

Hands-on workshop on **EPITHELIAL SYSTEMS: PHYSIOLOGY AND PATHOPHYSIOLOGY**

THEMES

Topics

Cystic Fibrosis: a Disease of Epithelial Tissues
Culturing Respiratory Cells
Physiology of the Epithelial Cells
Organoids as Model Systems for the Clinic
Physiology of Intestinal Epithelial Cells
Physiology of Exocrine Pancreatic and Sweat Gland Epithelial Cells
 β -adernergic sweat measurements
Measurement of transepithelial ion movement with the Ussing chamber
Electrophysiology techniques: from tissues to cells and single-molecules
Functional diagnosis of Cystic Fibrosis by Ussing Chamber
New aspects of epithelial physiology

Lab work and tutorials

Immunofluorescence of Epithelial Cells & Tissues
Processing Primary Nasal Epithelial Cells: Conditional reprogramming
ASL Microscopy Measurements
Culture of Murine Intestinal Organoids & Cryocuts
Organoids Swelling Assay
Ussing Chamber Analysis of Murine Native Tissues and Polarized Epithelial Cells

23-27 July 2018

Lisboa | Portugal

Faculty of Sciences
University of Lisbon

APPLICATION DEADLINE

10 June 2018

ORGANISER

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INFORMATION AND REGISTRATION

<http://BioISI.pt/ESP2018>

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