OrBItaly 2019 - Scientific Program

Monday, October 21st, 2019

8:15 – 8:50	**Registration**
8:50 – 9:00	**Opening**
9:00 – 10:00	**Keynote Lecture** *Nanoscale Electrodes for Intracellular Electrophysiological Recording* **Bianxiao Cui**, Stanford University, USA
10:00 – 10:25	*Carbon Nanotube Porins as Versatile Biomimetic Membrane "Connectors" for Biosensing and Bioelectronic Applications* **Aleksandr Noy**, Lawrence Livermore National Laboratory and University of California Merced, USA
10:25 – 10:50	*Organic Field-Effect Transistor Structures as a Truly Multifunctional Platform: from Light-Emission to Cell Interfacing* **Michele Muccini**, CNR-ISMN, Italy
10:50 – 11:15	**Coffee Break**
11:15 – 11:40	*Ultimately Sensitive Bioelectronic Sensor by Materials and Device Structures Design* **Luisa Torsi**, University of Bari, Italy
11:40 – 12:05	*Charge Transport Processes in Organic Electronic Photocapacitors for Neuronal Stimulation* **Tobias Cramer**, University of Bologna, Italy
12:05 – 12:30	*Biosensing with Electrolyte Gated Organic Transistors* **Carlo Augusto Bortolotti**, University of Modena and Reggio Emilia, Italy
12:30 – 12:55	*PEDOT:PSS Organic Transistor Arrays for Bioelectronic Applications* **Xuan Thang Vu**, RWTH Aachen University, Germany
13:00 – 14:30	**Lunch & Poster Session**

15:00 – 15:25	*Integrated and Body-Coupled Organic Bioelectronics* **Magnus Berggren**, Linköping University, Sweden
15:25 – 15:50	*Electrical Monitoring of Cell Cultures Through Highly Stable and Printable Electrolyte-Gated Carbon Nanotubes Transistors* **Mario Caironi**, Istituto Italiano di Tecnologia, Italy
15:50 – 16:15	*Sensing and Memristive Devices: an Organic Bioelectronic Perspective for Neuromorphic and Biocompatible Systems* **Salvatore Iannotta**, CNR-IMEM and Camlin Italy, Italy
16:15 – 16:45	**Coffee Break**
16:45 – 17:10	*Using Interdigitated Organic Electrochemical Transistors as Electrophysiological and Biochemical Sensors* **Dirk Mayer**, Forschungszentrum Jülich, Germany
17:10 – 17:35	*Organic Electronic Materials for Neuromorphic Computing and Adaptive Biointerfaces* **Yoeri van de Burgt**, Eindhoven University of Technology, The Netherlands
17:45 – 19:00	**Welcome Aperitivo, Complesso dei SS. Marcellino e Festo**

Tuesday, October 22nd, 2019

9:00 – 10:00	**Keynote Lecture** *Interfacing with the Brain Using Organic Electronics* **George Malliaras**, University of Cambridge, UK
10:00 – 10:25	*Intra Membrane Light Actuators for Cell Photostimulation* **Guglielmo Lanzani**, Istituto Italiano di Tecnologia and Politecnico di Milano, Italy
10:25 – 10:50	*Polymeric and Biopolymeric Matrices for Ion-to-Electron Transduction in Bioelectronic Logic* **Paul Meredith**, Swansea University, UK
10:50 – 11:15	**Coffee Break**
11:15 – 11:40	*Sensing Human Senses with a Bioelectronic Device: an in Vivo Investigation of the Gustatory Perception* **Annalisa Bonfiglio**, University of Cagliari, Italy
11:40 – 12:05	*Light-Sensitive Conjugated Polymers Optically Control the Fate of Endothelial Progenitor Cells* **Maria Rosa Antognazza**, Istituto Italiano di Tecnologia, Italy
12:05 – 12:30	*Interaction of Femtosecond Laser-Induced Free Electrons with Biomolecules in Live Cells* **Alfred Vogel**, University of Lübeck, Germany
12:30 – 12:55	*Designing mixed conductors for bioelectronic applications* **Jonathan Rivnay,** Northwestern University, USA
13:00 – 15:00	**Lunch & Poster Session**
15:00 – 15:25	*Flexible Organic Radiation Detectors for Medical Applications* **Laura Basiricò**, University of Bologna, Italy
15:25 – 15:50	*More than Wearable: Flexible Electronics for on Body Measurements* **Piero Cosseddu**, University of Cagliari, Italy
15:50 – 16:15	*Engineering of Keratin Functionality for the Realization of All-Biopolymeric Wearable Active System for Point-of-Care Treatment* **Stefano Toffanin**, CNR-ISMN, Italy
16:15 – 16:45	

	Coffee Break
16:45 – 17:10	*Organic Based Devices to Record Bioelectrical Signals Generated by Chemical Waves in Non-Excitable Cells* **Henrique Leonel Gomes**, Instituto de Telecomunicações and University of the Algarve, Portugal
17:10 – 17:35	*Soft Electronic and Robotic Systems from Resilient yet Biocompatible and Degradable Materials* **Martin Kaltenbrunner**, Johannes Kepler University of Linz, Austria
20:00	**Social Dinner, "La Bersagliera" Restaurant**

Wednesday, October 23rd, 2019

9:00 – 10:00	**Keynote Lecture** *Merging Surface Plasmon Optical with Electronic Sensing* **Wolfgang Knoll**, Austrian Institute of Technology and Center for Electrochemical and Surface Technologies, Austria
10:00 – 10:25	*Organic Optoelectronic Biointerfaces – Photocapacitive and Photofaradaic Effects* **Eric Daniel Głowacki,** Linköping University, Sweden, and Warsaw University of Technology, Poland
10:25 – 10:40	*Functional interaction between light-sensitive conjugated polymer and Cytochrome C for active control of intracellular signaling* **Ilaria Abdel Aziz**, IIT Milano, Italy
10:40 – 10:55	*Strain-engineered PEDOT:PSS Microfiber-based Organic Electrochemical Transistors* **Youngseok Kim**, Gwangju Institute of Science and Technology, Korea
10:55 – 11:15	**Coffee Break**
11:15 – 11:40	*Far-Red / NIR Polymethyne Dyes as Versatile Active Moieties in Green Photonics and Bioelectronics* **Claudia Barolo**, University of Torino, Italy
11:40 – 12:05	*Organic Electronic Materials for Biosensing and Power Generation* **Sahika Inal**, KAUST, Saudi Arabia
12:05 – 12:30	*Use of NIR radiation for optoelectronics in Photosynthetic Microorganisms* **Massimo Trotta**, CNR - IPCF, Italy
12:30 – 12:55	*Neuromorphic Organic Devices: Fundamentals and Sensing* **Fabio Biscarini**, University of Modena and Reggio Emilia, Italy
12:55	**Closing Remarks**
15:30 – 18:00	*DEMO by Cicci Research* *sign-up my e-mail francesca.santoro@iit.it*