Cell migration workshop: concepts, mechanisms and techniques

Course Program

26th Jun

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 - 17-45: Talk 1: Duarte Barral, NOVA Medical School

27th Jun

10:00 – 11:00: Lecture 2: Molecular mechanisms of cell migration: a technical approach (Nuno Saraiva, CBIOS - Universidade Lusófona, Portugal)
11:00 – 11:30: Coffee break
11:30 – 12:15: Talk 3: *Rita Fior*, Champalimaud Research
12:15 – 13:15: Lunch
13:15 – 15:15: Conclusion of practical classes P1 and P2 (see list below)
15:15 – 15:30: Concluding remarks
15:30 – 16:30 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

Coordination and Invited Speakers

Coordination

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 has 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 has been a member of CBIOS and an Assistant Professor of Cell and Molecular Biology at U. Lusófona since 2014, and of Cancer Cell and Molecular Biology at the Faculty of Sciences, Lisbon U since 2024. His research as a Principal Investigator at CBIOS has been focused on the impact of Ca²⁺ and redox homeostases on cellular processes associated with cancer progression such as cell motility and survival.

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

GIMM – Universidade de Lisboa Postdoctoral Researcher at the "Cell architecture" group ORCID: 0000-0001-9957-815X

Registration

- Registration deadline: 6 June 2025
- Maximum number of participants: 20
- 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: CellMigrat2025 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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