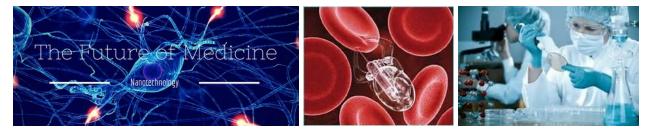
Miami-Florida Jean Monnet Center of Excellence

European and Eurasian Studies Program



EU Jean Monnet Project Health and Innovation: "Nanotechnology for Medicine" Initiatives and Perspectives: a comparison between Europe and the United States

Wednesday, June 14, 2017 – Luncheon-Workshop – Coral Gables

WORKSHOP PARTICIPANTS: BIOGRAPHICAL NOTES

Panelists



Serge Braun, PharmD, Ph.D. Chief Scientific Officer AFM-Telethon, Evry, France Member of the French National Academy of Pharmacy

Serge Braun, PharmD, PhD, is currently Scientific Director of AFM-Telethon, the French Muscular dystrophy Association acting in innovative therapies of rare diseases, and President of Genosafe, a CRO company dedicate to QC of biotherapeutic products.

He has 10 years of experience in the neuromuscular diseases field in the academic sector (Univ. Strasbourg France and USC Neuromuscular Center, Los Angeles) and 10 years in the biotechnology sector (Vice-President Research of Transgene SA, Gene therapy biotech company) where he developed his career in the field of gene therapy of genetic diseases and of immunotherapy of cancer.

He was co-founder of Neurofit, a contract research organization specialized in preclinical testings of both the central and the peripheral nervous system. He was Vice-President of Alsace BioValley, the tri-national initiative, non-profit making organization, for the development of a major biotech cluster in Europe.



Tarek R. Fadel, Ph.D. Assistant Director, The Marble Center for Cancer Nanomedicine The Koch Institute for Integrative Cancer Research Massachusetts Institute of Technology, Cambridge MA

Dr. Tarek Fadel is the Assistant Director of the Marble Center for Cancer Nanomedicine at the MIT Koch Institute for Integrative Cancer Research. Before joining MIT, Dr. Fadel was a Staff Scientist at the National Nanotechnology Coordination Office (NNCO), the coordinating body for the U.S. National Nanotechnology Initiative (NNI). During his time at NNCO, he served as the Executive Secretary for the Nanoscale Science, Engineering, and Technology (NSET) Subcommittee of the White House's National Science and Technology Council's Committee on Technology. The NSET Subcommittee coordinates planning, budgeting, program implementation, and review of the NNI.

Dr. Fadel received his PhD from Yale University in 2011, where he continued as a post-doctoral researcher to develop nanoscale platforms for cancer immunotherapy. He previously held positions as Vice President for Research at the International Technology Research Institute, and Product and Systems Interaction Engineer at Hewlett Packard Enterprise. Dr. Fadel is lead author of several peer-reviewed publications in the fields of nanomedicine, cancer immunotherapy, and biophysics.



Sergio Gonzalez-Arias, M.D. Ph.D., FAANS, FACS Executive Associate Dean, Clinical Affairs Chairman, Department of Neuroscience College of Medicine, Florida International University Chief of Neurological Surgery, Baptist Hospital, FL

Dr. Gonzalez-Arias is chief of neurological surgery at Baptist Hospital and chair of neurosurgery at Florida International University's Herbert Wertheim College of Medicine. He is the founding and current medical director of Baptist Hospital's Neuroscience Center and has served as chief of the hospital's Department of Surgery and is past president of the medical staff. He has lectured nationally and internationally on minimally invasive spine surgery and stereotactic radiosurgery. He is a fellow of the American Association of Neurological Surgeons and the American College of Surgeons. He served as chair of the international committee of the Joint Council of State Neurosurgical Societies and is a past president of the Florida Neurological Society.

He is currently involved in multicenter clinical research in minimally invasive spine surgery. Dr. Gonzalez-Arias received his M.D. and Ph.D. degrees from the University of Zaragoza in Zaragoza, Spain. He completed his surgical internship at Rush- Presbyterian St. Luke's Hospital in Chicago and his neurosurgical residency at Jackson Memorial Hospital – University of Miami. He is Board-certified by the American Board of Neurological Surgery and a fellow of the American College of Surgeons.



Babak Kateb, M.D.

Founding Chairman of the Board of SBMT, President of Brain Mapping Foundation, Scientific Director of SBMT and Brain Mapping Foundation, Director of National Center for Nano-Bio-Electronics, Senior Editor of SBMT-NeuroMapping & Therapeutics, Chairman of Neuroscience-20/G20 Summit Brain Mapping Initiative, Scientific Director and Chief Strategy Officer (CSO), California Neurosurgical Institute, CA, USA

Babak Kateb, MD is a neuroscientist with more than 15 years of research experience. His research has been focused on introduction of advance diagnostics and therapeutics into clinical neuroscience in order to rapidly identify and introduce game changing technologies to treat neurological disorders such as brain cancer, Alzheimer's disease, Parkinson's disease, brain and spinal disorders. Dr. Babak established Society for Brain Mapping and Therapeutics (SBMT), and currently he is the founding chairman of the board of directors & CEO Society for Brain Mapping and Therapeutics (SBMT), President and Scientific Director of the Brain Mapping Foundation and Director of National Center for Nano-Bio-Electronics.; the center is focused on integration of nanotechnology, cellular therapeutics/stem cell, medical device and imaging. He was Director of Research and Development at the Department of Neurosurgery at City of Hope Cancer Center. He was a Research Scientist at Department of Neurosurgery at Cedars Sinai Medical center for near a decade where he developed partnership between Cedars-Sinai and NASA and established clinical trials using NASA technologies. He is a recipient of NASA Tech Brief Award for his pioneering work on sniffing cancer cells using NASA's electronic nose and the SBMT Pioneer in Medicine award. He is editor of the "Textbook of Nanoneuroscience and Nanoneurosurgery", published by Taylor & Francis 2013 and the editor of the textbook "Neurophotonic and Brain Mapping," which is due for a release for Dec. 2015. In 2015 he took over a new role at California Neurosurgical Institute (CNI) as Scientific Director and Director of Strategic Alliance; CNI provides neurological and neurosurgical care for 5 major hospitals (4 million residents) in LA. He has been deeply involved in global neuroscience legislation: he has chaired 3 congressional briefing on Brain Mapping and given a talk to the Canadian Parliament. His initiatives have impacted the health care delivery to the wounded soldiers in the US. He has been one of the key players in President Obama's BRAIN initiative and coauthor of the G20 World Brain Mapping and Therapeutics Initiative and African Brain Mapping Initiative.



Henriette Krimphoff

Senior Scientific Officer Unit Multilateral Cooperation & Monitoring German Aerospace Center DLR-Project Management Agency (DLR-PT)

Henriette Krimphoff is Senior Scientific Officer in the Unit Multilateral Cooperation and Monitoring at the German Aerospace Center DLR-Project Management Agency (DLR-PT) since 2011. In 2012 she joined the unit for European and International Cooperation and is primarily responsible for giving policy advice to the German Federal Ministry of Education and Research (BMBF) for the international dimension of the European Research Area. In this function she is also part of the German delegation in the Strategic Forum for International STI Cooperation (SFIC). SFIC is an advisory body to the Council of the EU, and the European Commission. It aims to implement and drive forward a European Partnership in the field of international scientific and technological cooperation. Prior to joining DLR-PT, she has work as an account manager in the field of expert recruitment (contracting). Ms. Krimphoff holds a Master in European Public Affairs from the University of Maastricht (Netherlands). As Senior Scientific Officer she additionally has gained experience in EU-project management in different projects (e.g. BILAT USA 2.0, ERALEARN 2020, ERAfrica, Black Sea Horizon2020).



Madhavan Nair, Ph.D. Distinguished Professor and Chair, Dept. of Immunology Director, Institute of NeuroImmune Pharmacology Associate Dean Bio-Medical Research Associate VP, NanoMedicine; College of Medicine, Florida International University, FL

Dr. Madhavan Nair received his PhD from Tata Memorial Cancer Center, Bombay University, India in Cancer Immunology and trained at Memorial Sloan Kettering Cancer Center, New York City. He then joined the faculty of the Department of Pediatrics at University of Michigan, Ann Arbor and subsequently worked at the Department of Medicine and Microbiology at SUNY, Buffalo, NY as a Tenured Professor and Director of Research in Allergy and Immunology. He is a certified Clinical Nutrition Specialist (CNS), Fellow of American College of Nutrition (FACN) and Fellow of American Academy of Allergy, Asthma and Immunology (FAAAI).

Dr. Nair and his colleagues discovered the suppressor factor in cancer serum (1978) and first reported that intravenous drug users manifest low natural killer cell activity (1986) and morphine induces apoptosis of normal lymphocytes (1997). In 1988, Dr Nair reported for the first time (PNAS) that HIV recombinant purified gene products possess significant biological activities. His original discovery that cocaine increases the sensitivity to HIV infection by increasing the HIV co-receptors and methamphetamine exacerbates the HIV replication in dendritic cells had a profound effect on the role of these drugs on HIV disease progression. His recent research mainly involves the role of different drugs of abuses such as alcohol, morphine, cocaine and methamphetamine on neuro-AIDS and therapeutic approach to control Neuro-AIDS by specific drug targeting to brain using nanotechnology.

Dr. Nair is the first FIU researcher to earn a prestigious MERIT Award from the National Institutes of Health recognizing outstanding competence and productivity in research (2008-2018). Nair is also the recipient of University of Michigan Distinguished Research Scientist Award (1990), Exceptional Research Scholar Award from State University of New York (2005), Excellence in Faculty Scholarship Award from FIU (2008) and Presidential Leadership Operational Excellence Award from FIU in 2009.

Dr. Nair has published more than 100 papers as first and/or senior author, mentored more than 50 undergraduate, graduate, postdoctoral fellows, high school and minority students, served in various committees, organized various national and international conferences, chaired number of scientific sessions and served in various NIH study sections committees as chair/ member since 1980. His research is currently supported with four major NIH grants.

https://medicine.fiu.edu/about/faculty-and-staff/people/nairm.html

Discussants



Françisco M. Raymo, Ph.D. Professor of Chemistry Laboratory for Molecular Photonics Department of Chemistry University of Miami

Dr. Françisco M. Raymo received a Laurea in Chemistry from the University of Messina (Italy) in 1992 and a Ph.D. in Chemistry from the University of Birmingham (UK) in 1996. He was a postdoctoral associate at the University of Birmingham (UK) in 1996–1997 and at the University of California, Los Angeles in 1997–1999. He was appointed Assistant Professor of Chemistry at the University of Miami in 2000 and promoted to Associate Professor in 2004 and Full Professor in 2009. His research expertise combines the chemical synthesis of molecular, macromolecular and supramolecular constructs with the characterization of the electrochemical, photochemical and photophysical properties of the resulting materials. His current research interests are directed to the identification of operating principles to activate fluorescence, under the influence of chemical and optical stimulations, with the ultimate goals of detecting cancer cells, imaging biological samples with spatial resolution at the nanometer level and monitoring dynamic processes in real time within living organisms. He authored more than 240 publications, which have been cited approximately 14,000 times already, and his current h-index is 60.



Alice Tomei, Ph.D

Assistant Professor of Biomedical Engineering Director, Islet Immunoengineering Laboratory University of Miami

Dr. Tomei's background uniquely combines expertise in bioengineering and immunology and she is applying her skills to the development of novel immunoengineering platforms to prevent rejection after islet transplantation and to promote antigen-specific tolerance for a cure of type 1 diabetes. To that end, her strategy is to design and develop novel technology platforms with strong clinical translation potential that are supported by solid mechanistic studies in preclinical

models of type 1 diabetes that are relevant to the human disease. Her enthusiastic commitment to type 1 diabetes cure-focused research is matched by a solid track record of academic achievements and translational efforts. She has trained in the best engineering school in Italy, the Politecnico di Milano. She conducted her PhD work at the École Polytechnique Fédérale de Lausanne (EPFL), Switzerland, under the mentorship of Dr. Melody Swartz, world leader in lymphatic and cancer mechanobiology. She conducted her postdoctoral fellowship at EPFL in the laboratory of Dr. Jeffrey Hubbell, world leader in molecular engineering, and in collaboration with Dr. Cherie Stabler, a leader in diabetes bioengineering research. In recognition of these accomplishments, in 2012, Dr. Tomei was invited to become part of the prestigious Juvenile Diabetes Research Foundation (JDRF) encapsulation consortium, which gathers the world leaders in islet encapsulation and transplantation, and promotes collaborations, sharing of data and protocols with the overall goal of advancing the field. Dr. Tomei has presented her research work at several international conferences, including at the Key Opinion Leaders Meeting on Stem Cell Derived Beta Cells at Harvard Medical School in Boston in October 2016, at the annual meeting of the Immunology of Diabetes Society in San Francisco in January 2017, and at the annual meeting of the international society for cellular therapy (ISCT) in the workshop on special advancements in cellular therapies and regenerative medicine in digestive diseases in London, in May 2017, and at the annual meeting of the American Diabetes Association in San Diego in June 2017. Finally, she was invited to serve as member of the grant review panels for both the JDRF and for the California Institute for Regenerative Medicine (CIRM). Dr. Tomei's research has been funded by the Diabetes Research Institute Foundation, the Iacocca Family Foundation, the Juvenile Diabetes Research Foundation (JDRF), the Helmsley Trust, the Tronchetti Provera Foundation, the Children with Diabetes Foundation, the Department of Defense, and the National Institute of Health, including a recently awarded JDRF career development award. In recognition of her research productive, Dr. Tomei was recently awarded the University of Miami College of Engineering 2016 Eliahu I. Jury Early Career Research Award for obtaining major research grants. These important achievements further highlight her recognition in the field of immunoengineering for type 1 diabetes.