



Tuesday, 7th November 2023

9:00 AM – 1:35 PM

@ CRTD, Auditorium right

Frontiers
in Regeneration

CRTD Symposium

“Bioelectronics for next generation tissue interfaces”

- 9:00 – 9:05 am: Ivan Minev, Carsten Werner and Christoph Tondera**
Welcome
- 9:05 – 9:50 am: Maria Asplund (Chalmers University of Technology, Sweden)**
“tba”
- 9:50 – 10:15 am: Teuku Fawzul Akbar (Leibniz Institute of Polymer Research Dresden)**
“Conductive Anionic Polymer Hydrogels for Electrically Stimulated Release of Biomolecules”
- 10:15 – 10:40 am: Caroline Murawski (Kurt-Schwabe-Institut für Mess- und Sensortechnik Meinsberg e.V.)**
“Novel Interfaces for Optogenetics based on Organic LEDs”
- 10:40 – 11:05 am: Hans Kleemann (Technische Universität Dresden)**
“A Plastic Brain – Smart Systems based on Functional Polymers for Efficient Bio-Signal Classification”
- 11:05 – 11:30 am: Coffee Break**
- 11:30 – 12:15 pm: Jason Berwick (University of Sheffield, UK)**
“Neurovascular Coupling Breakdown in Neurodegenerative Disease”
- 12:15 – 12:40 pm: Nadine Bernhardt (University Hospital Carl Gustav Carus Dresden, TU Dresden)**
“Bioelectronics for Monitoring and Treating Mental Illnesses”
- 12:40 – 13:05 pm: Witold Polanski (University Hospital Carl Gustav Carus Dresden)**
“Brain-Machine Interfaces: Clinical Opportunities and Contemporary Challenges”
- 13:05 – 13:30 pm: Christian Mayr (Technische Universität Dresden)**
“Synergies between AI and Circuit Design for Next-Generation Neural Implants”
- 13:30 – 13:35 pm: Closing remarks**