What is MCIB?

- MCIB is a research school co-organized by the Spanish Research Council (CSIC) and the International University Menéndez Pelayo (UIMP) to provide advanced training in molecular and cellular life sciences to graduate students in a cutting-edge scientific environment.
- MCIB is a pioneer in-house research training experience at CSIC centers, stem from the Centro de Investigaciones Biológicas (CIB) – the hub of MCIB - as a collective higher-education action of CSIC scientists, bringing together a wide range of expertise and know-how.
- This training portfolio has recently been fostered by the active participation of scientists from other CSIC centers, for example, the Rocasolano Phys. Chem. Institute (IQFR) and the Institute of Food Science, Technology, and Nutrition (ICTAN).
What is MCIB?

- This novel concept will allow the students to be exposed to the scientific activities developed in-house, based on the synergies among research programs on structural, molecular, cellular, chemical and synthetic biology, that apply front-line technologies to study essential processes and systems with environmental and/or medical relevance.

- This integrated research program aims at elucidating fundamental principles of biological function and at providing novel tools to improve quality of life.

- MCIB is inspired in the Max Planck International Research School for Molecular Life Sciences established at the MP campus nearby Munich (https://imprs-ls.opencampus.net/).
MCIB Program Structure and Timing

- MCIB will run during 3 academic semesters, starting in October until March of the second year.
- It comprises 90 ECTS credits, organized in 3 academic modules (60 ECTS) and a master research project (30 ECTS).
- MCIB will adopt an innovative format in which the students will progress rapidly from intensive course instruction to research in their projects.
- Most of MCIB activities will be in English.
## CSIC-UIMP Master in Molecular and Cellular Integrative Biology

<table>
<thead>
<tr>
<th>MCIB modules</th>
<th>ECTS</th>
<th>S1</th>
<th>S2</th>
<th>S3</th>
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<tbody>
<tr>
<td><strong>M1 – MCIB FUNDAMENTALS</strong></td>
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<td>M1A: Research Topics</td>
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<td>M1B: Advanced Methods</td>
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<tr>
<td>• 3DMOLBIOCHEM: Structural, Molecular &amp; Chemical Biology</td>
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<td>• CELLBIOMED: Cell Biology and Biomedicine</td>
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<td>• BIOTEC: Molecular and Systems Biotechnology</td>
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<td>M1C: Lab Rotations. 3 one-week rotations in labs working on the 3 MCIB research programs (M1AB)</td>
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<td><strong>M2 – MCIB FRONTIERS</strong></td>
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<td>• Advanced seminars and workshops</td>
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<td><strong>M3 – MCIB EXTENSION</strong></td>
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<td>• Lectures / workshops on scientific writing and presentation, career development, technology transfer, leadership and communication, etc.</td>
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<td><strong>M4 – MCIB MASTER RESEARCH PROJECT (TFM)</strong></td>
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<td>• TFM: The general interdisciplinary training provided by M1-M3 will be completed with a degree of specialization at the master research project</td>
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MCIB III (2018-20) Abbreviated Program

October - November 2018

M1 – MCIB FUNDAMENTALS: Research Topics / Advanced Methods / Lab Rotations (part 1)


- 3DMOLBIOCHEM lab rotations

M2 – MCIB FRONTIERS: Advanced seminars. TBA: to be announced at the beginning of the academic course.

December 2018

- M1: EXAM 3DMOLBIOCHEM
- M2: MCIB FRONTIERS - Advanced seminar + workshop 1 (TBA)
MCIB III (2018-20) Abbreviated Program

January - February 2019

M1 – MCIB FUNDAMENTALS: Research Topics / Advanced Methods / Lab Rotations (part 2)

- CELLBIOMED lab rotations
- EXAM CELLBIOMED (second half Feb)

M2 – MCIB FRONTIERS: Advanced seminars (TBA)
MCIB III (2018-20)Abbreviated Program

February - March 2019

M1 – MCIB FUNDAMENTALS: Research Topics / Advanced Methods / Lab Rotations (part 3)

- BIOTECH lab rotations
- EXAM BIOTECH (end March).

M2 – MCIB FRONTIERS: Advanced seminars (TBA).
MCIB III (2018-20) Abbreviated Program

April - June 2019

- **TFM: lab selection** (first half April; immediate incorporation), **writing of mini-review** on TFM research topic (as part of M2 / M3; to be submitted in June).
- **M2 – MCIB FRONTIERS**: Advanced seminars + **workshops 2 and 3** (TBA).

July 2019 - March 2020

- **TFM research project**
- **TFM dissertation** (ordinary call: Feb 2020; extraordinary call: June 2020)