22ª Conferência Twas-Lacrep de Jovens Cientistas
1ª Conferência Regional da TYAN para América Latina e Caribe
▪ Rio de Janeiro, 27 a 29 de novembro de 2019 ▪

TYAN MEMBERS | INVITED SPEAKERS

ALEJANDRA I. DOMIC

Biologist, born in La Paz, Bolivia. Research interests based on understanding the role of climate change and human disturbances in the distribution, structure and composition of tropical forests and semi-arid regions. Completed her undergraduate studies at the Universidad Mayor de San Andrés (Bolivia) and later her doctorate in Ecology, Systematics and Evolution at the Saint Louis University of San Luis. Has been a postdoctoral researcher at the University of Pittsburgh (USA), the Center for Advanced Studies in Arid Zones (Chile), and currently in the Department of Geosciences and the Department of Anthropology at Pennsylvania State University (USA). Dr. Domic is also a research associate with the National Herbarium of Bolivia, where she carries out research projects in Bolivia. Was recently awarded the Marie Curie award for women scientist granted by the Bolivian National Academy of Sciences.

ANA CAROLINA LEONARDI

Journalist working with science communication since 2013. She studied at the School of Communications and Arts of the University of São Paulo (USP). After it, she studied digital communication and new media at the University of Leeds, United Kingdom (2015). Worked with teachers and researchers of the University of São Paulo, translating and releasing information about the university's research projects to the community outside the university. From 2016 to 2019, she worked for Superinteressante magazine, attempting to make hard science accessible, engaging and fun.

ALEXANDER DELUNA

Research Professor at the Unidad de Genómica Avanzada (Langebio) of CINVESTAV-IPN in Irapuato, Mexico, where he leads the Systems Genetics Laboratory. Focus and expertise on aging genetics, whereby his lab seeks to contribute to better understanding of how genes, environment, and their interactions shape this complex biological trait, using budding yeast as a model. His background is on the fields of genetics, evolution, and cellular metabolism. Has a

Biology BSc degree from the University of Guadalajara, Mexico, and obtained his Ph.D. in Biomedical Science at the National Autonomous University of Mexico (UNAM). Was Postdoctoral Research Fellow at the Department of Systems Biology at Harvard Medical School. Has authored 34 research articles, including publications in PLOS Genetics, PLOS Biology, Aging Cell, and Nature Genetics, cited over 1500 times. In 2012, was named Young Affiliated Member of TWAS World Academy of Sciences, and in 2017 was awarded the Aida Weiss-UNAM award for biomedical genomics research. For his scientific contributions and commitment to the development of science in the region, was elected member, in 2017, of the ACAL Latin American Academy of Science.

ANDREA PAULA-LIMA

Pharmacist and PhD in Biological Chemistry from the Federal University of Rio de Janeiro, Dr. Paula-Lima developed her post-doctorate at the University of Chile, where she is currently associate researcher at the Institute of Biomedical Neuroscience, and Assistant Professor at the Faculty of Dentistry. For her professional contribution to the study of Alzheimer's disease (AD), won the Junior Faculty Award from the AAT-ADPD 2011 (Barcelona, Spain). Has also received distinctions from important scientific societies such as the Society for Neurosciences (USA), the National Academy of Sciences of Chile and Brazil, the Council for the Lindau Nobel Laureate Meetings, and The Royal Society. Using experimental models ranging from in vitro to study in patients, Dr. Lima is interested in elucidating and blocking the intraneuronal signaling pathways activated by beta-amyloid peptide oligomers, with emphasis on those pathways that are dependent on calcium ion as the second messenger. She is also searching for functional alterations detectable by fEEG in patients, to contribute to the early diagnose of AD.

ANTONIO JOSÉ DA COSTA FILHO

Has a Bachelor degree in Physics from the University of São Paulo (USP, 1994), Masters' degree in 1996. His Ph.D. project was developed both in São Carlos and in Ithaca (USA), where he spent 3 years as visiting graduate student at Cornell University. In 2001, he received his Ph.D. degree in Physics from the University of São Paulo (USP), and started working as Assistant Professor at USP (Campus São Carlos). He is currently Full Professor at USP-Ribeirão Preto; his research interests involve the investigation of interactions between biomolecules, with emphasis on how the interaction between proteins and their ligands (substrates, inhibitors, and membranes) can lead to modulation of protein function. More recently, has developed interest in the structural behavior of proteins involved in unconventional secretory pathways of the cell, in particular the so-called Golgi Reassembly and Stacking Proteins (GRASPs). To accomplish these objectives, his group uses a combined and interdisciplinary approach of experimental techniques, such as magnetic resonance, circular dichroism, and microcalorimetry. Has received several awards for his teaching skills, and also for contributions to his specific field of scientific interest. Dr. Costa Filho is a Young Affiliate Alumnus of the Brazilian Academy of Sciences and of the World Academy of Sciences; former member and coordinator of the Advisory Committee of the Brazilian National Science Foundation (CNPq) on Biophysics, Biochemistry, Physiology,

Pharmacology and Neurosciences; current President of the Brazilian Biophysical Society, and director of the Ribeirão Preto Institute of Advanced Studies of the University of São Paulo.

CLAUDIA FIGUEIREDO

Research area : neuroscience focused towards understanding the pathological neuroimmune modulation that occurs in neurodegenerative diseases, aiming at
the development of preventive or therapeutics strategies to these conditions. In one of her first projects as an independent researcher, Dr. Figueiredo used mouse model of sepsis to study the late cognitive impairment associated to this condition. The research found that a disrupted hippocampal insulin signalling is linked to memory impairment in sepsis-surviving mice, similarly to what has been described in AD models. Her research group also published important findings related to the alpha-synuclein oligomers, an important toxin associated to Parkinson's disease. During her career, she has developed a strong and broad background in the study of the fundamental mechanisms that modulate neurodegenerative diseases. She is affiliated member of the Brazilian Academic Science and published more than 50 peer-reviewed papers on topics related to pharmacology and neuroscience. Dr. Figueiredo is currently proposing a challenging project : elucidate in the adult central nervous system the neuroimmune mechanisms involved in Zika Virus infection.

DANIEL LIMONTA

Training and research focused on lessening the health burden of global pathogens such as dengue and zika viruses. Currently, receiving cell biology and molecular virology training through a Post-Doctoral Fellowship, at the University of Alberta, Edmonton, Canada. The University of Alberta is among the top-ranking universities in Canada. Graduated from the University of Havana School of Medicine, the most prestigious school of medicine in Cuba. In 2014, he completed his Ph.D. dissertation at the Pedro Kouri Institute of Tropical Medicine (IPK) in Havana, Cuba. IPK is the national reference center for infectious diseases and a Pan-American Health Organization/World Health Organization Collaborating Center. The Ph.D. dissertation focused on the association of apoptosis with clinical manifestations of dengue hemorrhagic fever. Throughout his research career, Dr. Daniel has published peer-reviewed manuscripts in leading journals in the area of infectious diseases and virology. Most of these publications are on dengue and zika viruses. Dr. Limonta has presented his research at international conferences and scientific institutions in Spain, Brazil, US, Italy, Israel, Germany, Canada and Oman. Because of his research accomplishments, he was twice the recipient of the most prestigious annual award from the National Academy of Sciences (2009 and 2013) in Cuba. In 2009, he also received the most important individual annual award from the Ministry of Health in Cuba. Dr. Limonta was elected as first Young Affiliate Fellow of The World Academy of Sciences (TWAS), and member of the Global Young Academy (GYA) from Cuba.

EVA ACOSTA RODRIGUEZ

Graduate of the Facultad de Ciencias Quimicas, de la Universidad Nacional de Cordoba, where she received the title of MSc (Biochemistry) in 2000, and Ph.D. in Chemistry in 2005. During work on her doctoral thesis under the direction of Dr. Adriana Gruppi, she studied the mechanisms of regulation of survival and differentiation of B lymphocytes during infection with *Trypanosoma cruzi*. In the period 2005-2007, she performed her postdoctoral training under the direction of Dr. Federica Sallusto (Institute for Research in Biomedicine, Bellinzona, Switzerland) investigating the biology of human Th17 cells. In 2007, returned to Argentina, a postdoctoral fellow of CONICET under the direction of Dr. Adriana Gruppi. Since 2008, directs a research group integrating the areas of experience gained during her doctoral and postdoctoral studies. Currently, a member of the research career of CONICET (Category Independent) and Associate Professor in Immunology of the Facultad de Ciencias Quimicas, de la Universidad Nacional de Cordoba.

FABIÁN SÁENZ

He has 17 years of experience working in malaria. After the bachelor's degree at Pontificia Universidad Catolica del Ecuador (PUCE), completed Ph.D studies at University of Notre Dame, USA. His main area of research was the characterization of MAEBL in the life cycle of *P. falciparum*. He and his group determined that the transmembrane isoform of MAEBL is essential for the invasion of *Anopheles* salivary glands. This was the first characterization of a protein essential in mosquito stages in a human malaria parasite. After Ph.D, worked as a postdoctoral trainee in University of South Florida, in antimalarial drugs discovery, and understanding of *P. falciparum* drug resistance. In 2011, returned to Ecuador as Assistant professor at the Center for Infectious Disease Research (now Center for Research on Health in Latin America, CISeAL), at the Biology department at PUCE. The main goal of the group's research is understanding the malaria situation in Ecuador, to help in elimination policies. In particular, his group focuses in molecular epidemiology of *Plasmodium* in Ecuador. They are interested in the characterization of malaria parasite populations circulating in the country, antimalarial drug resistance in Ecuadorian parasites, and the epidemiology of malaria in low transmission areas of Ecuador. Results show that *Ecuadorian P. falciparum* are resistant to some of the common antimalarials, but the treatment currently used appears to be effective. In addition, parasites circulating in Ecuador have a diverse origin and asymptomatic malaria plays an important role in the persistence of malaria.

FEDERICO BROWN

Currently Assistant Professor at the Universidade de São Paulo. Graduated from Pontificia Universidad Católica del Ecuador (2001), with Ph.D. at the University of Washington (2008); post-doctoral work at the Max Planck Institute for Developmental Biology (2008-2010). Worked as Assistant Professor at the Universidad de los Andes, Colombia (2010-2013). Current research projects include: (1) evolution of stem cells, regeneration and coloniality in marine chordates (i.e. ascidians); (2) troglomorphism in planarians; and (3) evolution of behaviors in nematodes.

Former Fulbright Scholar (2002-2004), American Heart Association Fellow (2006-2008), and Max Planck Institute Fellow (2008-2010). Elected Member of the Ecuadorean Academy of Sciences (2016), and Young Affiliate Member for the The World Academy of Science (2013-2018). Awarded a Prometeo Professorship, with distinction (2012), by the Government of Ecuador. He helped establish the PanAmerican Society of Evo-Devo and the Colombian Society for Developmental Biology. Member of the Board for the Latin American Society for Developmental Biology (2010-2013 and 2018-). Serves as Associate Editor for Neotropical Biodiversity, Member of the Editorial Board for the Journal of Experimental Zoology Part B (JEZ-B), Review Editor of Evolutionary Developmental Biology for Frontiers in Ecology and Evolution, and Member of the Board for the Colombian Bulletin of Evolutionary Biology (COLEVOL).

FERNANDA TOVAR MOLL

She earned her MD degree from the Federal University of Rio de Janeiro (1999, UFRJ), Brazil. She completed a Medical Residency program in Radiology (2003), with an emphasis in Neuroradiology, and obtained a PhD in Morphological Sciences at UFRJ (2007). Her PhD thesis explored the use of advanced neuroimaging techniques in assessing neuroplasticity in children with brain malformations. She was a postdoctoral Fellow at the National Institute of Neurological Diseases and Stroke, National Institutes of Health (USA), from 2004-2007. Dr. Tovar-Moll is currently president-director of the D'Or Institute for Research and Education (IDOR), a private not-for-profit research institute, which she co-founded in 2009. Her current clinical and translational research focuses on functional and structural brain connectivity, brain plasticity and neuromodulation in neurological and neurodevelopmental disorders. She is also an adjunct professor (on leave) at the Institute of Biomedical Sciences and from the National Center of Structural Biology and Bioimaging (CENABIO) at UFRJ. She is an affiliated member of the Brazilian Academy of Sciences.

FRANCO M. CABRERIZO

BSc in Chemistry (2002) and Ph.D. in Chemical Science (2005) from UNLP, Argentina. Postdoctoral research fellow at CIHIDECAR (CONICET–UBA, 2005–2006). Has carried out research stays in Germany, Japan and Denmark. Since 2006, Research Member of CONICET, directing (from 2010 to date) the Photochemistry and Molecular Photobiology research group at IIB-INTECH (CONICET-UNSAM). Served as Assistant Professor at UNLP and UNSAM (2011–2013). In 2013, appointed Associate Professor at UNSAM. Current research focuses on understanding the molecular aspects of mechanisms underlying the photosensitized processes triggered by UVA and visible light. This knowledge provides valuable information for the development of different biotechnological applications that contribute to attend unresolved or neglected socially relevant local and global problems, related to some chronic and/or infectious diseases, renewable energies, etc. Dr. Cabrerizo was awarded the G. Cilento Award (I-APS, 2006), R. Caputto Award (The Nat. Acad. Sci, Arg, 2009), and Dr. E. Gros prize (The Nat. Acad. Exacts, Phys. Nat Sci, Arg, 2015).

HERTON ESCOBAR

He is a Brazilian science and environmental journalist, currently working as a special reporter for the University of São Paulo (USP). For nearly 20 years he was a reporter for 'O Estado de S. Paulo' newspaper, with more than 2K stories published in print and online, on a wide variety of topics. In recent years, his coverage has been strongly focused on science policy and research (under)funding in Brazil. He is also a contributing writer to 'Science' magazine, and freelancer at large. Recipient of several accolades, including the José Reis Award for Science Communication, the most prestigious recognition for science journalism in Brazil; as well as the National Biodiversity Award, given by the Brazilian Ministry of Environment, and the Petrobras Innovation in Journalism Prize, among others. He was a Knight Science Journalism Fellow at MIT and a visiting scholar at the UC Berkeley Graduate School of Journalism, where he studied multimedia journalism, photography and video, as well as media entrepreneurship. As a senior reporter, he has extensive experience in hard-news coverage as well as long-form, feature writing and blogging. His recent work has focused on the production of multimedia features, combining narrative text with pictures and video footage that he often shoots himself on the field — some of these pieces have won awards both in Brazil and abroad. His academic experience comprehends several disciplines, including biology, biotechnology, biomedicine, astronomy, climate change, biodiversity, environmental conservation and sustainable development. He is also an experienced hiker, mountaineer and scuba diver, which allows him to go further and deeper for environmental stories than most reporters. His field experience includes several research expeditions to the Amazon, the Atlantic Forest, the Cerrado, the Andes and the Himalayas, the Atacama Desert, the Coral Triangle, the Abrolhos Bank, Atol das Rocas and several other marine, mountain and jungle environments.

JAQUELINE GODOY MESQUITA

Ph.D. in Mathematics in 2012 at the University of São Paulo, with a period at the Academy of Sciences of the Czech Republic in Prague. Dr. Mesquita currently holds two post-doctorate positions, at the Universidad de Santiago de Chile and at the University of São Paulo. She held the position of Assistant Professor at the University of São Paulo (2013–2015); currently, Assistant Professor at University of Brasília (since 2015). Won the International Bernd-Aulbach Prize for Students in 2012, awarded by the International Society of Difference Equations. Was selected to participate at the 5th Heidelberg Laureate Forum 2017 and was also selected to be an Oberwolfach Leibniz Fellow during 2018. Elected young affiliated member of TWAS-LACREP (2018–2022), affiliated member of the Brazilian Academy of Sciences (2018–2022) and regional secretary of the Brazilian Mathematical Society (2019-2021). Currently, Dr. Mesquita is an Alexander von-Humboldt/Capes fellow at Justus Liebig Universität Giessen, Germany. She won the Brazilian prize "For women in sciences" awarded by L'Oréal, UNESCO and Brazilian Academy of Sciences in 2019 at the category of "Mathematics".

JAVIER GARCIA MARTINEZ

Catedrático de Química Inorgánica y Director del Laboratorio de Nanotecnología Molecular de la Universidad de Alicante (UA) donde ha desarrollado una extensa labor docente e investigadora en nanomateriales y en su aplicación en el sector energético. Fundador de la empresa de base tecnológica Rive Technology, que comercializa la tecnología que desarrolló durante su estancia postdoctoral Fulbright en el Instituto Tecnológico de Massachusetts (MIT). Rive Technology ha conseguido más de 80 millones de dólares de inversión de capital riesgo y da trabajo a más de cuarenta personas. Desde 2012, los catalizadores que comercializa Rive Technology se utilizan ya en varias refinerías de EEUU aumentando sensiblemente la producción de combustibles y la eficiencia energética del proceso. En junio de 2019, la multinacional química Grace compró la empresa de Javier y ahora comercializa su tecnología por todo el mundo. Fundador y presidente de Celera, un programa de apoyo al talento en España que selecciona cada año diez jóvenes excepcionales para darles recursos, formación y grandes oportunidades. Cuarenta jóvenes han se han beneficiado ya de este programa creado por Javier con la Fundación Rafael del Pino y en el que colaboran varias empresas e instituciones españolas. Javier es presidente electo de la Unión Internacional de Química Pura y Aplicada y vice-presidente de su división de química inorgánica. Además forma parte de los comités del Año Internacional de la Tabla Periódica y del Centenario de la IUPAC. El liderazgo científico y empresarial de Javier ha sido reconocido con algunos de los premios más importantes. En junio de 2014, le fue otorgado el Premio Rey Jaime I en su categoría de Nuevas Tecnologías y desde 2015 es el primer español en recibir el Emerging Researcher Award de la American Chemical Society. En verano de 2017, Javier fue reconocido por la American Chemical Society con el Kathryn C. Hach Award como el mejor emprendedor de EEUU en el sector químico. Javier es miembro del Consejo de Tecnologías Emergentes del Foro Económico Mundial, de la Academia Joven Global y Fellow de la Royal Society of Chemistry. Desde 2019, Javier es presidente la Academia Joven de España.

KAREN CASTILLO

Biophysics researcher at the Centro Interdisciplinario de Neurociencia de Valparaíso, CINV. As Young Investigator, her main research now focuses on understanding the molecular mechanisms that govern ion channel gating by temperature. During her career development, transited from Cellular Physyology, studying ion channels and transporters involved in olfactory transduction, passing for a postdoctoral training studying mechanisms of neurodegeneration in animal models and the role of autophagy in the amelioration of disease. Returned to ion channels, looking from a biophysics perspective. Her undergraduate formation at Universidad de Chile led her to receive the title of Molecular Biotechnology Engineer, with a thesis characterizing potassium channels in the cilia of olfactory neurons (2005). Ph.D. degree obtained after research in which a new mechanism for calcium removal during olfactory responses (2008) was revealed. As postdoctoral fellow at the Faculty of Medicine in Universidad de Chile, investigated the role of autophagy pathway in the clearance of protein aggregates in models of amyotrophic lateral sclerosis (2009-2013). In Valparaíso, as postdoctoral fellow, investigated the structure-function relationships in ion channels, unraveling the mechanism by

which the voltage sensors in BK channel are modulated by auxiliary subunits (2013-2016). Was enrolled as Young Researcher at CINV, and as independent researcher, associated to the biophysics line of investigation. Dr. Castillo and her group are investigating the mechanism for temperature detection in thermally-gated ion channels and the role of voltage and calcium sensors in BK channel gating (2017-present).

MARCELO FARINA

Assistant Professor, director of the laboratory of experimental neuropathology of the Federal University of Santa Catarina, Brazil. Teaches biochemistry and has developed basic research in the field of biochemistry, toxicology and neurosciences. Holds a BSc in pharmacy (1997) and a master degree (1999) in toxicological biochemistry, both from the Federal University of Santa Maria. Earned a Ph.D. in biochemistry (2003) at the Federal University of Rio Grande do Sul, Porto Alegre, Brazil. Dr. Farina's main research interests include the mechanisms mediating the toxic effects of environmental pollutants toward the central nervous system, with a particular emphasis on the potential occurrence of neurodegenerative disease as consequence of pollutant-induced neurotoxicity. The most important accomplishments derived from the research developed in his laboratory (Federal University of Santa Catarina) are related to: (i) the role of the selenoprotein glutathione peroxidase on the mechanisms of neurotoxicity elicited by the environmental contaminant methylmercury, (ii) beneficial effects of probucol and probucol-derivatives in mitigating neuronal injury in neurodegenerative processes.

OSWALT R. JIMÉNEZ

Plant breeder and geneticist from Nicaragua, graduated from the University of Helsinki, Finland. During 17 years of career, has participated in many research activities, occupying different key work positions, as a professor at the National Agrarian University, and researcher, coordinator and director in government institutions in his country. Has led research teams at the national level in partnership with prestigious international agencies. Work focused on the use of local plant genetic resources in breeding programs, aided by biotechnological tools, with the objective of obtaining varieties better adapted to climate change conditions such as droughts, heat, and occurrence of new pest and diseases strains, under conventional and participatory approaches. In addition to the development of new varieties, Dr. Jiménez has improved the use of molecular markers to conserve the genetic purity of released cultivars; and the study of local beneficial microorganisms with high potential for bio-fertilization leads to the control of pests and diseases. Currently, Dr. Jiménez is Director of the Institute for Training, Research and Environmental Development (CIDEA) at the University of Central America (UCA), as well as an advisor of the Interdisciplinary Institute of Natural Sciences in the same university.

PABLO BOLAÑOS-VILLEGAS

Associate Faculty at the University of Costa Rica, Fabio Baudrit Agricultural Research Station. Received B.Sc. in Plant Science from the University of Costa Rica (2005); and M.Sc. in

Horticulture, National Pingtung University of Science and Technology, Taiwan (2007). Ph.D. degree in Molecular and Cellular Agricultural Sciences, Taiwan International Graduate Program, Chung Hsing University and Academia Sinica, Taiwan (2014). Research objectives include advance knowledge in the reproductive biology of tropical crops to boost yields and enhance stress tolerance (done in order to advance the UN sustainable development goals of zero hunger), life on land and climate action. He is an International Representative of the American Society of Plant Biologists (ASPB), and young affiliate of the Academy of Sciences for the Developing World (TWAS/UNESCO).

PATRICIA ZANCAN

Associate Professor at the Federal University of Rio de Janeiro (UFRJ), Brazil, since 2007. Obtained MSc in 2002, and Ph.D. in Biological Chemistry at the Institute of Medical Biochemistry Leopoldo de Meis, at UFRJ, in 2005. In 2008, establishes a novel laboratory devoted to the study of signalling in cancer biology, aimed to control the development of cancer cells. During the professional career, Dr. Zancan has supervised Masters, Ph.D. and post-doctoral fellows at high levels, contributing to the formation of qualified personnel. At the administrative level, acted as the Head of the department of Pharmaceutical Biotechnology (2012-2014). Has authored more than 40 scientific articles in peer-reviewed journals. During 2014-2015, was in a sabbatical period at Université Laval, Quebec, Canada, as invited professor working in projects related to diabetes molecular triggers. In 2016, was nominated as Young Affiliate of TWAS, and elected as co-chair of TYAN (TWAS Young Affiliates Network).

ROGÉRIO PANIZZUTTI

Medical Doctor, specialist in psychiatry, with a doctorate and postdoctoral degree in neuroscience, and experience in universities and research centers in the United States, Switzerland, Ireland and France. Associate Professor and Director of the Brain Enhancement and Neuroscience Laboratory at the Federal University of Rio de Janeiro (UFRJ). Was Affiliated member of the TWAS, and fellow of the Human Frontiers Science Program, at the University of California, San Francisco, and the Global Brain Health Institute, at Trinity College, Dublin. Dr. Panizzutti has written many scientific articles, book chapters, and work that has been featured in major TV and radio shows.

ROLANDO A. GITTENS

Dr. Gittens received his bachelor´s degree in Electrical and Electronics Engineering from the Universidad Tecnológica de Panamá (2006), Master degree in Materials Science & Engineering (2011) and Ph.D. in Bioengineering (2012) from the Georgia Institute of Technology. Research focuses on the role of nanostructural and electrical properties of biomaterials in cell differentiation processes for tissue regeneration. His work has resulted in one patent and another active application for surface nanomodificación of titanium implants, more than 20 publications in high impact journals, and co-authorship of a book chapter. In addition, he

received prestigious awards such as the TWAS-LACREP Affiliated Member recognition in 2017, being named one of Central America Innovators Under 35 by the MIT Tech Review, obtaining several Young Investigator Awards in recognized international conferences, and being appointed as a Distinguished Member of the National Research System (SNI) in Panama. Currently, Dr. Gittens is a Research Engineer at the Institute for Scientific Research and High Technology Services (INDICASAT AIP) in Panama, where he continues to study biomaterials and stem cells for regenerative engineering, as well as applications of mass spectrometry for innovations in public health. Finally, he actively applies his soft skills in intellectual property and scientific diplomacy for scientific lobbying to enact laws that support the Science, Technology and Innovation system. He also works as a consultant for business innovation through R&D and the formulation of new ventures.

STEVENS REHEN

Brazilian neuroscientist, specialized in stem cell research. Teaches at the Institute of Biomedical Sciences at Federal Unversity of Rio de Janeiro (UFRJ); Scientific Director of Institute D'Or for Research and Teaching. Member of the Latin American Science Academy, affiliated member of Developing World Academy of Science (TWAS), was affiliated member (2008-2012) of the Brazilian Academy of Science. Active in Science communication. Member of the Scientific Council for the Museu do Amanhã; Scientific Council of Serrapilheira Institute, and Science advisor for television shows. Science Coordinator for ArtBio, interdisciplinary project to make science democratic from an artistic perspective. Presenter of a podcast, Trip with Science. Has published many articles in major newspapers, was columnist in Scientific American Brasil. Conferencist in Brazil and other countries.

YRAIMA CORDEIRO

Bachelor's degree in Biological Sciences from the Federal University of the State of Rio de Janeiro (UNIRIO) (1999), Master's degree (2001) and Doctor's degree (2005) in Biological Chemistry by the Federal University of Rio de Janeiro (UFRJ). Currently, Associate Professor at the Department of Pharmaceutical Biotechnology at the Faculty of Pharmacy of UFRJ. Has experience in the field of Biochemistry and Biophysics of macromolecules, working mainly in the following subjects: prion protein, protein aggregation and folding, spectroscopy, protein-protein and protein-nucleic acid interactions and screening of protein aggregation inhibitors. From September 2011 to January 2016, was vice-coordinator of the Graduate Program in Pharmaceutical Sciences (PPGCF) of the Faculty of Pharmacy, UFRJ. Since March 2016, Coordinator of the PPGCF. Dr. Cordeiro was a member of the World Academy of Sciences - TWAS (2010-2014) and an Affiliate Member of the Brazilian Academy of Sciences (2012-2016). Since 2017, Dr. Cordeiro is a TYAN member.

YURIJ CASTELFRANCHI

Associate Professor, Department of Sociology, Faculty of Philosophy and Human Sciences, Federal University of Minas Gerais (UFMG); also, Director of Scientific Communication. Doctorate in Sociology from the State University of Campinas (Unicamp). Graduation studies in Physics, at the Università degli Studi La Sapienza, Rome, Italy; Master's degree in Science Communication at the International School for Advanced Studies (SISSA), Trieste, Italy. Author of six books; two have been translated to other languages. Currently, coordinator of the Interdisciplinary Observatory (InCiTe - Inovação, Cidadania, Tecnociência), and member of the Steeering Comitee of the S&T National Institute for Public Communication of S&T (INCT-CPCT). His Works specially with STS (Science and Technology Studies), science and technology sociology, science public communication, popularization of science, scientific and environment journalism, public perception of S&T.