KEYNOTES SPEAKERS

Dr. Zaida Alvarez

Dr. Zaida Alvarez is currently a Ramon y Cajal and leading investigator of the biomaterials for neural regeneration group at Institute for Bioengineering of Catalonia (IBEC), Spain. She received her Biomedical Engineering degree from Universitat de Barcelona in 2004 and her PhD in Neuroscience from Universitat de Barcelona in 2010. As a postdoctoral fellow she joined Professor Samuel Pfaff's laboratory at the Salk Institute for Biological Studies, where she developed a transplantation technique that was published more than 10 years in high impact factor journals such as Nature Neuroscience, Nature Biotechnology, Neuron, Communications, Advanced Science or Nanoletters. In 2016, she was promoted as an assistant professor at the Universitat de Barcelona and in 2017 she was awarded with a Ramon y Cajal fellowship and a starting independent research grant from the Spanish ministry of science and innovation. Her research focuses on developing engineering in a dish strategies for the CNS, she has a patents already transferred to Stealth Biopharmaceuticals and has received several awards such as the Young Scientist Award in 2016 and Rafael Neuman Award in 2017.

Dr. Maria Asplund

Dr. Maria Asplund is leading the research group "Biosensors Microtechnology" at the University of Freiburg, Germany. Her research focuses on flexible bioelectronic interfaces with applications ranging from artificial nerves to implantable devices for neural recording and stimulation and which spread over the entire nervous system, including brain, spinal cord, peripheral nerves, and muscles, and extensively integrated with biological tissue. With a background in Applied Physics and Chemistry, she received her PhD in Chemistry from Umeå University, Sweden, in 2008. After a postdoc at Chalmers University, she started her own research group in Freiburg as a Junior Fellow of Freiburg Institute for Advanced Studies (FRIAS) in 2011, and continued as a group leader with the Cluster of Excellence BrainLinks-BrainTools. In 2017, she was appointed with a DFG Starting Grant for her development of an implantable neural interface. Since 2019 she is in addition to her position in Freiburg appointed as guest professor at the Lund University Center for Neuroscience, Sweden and is furthermore appointed as Senior Fellow of FRIAS.

Dr. Emilie Attuoll

Dr. Emilie Attuoll-Pfaff is passionate about tissue engineering. Emilie Attuoll-Pfaff has completed a bachelor and master degree in biochemistry and pharmaceutical sciences as well as an engineering degree at prestigious Ecole Centrale Paris (France). Currently a third year PhD student in the laboratory of Professor Ulrich Kneser at the Department of Hand, Plastic and Reconstructive Surgery, University Hospital of Heidelberg, Germany. Her research focuses on the study of human neural tissue in the laboratory of neuroinflammation disorders (MS/EAE) and Stroke. Currently in cooperation, Emilie is always looking for new challenges. She likes to share science with the community and is involved in various scientific popularization activities. She is also involved in the organization of the biomedical engineering master students working on stem cells. Willing to be a difference maker, she also participates in a student-service-capter project that aims to invest in her student-life-capter high-tech start-up.

Dr. Irem Bayindir-Buchhalter

Dr. Irem Bayindir-Buchhalter, Editor-in-Chief of Advanced Nanobiomed Research, Assistant Molecular Biology and Genetics at Koç University, Turkey. She received her PhD in Molecular Biology and Genetics from Koç University, Turkey, in 2009 and her MSc in Nanotechnology University and the German Cancer Research Center (DKFZ). She obtained her PhD working on antisense tissue plasmin and metabolic homeostasis at the same institute. Her passion for science communication and growing interest in continuous learning led her team to apply a combination of cutting edge in SRing-SEM. She is based in downtown working as a plan tissue-active for Advanced family of pumps.

Dr. Christophe Bureau

Dr. Christophe Bureau obtained his Ph.D in Quantum Physics at Ecole Normale Supérieure in Paris. "Nef" spent 10 years at the French Atomic Energy Commission (CEA), where he invented a process to coat masks with nanometric polymer films, patented and licensed to Arkema. In 2000, he joined Ecole Polytechnique as a lecturer in Physics and Materials Sciences. Nanofilms was acquired in 2010 by Sherwood, a Chinese company, and Nanofilms collaborating, developing and structural heart, listed on the Shanghai stock exchange (688138.SH). As of 2022, more than 1 million patients are equipped with medical devices with the Bureau™ and Superlumen™ and SOFT-Coating™ technologies. Nanofilms is also involved in nanomedicine and in nanomaterials for interventional cardiology and neurologic processes. Since 2016, Prof is also Vice-President of Ecole Polytechnique Alumnae.

Dr. Caroline Cerabu

Dr. Caroline Cerabu obtained her M.D. in 2015 by defending a thesis on the comparison of of EGMR and CD-EGMR in complex aortic aneurysms. She then obtained her specialty degree in vascular surgery in 2018 and her Ph.D. in 2020 in biomaterials for vascular surgery. She then joined the Stanford University School of Medicine as a postdoctoral fellow in pathophysiology of CLTI. She further obtained degrees in ultrasound techniques, neurol-healthy and microvascular surgery. She completed the majority of her training at the Bordeaux University Hospital in the vascular surgery department of Prof. Eric Boulanet and she is a Senior Fellow of Lumière (Dr. Mary Lorenzo) and a Senior Fellow of Bordeaux Neurocampus. Appointed to CLTI, endothelial dysfunction, complex aortic aneurysms, vascular graft and analogue infections and the implantation of CLTI in the field of vascular pathology.

Prof. Gianni Ciofani

Prof. Gianni Ciofani is Senior Researcher Tenured at the Istituto Italiano di Tecnologia (IIT), where he is Principal Investigator of the Smart Bio-Interfaces Research Line and Coordinator of the Center for Nanomedicine Interfaces (Pontremoli, Italy). His research focuses on the use of nanomaterials for biomedical applications, with particular emphasis on the development of different growth complexes for the controlled uptake and release of many pathologically and his cores supported a Biological Research Council (BRC) Starting Grant and an ERC Proof of Concept Grant in 2014 and 2016, respectively. Gianni Ciofani is author of about 180 peer-reviewed papers, co-inventor of 15 patents, co-editor of two books, and delivered about 60 invited lectures/talks in international conferences. He serves as Editorial Board Member of Nanomedicine UK, Scientific Reports, Nature Communications, Journal of Nanomedicine, Journal of Physics Materials, and Materia Materials. He is Associate Editor of Nanomedicine Nanobiology for Frontiers in Bioengineering and Biotechnology.

Dr. Magali Cucchiarini

Dr. Magali Cucchiarini, Group Leader and Vice-Director of the Center of Experimental Orthopaedics at Saarland University Medical Center (Germany). She graduated from the University of Nice (France) and her research interests are focused on the PhD Science from Saarland University. She was a senior post-doctoral fellow at Harvard Medical School and worked at the University of Rochester Medical Center (USA) before she joined the Center of Experimental Orthopaedics in Saarland University. Her research aims at gene-based approaches to treat orthopaedic disorders. She made over 100 invited international presentations, contributed 70 chapters in books and published over book (Regenerative therapy for the musculoskeletal system using recombinant adeno-associated vectors, Springer, 2015). She is Associate Editor of Frontiers in Bioengineering and Biotechnology, Frontiers in Pharmacology, Journal of Orthopaedic Research, Gene Therapy, Molecular Therapy, Molecular Medicine, Scientific Reports, Journal of Gene Medicine, Gene