



ȘCOALA DE CITOMETRIE ÎN FLUX

05 - 07 MAI 2025, FACULTATEA DE
BIOLOGIE BUCUREȘTI

PROGRAM





LUNI, 5 MAI | MONDAY, MAY 5TH

*Venue: Platform for Research on Systemic Biology and Ecology
Splaiul Independenței, nr 91-95*

08:30 - 09:00 Înregistrare Participanți / Attendees Registration

09:00 - 09:20 DESCHIDEREA OFICIALĂ / OPENING CEREMONY

Horia BUMBEA, President of the Romanian Association of Cytometry

09:20 - 09:40 Welcome and Ice Breaker Activity

09:40 - 10:30 Course overview:

FCM principles, Applications, fluidics, optics, electronics, types of instruments

Luminița MĂRUȚESCU, Facultatea de Biologie, Universitatea din București

10:30 - 11:10 Fluorescence:

Principle of fluorescence, fluorochromes, tandem dyes, interference, filter selection, optical bench

Horia Sandu, Institutul Clinic Fundeni

11:10 - 11:30 Pauza de cafea / Coffee break

11:30 - 12:10 Fluorescence detection, instrument settings, compensations

Claude LAMBERT, Université de Lorraine, Metz, France

12:10 - 12:50 Experimental design in research applications

Livia SIMA, Institutul de Biochimie, Academia Română, București

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12:50 - 13:30 Experimental design in clinical applications

Ion DUMITRU, *Spitalul Universitar de Urgență București*

13:30 - 14:30 Pauză de prânz / Lunch break

14:30 - 17:30 PCBE Cytometry Unit practicals - Platform for Research on Systemic Biology and Ecology

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în paralel, locații diferite/
in parallel, different locations

Group 1

- **Instrument settings**
- **Titration and compensation**

Luminița MĂRUȚESCU, Claude LAMBERT

Emergency University Hospital Bucharest

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Group 2

- **Instrument settings**
- **Titration, compensation**

Ion DUMITRU, SUUB

18:00 - 20:00 Cină colegială / Welcome dinner

 Harta cu locația exactă se poate vizualiza la final de broșură.

The map with the exact location can be viewed at the end of the brochure.



MARȚI, 6 MAI / TUESDAY, MAY 6TH

*Venue: Platform for Research on Systemic Biology and Ecology
Splaiul Independenței, nr 91-95*

09:00 - 10:15 Cell functional analysis by flow cytometry: cell cycle, apoptosis, CFSE, phosphoflow

Livia SIMA, Institute of Biochemistry, Romanian Academy

10:15 - 11:00 Cell functional analysis by flow cytometry: oxidative burst, basophi activation test

Luminița MĂRUȚESCU, Faculty of Biology, University of Bucharest

11:00 - 11:20 Pauză de cafea / Coffee break

11:20 - 13:00 Lymphocytes: maturation, panels, phenotypes, clinical relevance

Horia BUMBEA, Emergency University Hospital Bucharest

13:00 - 14:00 Prânz / Lunch

14:00 - 17:30 Sample preparation and aquisition sessions

Platform for Research on Systemic Biology and Ecology 1

Group 1

- **TBNK** - Gabriela ANDROSIAC, Luminița MĂRUȚESCU
- **Immunophenotyping** – Claude LAMBERT
- **Oxidative burst** – Luminița MĂRUȚESCU

Emergency University Hospital Bucharest

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Group 2

- **Immunophenotyping TBNK** - Ion DUMITRU
- **LLC, LAL – celule normale și anormale** - Ion DUMITRU

în paralel, locații diferite/
in parallel, different locations

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MIERCURI, 7 MAI / WEDNESDAY MAY 7TH

*Venue: Platform for Research on Systemic Biology and Ecology
Splaiul Independenței, nr 91-95*

09:00 - 10:30 Group 1

- **Cell Cycle, viability analysis** - Livia SIMA

Group 2

- **LLC, LAL** - Ion DUMITRU

10:30 - 10:50 Pauză de cafea / Coffee break

10:50 - 12:30 Data analysis sessions

Group 1

- **TBNK analysis** – Claude LAMBERT, Luminița MĂRUȚESCU
- **Oxidative burst** – Claude LAMBERT, Luminița MĂRUȚESCU

Group 2

- **LLC, LAL** - Ion DUMITRU

12:30 - 13:30 Prânz / Lunch

13:30 - 14:30 Resolve complex biological data with the latest technologies – BD

Jens Fleischer

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14:30 - 16:00 Data analysis sessions

Group 1

Cytokine analysis - Ariana HUDIȚĂ

Group 2

- **LLC, LAL - Ion DUMITRU**

16:00 - 16:15 Course evaluation

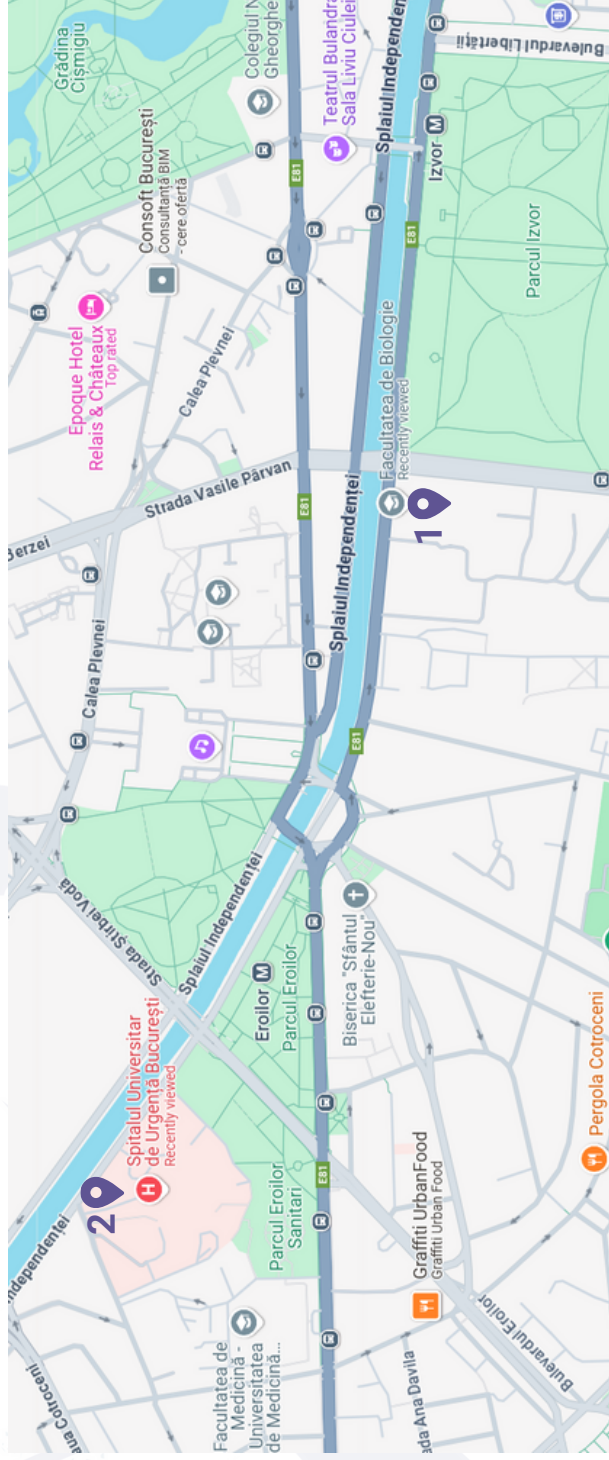
16:15 - 16:30 Închidere / Closing



LOCAȚII / LOCATIONS

1 Facultatea de Biologie, Universitatea din București
PCBE Cytometry Unit practicals
Splaiul Independenței 91-95, București 050095

2 Spitalul Universitar de Urgență București
Bucharest University Emergency Hospital
Splaiul Independenței 169, București 050098



Mulțumim Partenerilor

AstraZeneca 

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