



Master on Integrative Synthetic Biology

Engineering Molecular and Cellular Systems

Academic Year 2023-2024

COURSE 2 (MISB2) - S1 (10/2023 – 02/2024) & S2 (03-07 /2024)

version 29SEP2023

SEMESTER 1 (10/2023 – 02/2024)

M2. FRONTIERS II (4-6 seminars & 1-2 workshops)

M3. EXTENSION II

(Workshops lasting 1-3 days, preferable organized in the afternoon, to facilitate the attendance of both Master's students and other interested people.)

EXT.2A: Career development

EXT.2B. Communication and project management

EXT.2C: Scientific entrepreneurship

EXT.2D: Responsible research (2): research integrity

M4. INTEGRATED LABS II (+ TFM)

29/02/2024: GRADE REPORTS SEMESTER 1

SEMESTER 2 (03/2024 – 07/2024)

M2. FRONTIERS II (4-6 seminars & 2 workshops)

M5: TFM

28/06/2024: GRADE REPORTS SEMESTER 2

15/07/2024: GRADE REPORTS TFM

SEMESTER 1 (10/2023 – 02/2024)

OCTOBER 2023				
Day	Hour	Lectures / Activities	Teacher	Room
02/10	11:00-13:00	MISB3 – welcoming	MISB academic board and coordinators	CIB (Hall)
03/10				
04/10				
05/10				
06/10	11:00-12:00	OPENING LECTURE: What is life? How to approach an ancient question with cutting-edge research	Petra SCHWILLE (MPI Biochemistry, Martinsried)	ONLINE
M2. FRONTIERS II				
M3. EXTENSION II				
(Workshops lasting 1-3 days, preferable organized in the afternoon, to facilitate the attendance)				
<ul style="list-style-type: none"> • EXT.2A: Career development • EXT.2B: Communication and project management • EXT.2C: Scientific entrepreneurship • EXT.2D: Responsible research (2): research integrity 				
M4. INTEGRATED LABS II				
<ul style="list-style-type: none"> • extended lab rotations in the lab tutoring the TFM 				
09/10				
10/10				
11/10				
12/10	HOLIDAY			
13/10				
16/10				
17/10				
18/10				
19/10				
20/10	12:00-13:00	MISB-FRONTIERS: Designing biomimetic systems: from understanding biological self-organization towards synthetic cells	Siddhart DESHPANDE (Univ. Wageningen, NL)	CIB (Hall) + ONLINE
23/10				
24/10				
25/10				
26/10				
27/10				
30/10				
31/10				

NOVEMBER 2023

Day	Hour	Lectures / Activities	Teacher	Room
M2. FRONTIERS II				
M3. EXTENSION II				
(Workshops lasting 1-3 days, preferable organized in the afternoon, to facilitate the attendance)				
<ul style="list-style-type: none"> • EXT.2A: Career development • EXT.2B: Communication and project management • EXT.2C: Scientific entrepreneurship • EXT.2D: Responsible research (2): research integrity 				
M4. INTEGRATED LABS II				
<ul style="list-style-type: none"> • extended lab rotations in the lab tutoring the TFM 				
30/10				
31/10				
01/11				
02/11				
03/11				
06/11				
07/11				
08/11				
09/11	HOLIDAY			
10/11				
13/11				
14/11				
15/11				
16/11				
17/11				
20/11				
21/11				
22/11				
23/11	14:00-18:00	EXT.2A: Professional development and job interview	Yolanda del Río (Neopersona)	CIB + ONLINE
24/11	12:00-13:00	MISB FRONTIERS: Constructing minimal cells that can evolve	Christophe DANELON (TU-Delft)	ONLINE
27/11	12:00-13:00	MISB FRONTIERS: Automated Glycan Assembly Enables the Glycosciences	Peter H. SEEBERGER Max-Planck Institute for Colloids, Potsdam, Germany	CIB
28/11	10:00-14:00	EXT.2A: Professional development and job interview	Yolanda del Río (Neopersona)	CIB + ONLINE
29/11				
30/11	14:00-18:00	EXT.2A: Professional development and job interview	Yolanda del Río (Neopersona)	CIB + ONLINE

DECEMBER 2023

Day	Hour	Lectures / Activities	Teacher	Room
M2. FRONTIERS II				
M3. EXTENSION II				
(Workshops lasting 1-3 days, preferable organized in the afternoon, to facilitate the attendance)				
<ul style="list-style-type: none"> • EXT.2A: Career development • EXT.2B. Communication and project management • EXT.2C: Scientific entrepreneurship • EXT.2D: Responsible research (2): research integrity 				
M4. INTEGRATED LABS II				
<ul style="list-style-type: none"> • extended lab rotations in the lab tutoring the TFM 				
01/12				
04/12	10:00-13:00	MISB FRONTIERS: XXX (RD) / Essential physiological processes (division) in a genomically minimal cell (JP)	Rumiana DIMOVA (MPI-Colloids; Postdam) James PELLETIER (CNB)	ONLINE
06/12	HOLIDAY			
07/12				
08/12	HOLIDAY			
11/12				
12/12	15:30-17:30	EXT.2C: Scientific entrepreneurship: How to create an EBT	Francisco J. Fernández / Alberto Hernández	CIB + ONLINE
13/12				
14/12				
15/12				
18/12				
19/12				
20/12				
21/12				
22/12				
HOLIDAYS: 23/12/2023 – 07/01/2024				

JANUARY 2024

Day	Hour	Lectures / Activities	Teacher	Room
M2. FRONTIERS II				
M3. EXTENSION II				
(Workshops lasting 1-3 days, preferable organized in the afternoon, to facilitate the attendance)				
<ul style="list-style-type: none"> • EXT.2A: Career development • EXT.2B: Communication and project management • EXT.2C: Scientific entrepreneurship • EXT.2D: Responsible research (2): research integrity 				
M4. INTEGRATED LABS II				
<ul style="list-style-type: none"> • extended lab rotations in the lab tutoring the TFM 				
08/01				
09/01	15.30-17.30	EXT.2C: Workshop Scientific entrepreneurship: How to create an EBT	Francisco J. Fernández / Alberto Hernández	CIB + ONLINE
10/01				
11/01				
12/01				
15/01				
16/01				
17/01				
18/01				
19/01				
22/01	16:00-17:30	EXT.2D: Responsible research: Ethics in Synthetic Biology	Lluís Montoliu	CIB + ONLINE
23/01				
24/01				
25/01	15.30-17.30	EXT.2C: Workshop Scientific entrepreneurship: How to create an EBT	Francisco J. Fernández / Alberto Hernández	CIB + ONLINE
26/01				
29/01				
30/01				
31/01				

FEBRUARY 2024

Day	Hour	Lectures / Activities	Teacher	Room
M2. FRONTIERS II				
M3. EXTENSION II				
(Workshops lasting 1-3 days, preferable organized in the afternoon, to facilitate the attendance)				
<ul style="list-style-type: none"> • EXT.2A: Career development • EXT.2B: Communication and project management • EXT.2C: Scientific entrepreneurship • EXT.2D: Responsible research (2): research integrity 				
M4. INTEGRATED LABS II				
<ul style="list-style-type: none"> • extended lab rotations in the lab tutoring the TFM 				
01/02				
02/02				
05/02				
06/02				
07/02	14:00-18:00	EXT.2C: Scientific entrepreneurship: Workshop First steps in entrepreneurship (Fundación DRO)	Several teachers	CIB + online
08/02	14:00-18:00	EXT.2C: Scientific entrepreneurship: Workshop First steps in entrepreneurship (Fundación DRO)	Several teachers	CIB + online
09/02				
12/02				
13/02				
14/02				
15/02	15.30-17.30	EXT.2C: Workshop Scientific entrepreneurship: How to create an EBT	Francisco J. Fernández / Alberto Hernández	CIB + online
16/02				
19/02				
20/02				
21/02				
22/02	10:00-13:00	EXT.2C: Scientific entrepreneurship: Business plan pitch	Francisco J. Fernández / Alberto Hernández (coord.)	CIB + online
23/02				
26/02				
27/02				
28/02				
29/02		GRADE REPORTS – SEMESTER 1		

SEMESTER 2 (03/2024 – 07/2024)

M2. FRONTIERS II (4-6 seminars & 2 workshops)

M5: TFM

28/06/2024: GRADE REPORTS SEMESTER 2

15/07/2024: GRADE REPORTS TFM

MARCH 2024				
Day	Hour	Lectures / Activities	Teacher	Room
M2. FRONTIERS II				
M5. TFM				
04/03				
05/03				
06/03				
07/03				
08/03				
11/03				
12/03				
13/03				
14/03				
15/03				
18/03				
19/03				
20/03				
21/03				
22/03				
HOLIDAYS: 25/03/2024 – 31/03/2024				

APRIL 2024

Day	Hour	Lectures / Activities	Teacher	Room
M2. FRONTIERS II				
M5. TFM				
01/04				
02/04				
03/04				
04/04				
05/04				
08/04				
09/04				
10/04				
11/04				
12/04		MISB FRONTIERS – Jan van HEST		CIB
15/04				
16/04				
17/04				
18/04				
19/04				
22/04		MISB FRONTIERS – Wilhelm HUCK		ONLINE
23/04				
24/04				
25/04				
26/04				
29/04				
30/04				

MAY 2024

Day	Hour	Lectures / Activities	Teacher	Room
M2. FRONTIERS II				
M5. TFM				
01/05		HOLIDAY		
02/05		HOLIDAY (Madrid)		
03/05				
06/05				
07/05				
08/05				
09/05				
10/05				
13/05				
14/05				
15/05		HOLIDAY (Madrid)		
16/05				
17/05				
20/05				
21/05				
22/05				
23/05				
24/05				
27/05				
28/05				
29/05				
30/05				
31/05		MISB FRONTIERS – Barbara DI VENTURA		CNB

JUNE 2024

Day	Hour	Lectures / Activities	Teacher	Room
M2. FRONTIERS II M5. TFM				
03/06				
04/06				
05/06				
06/06				
07/06				
10/06				
11/06				
12/06				
13/06				
14/06				
17/06				
18/06				
19/06				
20/06				
21/06				
24/06		TFM		
25/06		TFM		
26/06		MISB CLOSING LECTURE – TOBIAS ERB		
27/06				
28/06		GRADE REPORTS – SEMESTER 2		

JULY 2024

Day	Hour	Lectures / Activities	Teacher	Room
M5. TFM				
01/07				
02/07				
03/07				
04/07				
05/07				
08/07				
09/07				
10/07				
11/07				
12/07				
15/07	GRADE REPORTS - TFM			