

Frontiers of Integrative Synthetic Biology Research I

MASTER'S DEGREE IN INTEGRATIVE SYNTHETIC BIOLOGY

UNIVERSIDAD INTERNACIONAL MENÉNDEZ PELAYO

This document can be used as reference documentation of this subject for the application for recognition of credits in other study programmes. For its full effect, it should be stamped by UIMP Student's Office.



GENERAL DATA

Name

Frontiers of Integrative Synthetic Biology Research I

Code

102626

Academic year

2022-23

Degree

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

ECTS Credits

15

Type

MANDATORY

Duration

Cuatrimestral

Language

FACULTY

Coordinator/s

Ares García, Saúl

*Doctor en Matemática Aplicada
Científico Titular del CSIC
Centro Nacional de Biotecnología, Dpto Biología de Sistemas*

Peretó Magraner, Juli

*Doctor en Química
Catedrático de Universidad, Bioquímica y Biología Molecular (UV)
Instituto de Biología Integrativa de Sistema I2SysBio (UV- CSIC)*

Fernández Alonso, María del Carmen

*Doctora en Ciencias Químicas
Centro de Investigaciones Biológicas (CIB)
Consejo Superior de Investigaciones Científicas (CSIC)*

Otero Muras, Irene

*Doctora en Ingeniería Química (Universidad de Vigo)
Científica Titular CSIC
Instituto de Biología Integrativa de Sistemas (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

Giraldo Suárez, Rafael

Centro Nacional de Biotecnología (CNB-CSIC)

Profesor de Investigación de OPI

Rodríguez Banga, Julio

Doctor en Química Industrial

Profesore de Investigación del CSIC

Misión Biológica de Galicia, CSIC

Ellis , Thomas

PhD in Pharmacology, University of Cambridge

Professor of Synthetic Genome Engineering

Imperial College Centre for Synthetic Biology (IC-CSynB) and the Department of Bioengineering at Imperial College, London

Nikel Mayer, Pablo Iván

PhD.

Full Professor/ Head of Section

Denmark Technical University

de Lorenzo Prieto, Víctor Emilio

Profesor de Investigación

Centro Nacional de Biotecnología (CNB)

Consejo Superior de Investigaciones Científicas (CSIC)

Spruijt , Evan

Professor

Professor of Physical Organic Chemistry

Institute for Molecules and Materials, Radboud Univ., Nijmegen, NL

SCHEDULE

Timetable

07/10/2022

10:00 - 12:00

OPENING LECTURE: Future challenges of synthetic biology

Thomas Ellis

PhD in Pharmacology, University of Cambridge
Professor of Synthetic Genome Engineering
Imperial College Centre for Synthetic Biology (IC-CSynB) and the Department of Bioengineering
at Imperial College, London

18/11/2022

12:00 - 14:00

Seminario

Evan Spruijt

Professor
Professor of Physical Organic Chemistry
Institute for Molecules and Materials, Radboud Univ., Nijmegen, NL

13/12/2022

12:30 - 13:30

FRONTIERS. Optimization in Systems and Synthetic Biology

Julio Rodríguez Banga

Doctor en Química Industrial
Profesore de Investigación del CSIC

Misión Biológica de Galicia, CSIC

16/12/2022

12:00 - 14:00

Daring the limits of chemistry in living cells by engineering synthetic metabolism for biofluorination

Pablo Iván Nikel Mayer

PhD.
Full Professor/ Head of Section
Denmark Technical University

17/02/2023

12:00 - 14:00

Frontiers "Immunology of Ebola virus disease"

César Muñoz Fontela

Professor
Research Group Leader
Bernhard Nocht Institute for Tropical Medicine

24/03/2023

12:00 - 14:00

Seminario

Bert Poolman

Professor, Dr.
Full Professor- Biochemistry
Groningen Biomolecular Sciences and Biotechnology Institute

30/03/2023

12:00 - 14:00

Seminario

Guillermo Rodrigo Tárrega

Doctor
Científico Titular del CSIC
I2SysBio, CSIC, Universidad de Valencia

31/03/2023

12:00 - 14:00

Seminario

Ohad Medalia

Professor
Full professor of Biochemistry
University of Zurich

11/04/2023

11:00 - 13:00

Seminario

Patrick Yizhi Cai

The University of Manchester

27/04/2023

9:00 - 10:00

MISB-Lilly Round Table

José María Sánchez-Puelles González-Carvajal

Investigador Científico
Centro de Investigaciones Biológicas (CIB)
Consejo Superior de Investigaciones Científicas (CSIC)

10:00 - 10:30

MISB-Lilly Round Table

Ana María Castaño Mansanet

Doctora
Directora Senior-Investigación
Eli Lilly and Company

10:30 - 11:00

MISB-Lilly Round Table

Severine Gharbi

PhD
Senior Research Advisor
Eli Lilly and Company, Alcobendas, Spain

05/05/2023

12:00 - 14:00

Seminario

Alessandro Costa

Dr Principal Group Leader, Structural Biology, DNA replication
The Francis Crick Institute

24/05/2023

12:00 - 14:00

Seminario

Xavier Salvatella Giralt

Doctor en Ciencias Químicas
Profesor de Investigación ICREA y Group Leader
ICREA y IRB Barcelona

05/06/2023

12:00 - 14:00

Seminario

Peter Bieling

Dr. Research Group Leader
Max Planck Institute of Molecular Physiology / Department of Systemic Cell Biology

23/06/2023

10:00 - 12:00

Ceremonia clausura primera promoción MISB

Aurelien Roux

Univ. Geneva. Switzerland

Laurent Blanchoin

CEA/CNRS/Universite Grenoble Alpes, Grenoble