

Free In-person Workshop at University of Torino, Italy

Speakers

Jonas Borup Roland
Senior Scientist, Novo Nordisk

Prof. Francesco Pasquilini
University of Pavia, Italy

Prof. Alessandro Bertero
University of Torino

Nelsa Estrella
Entrada Therapeutics

Cesare Gargioli
Tor Vergata Rome University

Ralf Kettenhofen
Fraunhofer Inst. for Biomedical Engineering

Elisa Mohr
Hannover Medical School

Fabian Häusermann
F. Hoffmann-La Roche Ltd

Diana Massai
Politecnico di Torino

Greg Luerman
Curi Bio

Events of Note

- **Working Lunch Presentation:**
New & Emerging Technologies in the Bioconvergence Space
- **“Hands On” Demonstration of Curi Bio’s Mantarray Instrument:**
Measure Kinetics & Contractions of Engineered Skeletal & Cardiac Tissues
- **“Hands On” Demonstration of Curi Bio’s Nautilai Instrument:**
Calcium Transient Analysis of Engineered Skeletal & Cardiac Tissues & 2D High Throughput Cultures
- **Expert Speaker Panel**
- **Networking:** Speak with Individuals Utilizing Bioconvergence Tactics

Register Today!

Register

Note: Limited Spaces Available!

Contact Brandon@curibio.com with Additional Questions

Bioconvergence (Biology, Data, and Systems Engineering) for Disease Modeling & Functional Tissue Modeling Workshop

Schedule

Day 1 | Monday, February 26

Bioconvergence: The Synergism of Biology, Data & Engineering

- 11:00a-1:00p Registration, Welcome Appetizers, and Coffee
- 1:00-1:15p Opening Remarks by Hosts Prof. Alessandro Bertero and Prof. Emilio Hirsch
- 1:15-1:45p Overview by Greg Luerman | **“Bioconvergence, the synergism of biology, software, and engineering, to push the limitations of model development and drug development”**
- 1:45-2:15p Francesco Pasquilini, Synthetic Physiology Laboratory, University of Pavia, Italy | **“From Multidisciplinary to Vertically Integrated Research in Cardiac Biomechanics and Mechanobiology”**
- 2:15-2:45p Diana Massai, Politecnico di Torino | **“Bioreactors: technological platforms for biomimetic culture and controlled investigation of functional tissue models”**
- 2:45-3:30p Coffee & Networking Break
- 3:30-4:00p Cesare Gargioli, Tor Vergata Rome University | **“Bioprinting and 3D modelling skeletal muscle”**
- 4:00-4:30p Jonas Borup Roland, Senior Scientist, Novo Nordisk | **“3D Skeletal Muscle Tissues for Metabolic Disease”**
- 4:30-5:00p Nelsa Estrella, Assoc. Director Neuromuscular Therapeutics, Entrada Therapeutics | **“Utility of a 3D Engineered Skeletal Muscle Organoid System to Assess Exon Skipping, Dystrophin Protein Restoration and Functional Improvement in a Human DMD Cell Model”**
- 5:15p-End Informal Networking & Discussion

Day 2 | Tuesday, February 27

Morning Session: Cardiovascular Modeling

- 8:30-9:00a Morning Coffee & Pastries
- 9:00-9:30a Alessandro Bertero, University of Torino | **“Heart Engineering & Developmental Genomics”**
- 9:30-10:00a Elisa Mohr, Hannover Medical School | **“Multicellular human cardiac organoids as a highly versatile platform to study cardiovascular disease in 3D”**
- 10:00-10:30a Ralf Kettenhofen, Fraunhofer Institute for Biomedical Engineering (IBMT) | **“EBiSC: Providing access to scalable, cost-efficient and consistent, high quality tools for new medicines development”**
- 10:30-11:00a Fabian Häusermann, F. Hoffmann-La Roche Ltd | **“Engineering the heart for pre-clinical safety applications”**
- 11:00-11:30a Round Table Session with Expert Panel | **“Bioconvergence in action: challenges and outlook”**

Afternoon Session: Technical Demonstrations & Interactive Workshops

- 11:30a-12:30p Working Lunch (Provided by Curi Bio & Celogics)
Presentation of Curi Bio Platform Technologies in Development (Neuromuscular Junction, Cytostretcher 3D, etc.) and Celogics Custom Cell Production (Jin Chang, Celogics)
- 12:30-2:30p Parallel Workshops
- Workshop A: Mantarray 3D Tissue Contractility Analysis
 - Workshop B: Nautilai for 3D Tissue + 2D High Throughput Calcium Transient Analysis
- 2:30-4:30p Parallel Workshops
- Workshop A: Mantarray 3D Tissue Contractility Analysis
 - Workshop B: Nautilai for 3D Tissue + 2D High Throughput Calcium Transient Analysis

