BIOCUBE

11 - 18 December 2022, Sestriere, Italy

BIO electronics photonics mechanics

Sunday 11

Lecture titles:

- ***Eric Daniel Glowacki***: *"Organic thin film photocapacitors for stimulation of the peripheral and central nervous systems"*
- ***Michael Krieg***: *"Function follows force - how mechanoreceptor neurons sense mechanical stress during touch and proprioception".*
- ***Silvia Vignolini***: *"Optical appearance design principles and examples of bio-inspired design".*

18:00	**Registration**
20:00	**Welcome reception and dinner**

Monday 12

08:45-09:00	**Opening and welcome** *Francesco De Angelis*
09:00-10:30	**Bioelectronics lecture** *Eric Daniel Glowacki*
10:30-10:45	Coffee break
10:45-12:00	**Bioelectronics session**
12:00	**Free time for discussion**
17:00-17:45	**EU projects - TOX-Free** *Michele Dipalo*
17:45-18:45	**How to write a project/paper** *Francesco De Angelis*
19:30	**Dinner**
21:00-	**Project contest organization**

Tuesday 13

09:00-10:30	**Biomechanics lecture** *Michael Krieg*
10:30-10:45	Coffee break
10:45-12:00	**Biomechanics session**
12:00	**Free time for discussion**
17:00-17:45	**EU projects - I-Gene** *Vittoria Raffa*
17:45-18:45	**Project contest help session with tutors**
19:30	**Dinner**
21:00-22:30	**Poster Session**

Wednesday 14

09:00-10:30	**Biophotonics lecture** *Silvia Vignolini*
10:30-10:45	Coffee break
10:45-12:00	**Biophotonics session**
12:00	**Free time for discussion**
17:00	**Talk** *Francesco De Angelis*
19:30	**Dinner**
21:00-22:30	**Liquid Retina** *Fabio Benfenati*

European Union's Horizon 2020 research and innovation programme

TOX Free — Grant Agreement n° 964518

I·Gene — Grant Agreement n° 862714

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Thursday 15

09:00-10:30	**Bioelectronics lecture** *Eleni Stavrinidou*
10:30-10:45	Coffee break
10:45-12:00	**Bioelectronic session**
12:00	**Free time for discussion**
17:00-17:45	**EU projects - SimulTox** *Giovanni Melle*
17:45-18:30	**EU projects - NanoBright** *Ferruccio Pisanello*
19:30	**Dinner**
21:00-22:30	**Lab experience:** *Francesco Tantussi* - How to make a confocal microscope

Friday 16

09:00-10:30	**Organoid models** *Pasterkamp, R.J*
10:30-10:45	Coffee break
10:45-12:00	**Bio-oriented applications session**
12:00	**Free time for discussion**
17:00-18.45	**EU projects – HyVis** *Elisabetta Colombo*
17:45-18:45	**Project contest help session with tutors**
19:30	**Dinner**
21:00-22:30	**Lab experience:** *Foresee Biosystems* - Photocurrent in bioelectronics

Saturday 17

09:00-10:30	**Biophotonics lecture** *Alberto Diaspro*
10:30-10:45	Coffee break
10:45-12:00	**Biophotonics session**
12:00	**Free time for discussion**
17:00-19:00	**Project contest presentations**
20:00	**Social Dinner** **Awards** **Social event**

Sunday 18

09:00	**Departures**

Lecture titles:

- ***Alberto Diaspro***: *"The intelligent optical microscope, from fluorescence to label-free"*
- ***Pasterkamp, R.J. (Jeroen)***: *"Modelling motor neuron disease in a dish".*
- ***Stavrinidou Eleni***: *"Plant Bioelectronics and Biohybrids".*
- ***Fabio Benfenati***: *"Liquid optobionics for visual restoration"*

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