



BioISI
Biosystems and Integrative
Sciences Institute

Summer School on **EPITHELIAL SYSTEMS: PHYSIOLOGY AND PATHOPHYSIOLOGY**

THEMES

Topics

Personalized Therapies for Cystic Fibrosis: How to Rescue >2,000 Dysfunctional Channels?

Culturing Respiratory Cells

Physiology of Airway Epithelial Cells

Ex Vivo and In Vivo Systems for Personalized Medicine

Functional diagnosis of Cystic Fibrosis

Organoids as Model Systems to Epithelia

Physiology of Exocrine Pancreatic and Sweat Gland

Epithelial Cells : focus on ion and fluid transport

Physiology of Intestinal Epithelial Cells

Electrophysiology techniques: from tissues to cells and single-molecules

New aspects of epithelial physiology

Lab work and tutorials

Immunofluorescence of Epithelial Cells & Tissues

Primary Cultures of Nasal Epithelial Cells by Conditional Reprogramming

ASL Microscopy Measurements

Isolation of Intestinal Organoids from Murine biopsies

Culture of Human Intestinal Organoids and Forskolin Induced Assay

Ussing Chamber Analysis of Murine Native Tissues and Polarized Epithelial Cells

22-26 July 2018

Lisboa | Portugal

Faculty of Sciences
University of Lisboa

APPLICATION DEADLINE

31 May 2019

ORGANISER

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BioISI - Biosystems & Integrative
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INFORMATION AND REGISTRATION

<http://BioISI.pt/ESP2019>

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Basic Science Working Group