

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

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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

García Martínez, Javier

Catedrático de Química Inorgánica

Presidente, Academia Joven de España

Universidad de Alicante

Pelletier , James

CNB-CSIC, Madrid

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

van Hest , Jan

Doctor

Professor of Bio-organic Chemistry

Eindhoven University of Technology

Santala , Suvi

Dr Sci (Tech)

Academy Research Fellow (Molecular and metabolic engineering)

Tampere University

Schwille , Petra

Max Planck Inst. Biochemistry, Martinsried, Germany)

Nikel Mayer, Pablo Iván

PhD.

Full Professor/ Head of Section

Denmark Technical University

Conti , Elena

Profesor Dr.

Max Planck Institute of Biochemistry / Department of Structural Cell Biology

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

12/04/2024

12:00 - 13:00

MISB FRONTIERS:

Jan van Hest

Doctor
Professor of Bio-organic Chemistry
Eindhoven University of Technology

19/04/2024

12:00 - 13:00

MISB FRONTIERS: Should it stay or should it go: molecular mechanisms of mRNA homeostasis

Elena Conti

Profesor Dr.
Max Planck Institute of Biochemistry / Department of Structural Cell Biology

22/04/2024

12:00 - 13:00

MISB FRONTIERS: ONLINE

25/06/2024

11:00 - 12:00

Acto de Clausura del curso académico 2023-2024 - Lección científica de clausura

Tobías Erb

Dr. rer. nat., Institute of Microbiology, University of Freiburg (Germany) 2009
Director - Department Biochemistry & Synthetic Metabolism
Max-Planck-Institute for terrestrial Microbiology

12:00 - 13:00

Acto académico de Clausura del curso académico 2023-2024