Cell migration workshop:
concepts, mechanisms and techniques

Program

24th Sep – Concepts, mechanisms and techniques

09:00 - 09:30 - Registration

09:30 – 10:30 - Lecture 1: **Cell migration: concepts and techniques** (*Ana Fernandes, CBIOS - Universidade Lusófona, Portugal)*

10:30 – 12:00: practical classes **P1, P2, P3** and **P4** (see list below)

12 – 13:30: Lunch

13:30 – 15:00: practical classes **P1, P2, P3** and **P4** (see list below)

15:00 – 16:00: Coffee break

16:00 – 17-00: Lecture 2: **Molecular mechanisms of cell migration: a technical approach** *(Nuno Saraiva, CBIOS - Universidade Lusófona, Portugal)*

25th Sep – Cell migration in health and disease

09:30 – 10:15: **Talk 1 - Rita Fior (Champalimaud Foundation)**

10:15 – 11:00: **Talk 2 - Duarte Barral (NOVA Medical School)**

11:00 – 11:45: Coffee break

11:45 – 12:30: **Talk 3** (to be confirmed)

12:30 – 13:30: Lunch

13:30 – 15:30: Conclusion of practical classes **P1** and **P2** (see list below)

15:30 – 16:00: Concluding remarks

16:00 – 17:00 Evaluation (optional, for ECTS attribution only)

Practical classes

P1 - Collective cell migration assays – *(Ana Fernandes, CBIOS)*

Wound Healing Assay, Zone Exclusion Assay

P2 - Chemotaxis, and chemoinvasion – *(to be confirmed)*

Transwell-based assays

P3 - Analysis of cell adhesion and cytoskeleton – *(Nuno Saraiva, CBIOS)*

Fluorescence microscopy

P4 - Data analysis with Image J – *(Raquel Pereira, IMM)*

Random cell migration, Collective cell migration and ECM degradation

Coordinators

Ana Sofia Fernandes – Course Coordinator
CBIOS - Universidade Lusófona, Portugal
Ana Sofia Fernandes is graduated in Pharmaceutical Sciences (2004), has a PhD in Pharmacy (specialty of Toxicology, 2010, Univ. Lisboa) and is a European Registered Toxicologist (2018). She is an Associate Professor at Universidade Lusófona. She is also the coordinator of the Laboratory of Models & Molecular Mechanisms of CBIOS research center. Her main research interest is to explore the impact of ROS and redox modulators on cancer etiology and progression, including in cell migration mechanisms.
ORCID ID: 0000-0001-6350-0641

Nuno Saraiva – Course Coordinator
CBIOS - Universidade Lusófona, Portugal
Nuno Saraiva graduated in Genetics and Microbial Biology and is an MSc in Molecular Biology and Genetics from Lisbon University. Nuno finished his PhD in Cell Biology and Virology from Imperial College, London (2012) and worked as a PostDoc at the U. of Cambridge. He is a member of CBIOS since 2014, and an Assistant Professor of Cell and Molecular Biology at U. Lusófona. His research as a Principal Investigator at CBIOS has been focussed on the impact of Ca^{2+} and redox homeostases on cellular processes associated with cancer progression such as cell migration.
ORCID ID: 0000-0003-1333-9137

Confirmed Speakers and Trainers

Rita Fior
Champalimaud Foundation
Head of the “Cancer development and innate immune evasion” group.
ORCID: 0000-0001-5550-2428

Duarte Barral
NOVA Medical School, Universidade NOVA de Lisboa
Head of the “MEMBRANE TRAFFIC IN DISEASE” group.
ORCID: 0000-0001-8867-2407

Raquel Pereira
IMM – Universidade de Lisboa
Postdoctoral Researcher at the “Cell Architecture” group
ORCID: 0000-0001-9957-815X

Registration

- Registration deadline: 30 August 2022
- Maximum number of participants: 18
- Fee (includes insurance, attendance to lectures and laboratory classes; no meals included)
    - General: 150 €
    - Reduced rate: 120 €*

*The reduced rate applies to students, teachers and researchers from University Lusófona.

How to register

- **Registration form**: **https://forms.gle/GMLSUNkpChMoBMYv8**

- Proof of payment should be sent to nuno.saraiva@ulusofona.pt. Registration will only be effective after reception of this document.

Payment details

- Should be made by bank transfer to:
  BPI- Banco Português de Investimento
  NIB: 0010 0000 26831120001 44
  IBAN: pt50 0010 0000 2683 1120 0014 4
  SWIFT/BIC: BBPIPTPL
  Beneficiary: ALIES (Associação Lusófona para o Desenvolvimento da Investigação e Ensino em Ciências da Saúde)

  Description: **CellMigrat2024 First** and **Last name**

- According to “ECTS General Terms and Conditions for Advanced Training Courses”, the course registration price includes a fixed administrative fee of 20 euros that will not be reimbursed in the case of cancelation by the student.

Contact details

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