

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)

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Centro de Investigaciones Biológicas (CIB)

Consejo Superior de Investigaciones Biológicas (CSIC)

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Profesor de Investigación de OPI

Centro de Investigaciones Biológicas Margarita Salas (CIB-CSIC)

Lecturers

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Assistant PROFESSOR

Principal investigator

Laboratory of Physical Chemistry and Soft Matter, Wageningen University

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Associate Professor of Metabolic and Bioprocess Engineering

University College London, Department of Biochemical Engineering

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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