**ESB Endorsement Committee**

**Request for Endorsement for Conferences/Workshops**

**Please submit your request at least three months in advance of the conference.**

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| This request is for (name of society/organization): | INEB (Instituto de Engenharia Biomédica) / i3S (Instituto de Investigação e Inovação em Saúde) |
| Date of Request: | 26/04/2019 |
| Event Title: | Interrogations at the Biointerface | 7th Advanced Summer School  Do organoids fill the in vivo / in vitro gap? |
| Event Theme: | Complex 3D culture systems / Sophisticated tissues in a dish / Design biomaterials as extracellular matrix mimics for 3D cell culture / Organoids to mimic development and disease / Culture and analysis of organoids / Ethical implications of organoids |
| Date(s) of Event: | 27 and 28 June 2019 |
| Location of Event: | Porto, Portugal |
| Event Website: | https://www.i3s.up.pt/content/event?v=70#About |

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| Name of the ESB Sponsoring Member:  (Letter to be included) |  |

**Summary:**

In 2019, the “***Interrogations at the Biointerface - 7th Advanced Summer School***” with the specific topic ***“Do organoids fill the in vitro/in vivo gap?”*** will take place in Porto, organized by i3S (Instituto de Investigação e Inovação em Saúde) / INEB (Instituto de Engenharia Biomédica) of the University of Porto.

During 10 years in a row (1999-2009), INEB has organized Summer Courses with lectures and hands-on lab sessions - the Advanced Summer Course in Cell/Material Interactions. After a short break in 2010, the Summer Schools re-emerged under the general topic of Interrogations at the Biointerface with the goal of bringing together different fields around one topic of interest.

This year edition of the Advanced Summer School will be held in Biblioteca Almeida Garret, in the beautiful city of Porto from the 27th to 28th of June, 2019. These two days will be devoted to lectures around an innovative topic – Organoids - with renowned and expert speakers. Participants are encouraged to submit their research work to be present either an oral presentation or poster. The lectures will take place in a very informal environment and participants are encouraged to participate and bring questions that can contribute to the advance of knowledge through interactive approaches.

The venue is in a library located at the gardens of Palácio de Cristal, a magic environment from the Romantic period in the late XIX century, just on the top of the city with an amazing view to the Douro river. We are sure that this atmosphere will be memorable and we believe that this course will be most valuable.

Program

**27th June 2019**

08:45-09:15 Registration

09:15-09:30 Welcome

09:30-10:30 **Engineering morphogenesis through instructed self-organization**

**Cristina Barrias; Bioengineered 3D Microenvironments Group; i3S/ INEB; Portugal**

*10:30-11:00 Coffee break*

11:00-12:00 **Photoadaptable hydrogels for studying and manipulating crypt formation in intestinal organoids**

**Kristi Anseth; Anseth Research Group, University of Colorado; USA**

12:00-13:00Selected oral communications

*13:00-14:00 Lunch*

14:00-15:00 **Bioengineering Neural Tube Morphogenesis**

**Adrian Ranga; Laboratory of Bioengineering and Morphogenesis; Belgium**

 15:00-16:30 Selected oral communications

*16:30-17:00 Coffee break*

17:00-18:00 **Kidney tubuloids for drug testing**

**Roos Masereeuw; Department of Pharmaceutical Sciences; Utrecht University; The Netherlands**

20:00 Summer School Dinner

**28th June 2019**

09:00-10:00 **Organ Bioengineering: The Future of Transplantation Medicine**

**Pedro Batista; Centro de Investigación Biomédica Aragón; Spain**

10:00-11:00 **Infection, innate immune signaling and cancer in the gut - organoids as model**

**Sina Bartfeld; Institute for Molecular Infection Biology; University of Würzburg; Germany**

*11:00-11:30**Coffee break*

11:30-12:30 Poster Session

12:30-13:15 Selected oral communications

*13:15-14:00 Lunch*

14:00-15:00 Selected oral communications

15:00-16:00 **Ethical issues concerning human organoids**

**Andrea Lavazza; Centro Universitario Internazionale Arezzo; Italy**

*16:00-16:30 Coffee break*

16:30-18:00 **Round Table**

18:00-18:30 Closing session