

2020 Smart Sensing Non-Classical Biology Workshop

Dr. Sofi Bin-Salamon | June 17, 2020 | Virtual

| Time | Topic | Speaker |
|----------------------|---|--|
| 0930-1000 | Login | |
| Introduction | | |
| 1000-1005 | Welcome Remarks | Dr. Stefano Lami Science Counselor Embassy of Italy to the United States |
| 1005-1010 | Horizon Europe's International Perspectives | Dr. Mary Kavanagh Minister-Counsellor, Research and Innovation Delegation of the European Union to the United States |
| 1010-1015 | From interdisciplinarity to integration of knowledge: the AFOSR – CNR model | Prof. Luigi Ambrosio Director Institute of Polymers, Composite and Biomaterials National Research Council of Italy |
| 1015-1020 | Smart Sensing Non-Classical Biology | Dr. Sofi Bin-Salamon Program Manager Air Force Office of Scientific Research |
| Enabling Discoveries | | |
| 1020-1030 | Beyond neurons: unexpected excitable behaviors in astrocytes | Dr. Valentina Benfenati Institute for Organic Synthesis and Photoreactivity National Research Council of Italy |
| 1030-1035 | Application in cutting edge technologies to study biomolecular interactions of nanomaterials | Dr. Saber Hussain 711th Human Performance Wing Air Force Research Laboratory |
| 1035-1040 | Plasmonic sensing: from coffee rings to quantum biology | Prof. Ishan Barman Department of Mechanical Engineering Johns Hopkins University |
| 1040-1045 | Disordered nanomaterials: biophysical applications of a versatile, performing and scalable platform | Dr. Annalisa Convertino Institute for Microelectronics and Microsystems National Research Council of Italy |
| 1045-1050 | Biophysical investigations on DNA-Engineered Perovskite Materials | Prof. Shashank Priya Department of Materials Science and Engineering Pennsylvania State University |

| | | |
|-----------------------------|---|---|
| 1050-1055 | Bio-hybrid organic semiconductor devices and their Photoresponses incorporating biological materials | Prof. Thomas Brown Department of Electronic Engineering University of Rome, Tor Vergata |
| 1055-1100 | Astrocyte dynamics: uncovering active mechanical rhythms in brain tissue | Dr. Kate O'Neill Department of Physics University of Maryland |
| 1100-1105 | Aquaporin and water flux: a novel path for brain cell communication and dynamics | Prof. Grazia Paola Nicchia Department of Bioscience, Biotechnology and Biopharmaceutics University of Bari |
| 1105-1110 | Structure-function relationships and ion channel dynamics of brain astrocyte glial cells in the presence of gold-nanocluster (AuNCs) bio-nanophotonic probe | Dr. Shashi Karna Weapons Materials Research and Development Army Research Laboratory |
| 1110-1115 | Organic Optobioelectronics: Transducing Light into Biosignals | Prof. Tobias Cramer Department of Physics and Astronomy University of Bologna |
| 1115-1130 | Panel Discussion | |
| Collaborative Opportunities | | |
| 1130-1135 | Collaborative international opportunities in a post-COVID-19 world | Dr. Larry Nagahara Associate Dean of Research Whiting School of Engineering Johns Hopkins University |
| 1135-1140 | Knowledge, education, collaborative inclusive growth: the experience of Astro Projects | Dr. Roberto Zamboni Director Institute for Organic Synthesis and Photoreactivity National Research Council of Italy |
| 1140-1145 | Unraveling the mystery of the brain through international, interdisciplinary partnership | Prof. Wolfgang Losert Associate Dean College of Computer, Mathematical and Natural Sciences University of Maryland |
| 1145-1150 | AFOSR International Initiatives | Dr. Misoon Mah International Program Manager Air Force Office of Scientific Research |
| 1150-1155 | The University of Bologna and the US: perspectives and opportunities for innovation in the Emilia-Romagna Region ecosystem | Prof. Beatrice Fraboni Rector's Delegate for International Relations with North America and Europe University of Bologna |
| 1155-1200 | International Institute for Biosensing | Prof. Shashank Priya Associate Vice President for Research Pennsylvania State University |
| 1200-1205 | How to foster, grow and nurture innovation ecosystems: the GW Accelerate national and international experiences | Mr. Giulio Busulini Senior Advisor for International Programs George Washington University - OIE |

| | |
|------------------|---------------------------|
| 1205-1220 | Panel Discussion |
| 1220-1230 | Final Remarks |
| 1230 | MEETING CONCLUSION |