

# Frontiers of Integrative Synthetic Biology Research I

**MASTER'S DEGREE IN INTEGRATIVE SYNTHETIC BIOLOGY**

***UNIVERSIDAD INTERNACIONAL MENÉNDEZ PELAYO***

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## GENERAL DATA

### Name

Frontiers of Integrative Synthetic Biology Research I

### Code

102626

### Academic year

2023-24

### Degree

[MASTER'S DEGREE IN INTEGRATIVE SYNTHETIC BIOLOGY](#)

### ECTS Credits

15

### Type

MANDATORY

### Duration

Cuatrimestral

### Language

## FACULTY

### Coordinator/s

**Peretó Magraner, Juli**

*Doctor en Química*

*Catedrático de Universidad, Bioquímica y Biología Molecular (UV)*

*Instituto de Biología Integrativa de Sistema I2SysBio (UV- CSIC)*

**Peñalva Soto, Miguel Ángel**

*Profesor de Investigación*

*Centro de Investigaciones Biológicas (CIB)*

*Consejo Superior de Investigaciones Biológicas (CSIC)*

**Rivas Caballero, Germán Alejandro**

*Profesor de Investigación de OPI*

*Centro de Investigaciones Biológicas Margarita Salas (CIB-CSIC)*

### Lecturers

**Siddharth , Deshpande**

*Assistant PROFESSOR*

*Principal investigator*

*Laboratory of Physical Chemistry and Soft Matter, Wageningen University*

**Ríos Solís, Leonardo**

*Associate Professor of Metabolic and Bioprocess Engineering*

*University College London, Department of Biochemical Engineering*

**Danelon , Christophe**

*Associate Professor*

*Delft University of Technology*

**García Martínez, Javier**

*Catedrático de Química Inorgánica  
Presidente, Academia Joven de España  
Universidad de Alicante*

**Jiménez Dalmaroni, Maximiliano Javier**

*D. Phil  
Biochemistry Visiting Scientist  
National University of La Plata (UNLP)  
Institute of Biochemistry Research of La Plata (INIBIOLP)  
Faculty of Medical Sciences*

**Santala , Suvi**

*Dr Sci (Tech)  
Academy Research Fellow (Molecular and metabolic engineering)  
Tampere University*

**Montoliu José, Lluís**

*Licenciado (1986) y Doctor (1990) en Ciencias Biológicas por la Universidad de Barcelona  
Investigador Científico del CSIC  
Centro Nacional de Biotecnología (CNB-CSIC)*

**Schwille , Petra**

*Max Planck Inst. Biochemistry, Martinsried, Germany)*

**Nikel Mayer, Pablo Iván**

*PhD.  
Full Professor/ Head of Section  
Denmark Technical University*

**Seeberger , Peter**

*Professor  
Director Max Planck Institute for Colloids and Interfaces, Potsdam, Germany*



## SCHEDULE

### Timetable

06/10/2023

11:00 - 12:00

OPENING LECTURE: What is life? How to approach an ancient question with cutting-edge research (ONLINE)

Petra Schwille

Max Planck Inst. Biochemistry, Martinsried, Germany)

20/10/2023

12:00 - 13:00

MISB-FRONTIERS: Designing biomimetic systems: from understanding biological self-organization towards synthetic cells

Deshpande Siddharth

Assistant PROFESSOR

Principal investigator

Laboratory of Physical Chemistry and Soft Matter, Wageningen University

24/11/2023

12:00 - 13:00

MISB-FRONTIERS: Constructing minimal cells that can evolve (ONLINE)

Christophe Danelon

Associate Professor

Delft University of Technology

27/11/2023

12:00 - 13:00

MISB FRONTIERS: Automated Glycan Assembly Enables the Glycosciences

Peter Seeberger

Professor

Director Max Planck Institute for Colloids and Interfaces, Potsdam, Germany

29/11/2023

16:00 - 18:00

MISB FRONTIERS

Javier García Martínez

Catedrático de Química Inorgánica

Presidente, Academia Joven de España

Universidad de Alicante

18/12/2023

12:00 - 13:00

MISB-FRONTIERS: The untapped chemical diversity of environmental bacteria: tools and applications

Pablo Iván Nikel Mayer

PhD.

Full Professor/ Head of Section

Denmark Technical University

12/01/2024

12:00 - 13:00

MISB-FRONTIERS: Metabolic engineering tools and strategies for high-value lipid production in bacteria

Suvi Santala

Dr Sci (Tech)

Academy Research Fellow (Molecular and metabolic engineering)

Tampere University

22/01/2024

16:00 - 18:00

MISB FRONTIERS: ONLINE

Lluís Montoliu José

Licenciado (1986) y Doctor (1990) en Ciencias Biológicas por la Universidad de Barcelona

Investigador Científico del CSIC

Centro Nacional de Biotecnología (CNB-CSIC)

12/02/2024

12:00 - 13:00

MISB FRONTIERS:

Leonardo Ríos Solís

Associate Professor of Metabolic and Bioprocess Engineering

University College London, Department of Biochemical Engineering



27/02/2024

12:00 - 13:00

MISB FRONTIERS:

Maximiliano Javier Jiménez Dalmaroni

D. Phil

Biochemistry Visiting Scientist

National University of La Plata (UNLP)

Institute of Biochemistry Research of La Plata (INIBIOLP)

Faculty of Medical Sciences