

JULY 12, 2024

BASIC CELL CULTURE CONCEPTS

Moderator: Margarida Abrantes

- 09H00 – 09H15** **Course overview and presentation**
Margarida Abrantes (FMUC, Coimbra, Portugal)
- 09H15 – 10H15** **Cell culture: Introduction and basic concepts**
Maria Filomena Botelho (FMUC, Coimbra, Portugal)
- 10H15 – 11H15** **Cell line characterization: The impact and challenge on research**
Isabel Carreira (FMUC, Coimbra, Portugal)
- 11H15 – 11H30** **BREAK**
- 11H30 – 12H30** **Cell culture laboratory and biosafety**
Fernando Mendes (ESTeSC, Coimbra, Portugal)
- 12H30 – 13H30** **Cell cultures troubleshooting and contamination detection**
Cristina Gonçalves | Ana Rita Gomes (FMUC and FFUC, Coimbra, Portugal)

CELL CULTURE METHODS, TECHNIQUES AND APPLICATIONS I

Moderator: Fernando Mendes

- 14H30 – 15H30** **Microscopy techniques on biomedical research**
Henrique Girão (FMUC, Coimbra, Portugal)
- 15H30 – 16H30** **Immunocytochemistry in cell culture: Friend or foe**
Diana Martins (IPATIMUP, Porto and ESTeSC, Coimbra, Portugal)
- 16H30 – 16H45** **BREAK**
- 16H45 – 17H45** **Cell migration: Concepts and techniques**
Ana Fernandes | Nuno Saraiva (CBIOS, Lisboa, Portugal)
- 17H45 – 18H45** **From transfection to CRISPR/CAS9: A new era in molecular biology**
TBC

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JULY 19, 2024

CELL CULTURE METHODS, TECHNIQUES AND APPLICATIONS II

Moderator: Diana Martins

- 09H00 – 10H00** **How and why flow cytometry in cell culture**
Alexandre Salvador (Enzifarma, Porto, Portugal)
- 10H00 – 11H00** **Using human samples in cell culture lab**
Mafalda Laranjo (FMUC, Coimbra, Portugal)
- 11H00 – 11H15** **BREAK**
- 11H15 – 12H15** **Cell cultures for regenerative medicine research**
Miguel Marto (FMUC, Coimbra, Portugal)
- 12H15 – 13H15** **Natural-based biomaterials in the culturing of cells and tissues:
Fundamentals and applications**
Joaquim Miguel Oliveira (3B's, Braga, Portugal)

ADVANCED CELL CULTURE METHODS

Moderator: Miguel Marto

- 14H15 – 15H15** **Free radical brain communication and cognition: Function and failure
of neurovascular coupling**
João Laranjinha (CNC and FFUC, Coimbra, Portugal)
- 15H15 – 16H15** **3D cell culture models and bioprinting technologies applied for
biomaterials testing**
Diana Soares (University of São Paulo, Brazil)
- 16H15 – 16H30** **BREAK**
- 16H30 – 17H30** **In vitro testing of biomaterial-mediated bone regeneration: An
integrative approach**
Maria Helena Fernandes (FMDUP, Porto, Portugal)
- 17H30 – 18H30** **Understanding metastasis through liquid biopsy and organs-on-a-chip**
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