He is currently a researcher at Embrapa Beef Cattle working in the area of Animal Health - Parasitology. More recently, He has become focal point of Embrapa's animal health research portfolio. The major points are: Control and preventive for ectoparasites; ticks and flies.



**Ricardo Augusto Dante** (Embrapa)

Ricardo A. Dante is a Research Scientist at the Brazilian Agricultural Research Corporation (Embrapa) and a founding member and Co-PI at the Genomics for Climate Change Research Center (GCCRC), a joint initiative by Embrapa, the University of Campinas (Unicamp) and the São Paulo Research Foundation (Fapesp). The GCCRC gathers multidisciplinary expertise around an agricultural biotechnology pipeline aiming adaptation of crops to abiotic stresses associated with global climate change. Dr. Dante has expertise in the fields of Plant Molecular Biology and Genomics with a focus on plant growth, development and stress tolerance. From 2005 to 2010, he was a Research Scientist at Alellyx Applied Genomics (acquired by the Monsanto Company in 2008) in its sugarcane biotechnology program that aimed the generation of genetically modified varieties with higher accumulation of biomass and sucrose, tolerance to drought and resistance to herbicide and insect pests. Dr. Dante received a Ph.D. degree in Plant Science (Molecular Biology and Genetics, 2005) from the University of Arizona (Tucson, USA), where he investigated genetic

and molecular aspects of cell cycle control during maize endosperm development. He holds M.S. (Genetics, 1997) and B.S. (Biological Sciences, 1993) degrees from Unicamp. Dr. Dante was a recipient of a Young Scientist Award from the National Council for Scientific and Technological Development (CNPq).



**Ricardo Inamasu** (Embrapa)

Has a degree (1984), a master's degree (1987) and a doctorate (1995) in Mechanical Engineering at the University of São Paulo. Visitor scientist at Biological Systems Engineering at the University of Nebraska - Lincoln (2002). He is currently a contributing professor at the University of São Paulo and is a researcher at Embrapa Instrumentation. He has experience in Mechanical Engineering and Mechatronics, with emphasis on Instrumentation and Agricultural Automation, working mainly in the following subjects: Instrumentation for Precision Agriculture, Agricultural Robotics, High Resolution Sensing and Electronics at Agricultural Machines. He is coordinating Embrapa's Precision Agriculture research network.



**Rose Gomes Monnerat Solon De Pontes** (Embrapa)

Bachelor's degree in Biological Sciences from the University of Brasilia (1984), PhD in Insect Pathology at École Nationale Agronomique de Montpellier (1995) and postdoctoral degree from Cardiff University (2011). Researcher at Embrapa Genetic Resources and Biotechnology one of the units of the Brazilian Agricultural Research Corporation (EMBRAPA) since 1989, where she is the president of the Embrapa Biological Control Portfolio. She is also an associate professor of postgraduate studies in Agronomy at the University of Brasilia and a member of the Superior Council of the Research Support Foundation of the Federal District. She has an experience in Microbiology, with emphasis on Bacteriology, working mainly on the following topics: biological control, biological products based on *Bacillus thuringiensis* and *Bacillus sphaericus* that originated products for controlling many insect pests and vector diseases.



**Tiago Collares** (Federal University of Pelotas/Brazilian Academy of Sciences)

Tiago Collares is Biologist and Veterinarian. He holds a Masters and a Doctorate in Biotechnology from the Federal University of Pelotas. At a post-doctorate level he carried out research in comparative genome and genome modeling to develop an animal model for cancer studies (Oncopigs) at the University of Illinois (USA). Affiliate Member in Biomedical Science of the Brazilian Academy of Sciences (ABC). He has been an associated professor at the Federal University of Pelotas since 2008 where is a permanent professor at the Biotechnology graduate program. Nowadays, Tiago is the director for the Technology Development Center. He has a scholarship in technology development productivity 1C in the Biotechnology area. He is PI of the Laboratory of Cancer Biotechnology; leader of the multidisciplinary research group in cellular and molecular oncology; and of the transgenes and molecular embryology group. He has cooperation with consolidated research groups from American universities (University of Illinois and University of Missouri). In the last few years, he has produced around 90 scientific articles published in international journals, H index 15 on SCOPUS data, 6 books and 13 chapters and 33 patents. He has approved grants to research and technological development. He has supervised and co-supervised around 19 masters thesis and 12 PhD dissertations in Biotechnology. He supervised a PhD dissertation, which received the Capes award for dissertation of the year in 2012 in the Biotechnology area. He is a founder member of Sulbiotec (Biotechnology Network in the South of Brazil). He is also a researcher for the INCT NANOfarma – CNPq.



**Vitor Vieira** (Brazilian Academy of Sciences)

Vitor Vieira holds a Bachelor's degree in International Relations from the Federal University of Rio de Janeiro (UFRJ). He was an intern at the Brazilian Academy of Sciences (2012-2014), Project Assistant at the National Academy of Medicine of Brazil (2014-2016), and since March 2017 he is back to the Brazilian Academy of Sciences, where he works as Project Assistant in the areas of International Cooperation and National Strategic Projects. In the international scenario, he has been actively engaged in the organization of major scientific meetings, such as the 2013 Conference and General Assembly of the Global Network of Science Academies – IAP (February, 2013); the World Science Forum (November, 2013); the IV General Assembly of the InterAmerican Network of Academies of Sciences – IANAS (May, 2016); and the International Workshop on Early Intervention and Diagnosis in Paediatric Neurodevelopment Defects (November, 2017). He is also involved in the coordination of several national programs and initiatives.



## CHINESE DELEGATION



**Aimin Zhang** (Institute of Genetics and Developmental Biology-CAS)

Aimin Zhang got his PhD on plant genetics and breeding from China Agricultural University, in 1989. Lecture, Associated professor, Professor at China Agricultural University (1984-2000). Since 2001, Principal Investigator of the state key laboratory of plant cell and chromosome engineering, Institute of Genetics and Developmental Biology, CAS. Zhang is working on wheat molecular breeding, mainly focus on understanding the molecular biological basis of yield and quality in wheat by genomics knowledge and technology, cloning the functional genes, developing molecular markers, creating new breeding germplasm and developing high-yield and high-quality new cultivars. Zhang is associate editor in chief of Chinese Journal: Acta Agronomica Sinica and Member of editorial Board of international Journals: Theor Appl Genet, PLoS ONE and The Crop Journal. Vice president of Chinese Crop Science Society and Chinese Plant Biotechnology Society.



**Fan Chen** (Institute of Genetics and Developmental Biology-CAS)

Fan Chen began to work on the plant protein chemistry in Wuhan Institute of Botany, CAS after graduated from Wuhan University with a B.Sc in Biochemistry. He was given the Ph.D by United Graduate School, Ehime University, Japan in 1997 and engaged by Faculty of Agriculture, Kagawa University, Japan as a foreign scientist. During 2000-2001, he worked on plant molecular biology in National Institute of Agrobiological Sciences, Japan as a STA fellow. He became a senior researcher at Institute of Genetics and Developmental Biology, CAS from 2001 after he returned China. Fan Chen's laboratory mainly focuses on plant molecular response and control mechanism. The signal transduction and complex regulation network during plant development and morphogenesis are concerned.



**Hongqing Ling** (Institute of Genetics and Developmental Biology-CAS)

B.S., agronomy (1982), Department of Agronomy at the Sichuan Agricultural University, China; Dipl.-Ing. agr. (1988), Department of agricultural sciences at the Christian-Albrechts-University of Kiel, Germany; Ph.D. natural science (1993), Department of Mathematics and Natural Science of the Christian-Albrechts University of Kiel, Germany; Postdoctoral fellow (1993-1998), Leibniz Institute of Plant Genetics and Crop Plant Research (IPK-Gatersleben), Germany; Senior scientist (1998-2001), Institute of Plant Biology, University of Zurich, Switzerland. Since 2001, he has been working as professor in Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China. The research directions in his lab are wheat genome analysis and molecular biology of plant nutrition. His research works mainly focus on wheat A genome sequencing, evolution and comparative analysis, and on studying the molecular mechanisms of iron and phosphate uptake and metabolism in plants.



**Hui Sun** (Chinese Academy of Sciences)

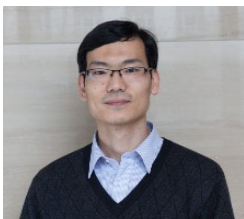
Hui Sun has been Director, Division of American and Oceanian Programs, Bureau of International Cooperation, Chinese Academy of Sciences (CAS) since 2014. His major responsibility is to coordinate and facilitate the collaborative activities between CAS and its counterparts in the continents of North America, South America and Oceania. Prior to this, Sun has worked as Deputy Director, Program Officer of various divisions at CAS Bureau of International Cooperation. He was once posted as Third Secretary at the Science and Technology Office of the Chinese Embassy in Washington DC between 2003 and 2006, where he has done S&T Policy studies about the United States, and coordinated the China-US collaborations under the Protocol of Cooperation on Basic Sciences, among others. Sun obtained his Master's Degree of International Policy from the George Washington University in 2007 and B.A from Anhui University in 1998. He has rich experience in international program management, and his research interests include international S&T policy and international cooperation strategy.





**Jinsong Zhang** (Institute of Genetics and Developmental Biology-CAS)

Jin-Song Zhang got his PhD from Peking University, Beijing, China, in 1991. From 1991 to 1994, he worked in IGDB, CAS. From 1994 to 1997, he did his postdoctoral research in Kansas State University. From 1997 to 2005, he was an associate professor, and from 2006, he is a professor at the IGDB, CAS. In 2009, he was funded by National Natural Science Foundation of China for Outstanding Young Scholar Project. His laboratory is mainly focused on studies in regulation of oil accumulation, seed-related traits and stress tolerance in soybean, and ethylene signaling in rice. He has identified GmZF351 as a master regulator of oil accumulation and PP2C-1 for seed weight control, and discovered novel components MHZ3 and MHZ2/SOR1 in ethylene signaling of rice through screening and analysis of a set of rice ethylene-response mutants maohuzi (mhz). He has published more than 100 peer-reviewed papers and got more than 30 authorized patents for genes involved in oil accumulation, stress tolerance and other agronomic traits.



**Lei Qi** (Institute of Genetics and Developmental Biology-CAS)

Lei Qi got his M.S. Degree from Tsinghua University, Beijing, China, in 2007. He joined IGDB after his graduation to be the international liaison officer in charge of the academic collaborations between the institutions/universities and IGDB. He is also the coordinator of the Centre of Excellence for Plant and Microbial Science (CEPAMS), which is a joint research center established between John Innes Centre, UK, and the Chinese Academy of Sciences.



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Weicai Yang received his Ph.D. from Wageningen University, the Netherlands, in 1994. He did postdoc researches subsequently at Wageningen University, Cold Spring Harbor Laboratory, USA, the Institute of Molecular Agrobiology, Singapore. In 2000, he was appointed as Senior Scientist and Principal Investigator in Temasek Life Sciences Laboratory, Singapore. In 2003, he joined to the Institute of Genetics and Developmental Biology under the CAS 100 Talent Program. Yang was awarded Distinguished Young Scholars by National Science Foundation of China in 2003, National Natural Science Award (Second Prize) in 2013, and 2016 Top 10 Scientific Advances in Life Sciences of China. His research focuses on molecular genetics of sexual plant reproduction.



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Xianzhong Feng got his PhD from the Institute of Plant Physiology and Ecology, Shanghai Institutes of Biological Sciences, Chinese Academy of Sciences, in 2002. M.S., from the College of Life Science, North West Agriculture and Forestry University, (China), in 1996; B.S., from Lanzhou University (China), in 1991. Since 2013, he is Director and Professor at the CAS Key Laboratory of Soybean Molecular Design Breeding, Northeast Institute of Geography and Agroecology. Professor at Shandon Normal University, China (2007-2012). Project Scientist at John Innes Centre, UK (2006-2007). Post-doctoral Researcher at University of Edinburgh, UK (2003-2006). His research interests are plant genomics and soybean molecular breeding. Peer review of several scientific journals.



**Yiping Tong** (Institute of Genetics and Developmental Biology-CAS)

Bachelor of Agronomy, Beijing Agricultural University (1988). Master Degree, Research Center for Eco-environmental Sciences (RCEES), CAS, Beijing (1993). PhD, IGDB, CAS (1999). Research Assistant, Assistant Professor, Associate Professor in RCEES (1988-2004). Visiting Scholarship, Rothamsted Research, Harpendon, Herts, UK (2001-2002). Since 2004, Associate Professor, Principal Investigator in IGDB. Tong's Lab focuses on genetic control of nitrogen (N) and phosphorus (P) use in wheat. The studies include: (1) Mapping QTLs for N and P use efficiency in wheat; (2) Isolating genes regulating root morphology and its response to nutrient availability, N and P transporters, nitrate and phosphate signaling and N assimilation. (3) Molecular breeding for wheat with improved N and P sue efficiency through marker-assisted selection, transgenic approach and genome editing. Tong's Lab has published 50+ papers in peer-reviewed journals including Nucleic Acids Research, Plant Physiology, Plant Biotechnology Journal, New Phytologist and The Plant Journal.



**Yonghui Yang** (Institute of Genetics and Developmental Biology-CAS)

Yonghui Yang is Vice Director (2010-present) of Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology of CAS. He is a hydrologist graduated from Chiba University of Japan. He served as the head of CAS Key Laboratory of Agricultural Water Resources (2008-2016) and Vice Director of CAS Center for Water Resource Research (2006-2017). He is also a Life Member of Clare Hall in Cambridge University, UK. His major researches include: regional agricultural water assessment, modelling for runoff and groundwater change, changes in water cycle affected by LUCC and climate change, and Land-Water-Food NEXUS in regional and international scale. He has published 75 papers in international journals such as Journal of Geophysical Research, Journal of Hydrology, Water Resources Research, Agricultural water management and etc, and over 50 papers in Chinese Journals.



**Zhiyong Liu** (Institute of Genetics and Developmental Biology-CAS)

Zhiyong Liu is Principal Investigator at the Institute of Genetics and Developmental Biology, CAS. His lab is doing wheat genomics, genetics and breeding researches focused on identification, mapping and map-based cloning of important genes for disease resistance (powdery mildew, stripe rust, leaf rust, spot blotch, etc.) and agronomic traits (yield, plant architecture, etc.). They are trying to use the genes identified for developing wheat breeder friendly germplasms and wide adapted high-yielding new cultivars. They are also working on Brachypodium for host-microbe interaction research and comparative genomics analysis. Major research topics include: 1. Mapping and cloning of wheat powdery mildew resistance genes; 2. Mapping and cloning of wheat rust (stripe rust, leaf rust) resistance genes; 3. Mapping and cloning of wheat spot blotch resistance genes; 4. Mapping and cloning of wheat yield traits associated genes/QTLs; 5. Wheat germplasm innovation and breeding; 6. Cloning of Brachypodium distachyon BSMV resistance genes and understanding of host-virus interactions mechanism; 7. Genomic variations of wheat wild progenitors Aegilops tauschii, Triticum urartu, and Triticum dicoccoides.

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