

DESCRIPTION OF THE SUBJECT

**Degree/Master in:** Master's in MOLECULAR AND CELLULAR BIOLOGY by the University of Málaga  
**Centre:** Faculty of Science  
**Subject:** PROGRESS IN MOLECULAR AND CELLULAR BIOLOGY  
**Code:** 111  
**Type:** Compulsory  
**Materia:** PROGRESS IN MOLECULAR AND CELLULAR BIOLOGY  
**Module:** PROGRESS IN MOLECULAR AND CELLULAR BIOLOGY  
**Modality:** Theoretical  
**Language:** Spanish  
**Year:** 1  
**Semester:** 2  
**Nº of ECTS:** 5  
**Nº of hours of work by student:** 125  
**Size of the Big Group:** 0  
**Size of the Reduce Group:** 0  
**Website of the subject:** [https://www.uma.es/master-en-biologia-celular-y-molecular/?set\\_language=en](https://www.uma.es/master-en-biologia-celular-y-molecular/?set_language=en)

TEACHERS

**Department:** MOLECULAR AND CELLULAR BIOLOGY  
**Area:** BIOCHEMISTRY AND MOLECULAR BIOLOGY

Name	Mail	Work phone	Office	Tutoring hours
FRANCISCO MIGUEL CÁNOVAS RAMOS	canovas@uma.es	952132358		During the entire course: Wednesdays: 11:30 – 12:30. Second semester: Mondays: 11:30 – 12:30, Tuesdays: 11:30 – 12:30
FRANCISCO MANUEL CAZORLA LÓPEZ	cazorla@uma.es	952127587	DMb1 Dpto. Microbiología (Módulo de Biología, planta 1) - FAC. DE CIENCIAS	During the entire course: Mondays: 12:30 - 14:00, Fridays: 12:30 - 13:30, Wednesdays: 16:00 - 17:30, Wednesdays: 12:30 - 14:00, Tuesdays: 12:30 - 14:00
MARIA ANGELES REAL AVILES	mra@uma.es	952137514	DBCGB0 Dpto. Biología Celular, Genética y Fisiología (Módulo de Biología, planta 0) - FAC. DE CIENCIAS	During the entire course: Wednesdays: 12:30 – 14:30, Mondays: 15:30 – 17:00, Mondays: 12:00 – 13:30, Thursdays: 13:30 – 14:30

RECOMMENDATIONS AND ORIENTATIONS

Compulsory subject for everyone who has been admitted and enrolled in the Master's degree.

## CONTEXT

It is an integrative subject that aims to bring together the different specialisations in Biology, showing that at present the interrelation between the different disciplines is very intense in any field related to Cell and Molecular Biology.

## COMPETENCES

### Specific Competences

- 1.1 Development of the ability to assimilate advanced concepts by attending a series of scientific lectures given by experts in both Spanish and English.
- 1.2 Design and public presentation of a research project or the Master's dissertation project.
- 1.3 Development of the ability to participate actively in scientific sessions.

## CONTENT OF THE SUBJECT

### Cell and Molecular Biology Seminars and Conferences

The first activity is approached through the programming of a series of seminars with invited lecturers, who are scientists of relevant prestige in the different fields of research in Cellular and Molecular Biology.

1. Current Topics in Developmental Biology.
2. Current topics in Biomolecular Engineering.
3. Current topics in Microbiology.
4. Current topics in Systems Biology.
5. Current Topics in Neurobiology.

The contents of the lecture series will logically vary according to the speakers for each course.

### Cell and Molecular Biology Conference

The second activity is basically concentrated in the celebration of the so-called Cellular and Molecular Biology Conferences, at the end of the first year of the Master's programme (June), in which, for 2-3 days, all the lecturers and students of the programme, meet and discuss. At these meetings, students formally present their Master's Dissertation and Doctoral Dissertation Projects (oral communication in a Congress format) to professors and fellow students, which are submitted for discussion and receive suggestions on their approach and future development.

## TRAINING ACTIVITIES

### Face-to-face activities

#### Exhibition activities

Masterclass, Conferences and Seminars with invited researchers.

Other exhibition activities, Cellular and Molecular Biology Conference

## ASSESSMENT ACTIVITIES

### LEARNING RESULTS / ASSESSMENT CRITERIA

This subject aims, on the one hand, to update students on current topics in Cellular and Molecular Biology, and on the other, to help them to specify and design the objectives, methodology and work plans of what will constitute their Master's Dissertation project and their future Doctoral Dissertation, within the framework of the interaction and integration of the different biological disciplines, which is the fundamental objective of the programme.

The first activity is addressed through the programming of a series of seminars with guest lecturers, who are scientists of relevant prestige in the different fields of research in Cellular and Molecular Biology.

The second activity is basically concentrated in the celebration of the so-called Cellular and Molecular Biology Conferences, at the end of the first year of the Master's programme (June), in which, for 2-3 days, all the lecturers and students of the programme, meet and discuss. At these meetings, students formally present their Master's Dissertation and Doctoral Dissertation Projects (oral communication in a Congress format) to professors and fellow students, which are submitted for discussion and receive suggestions on their approach and future development.

In short, students will obtain a global and general overview of the latest advances in the field of Cellular and Molecular Biology. They will also be able to situate their future dissertation and/or doctoral dissertation in this context. At the same time, they will improve their ability to present and discuss their scientific results.

## ASSESSMENT PROCEDURE

### Assessment procedure

The evaluation procedure will consist of two sections:

**Section A.** Continuous assessment of attendance and participation in the seminars of the course. This will account for 25% of the final grade.

**Section B.** The student will give an oral presentation related to his/her dissertation topic in the framework of the Cellular and Molecular Biology Conferences that will be held every June. Attendance and participation in these conferences in their entirety is also a requirement for passing this subject. Their presentation will be evaluated by the three lecturers assigned to the subject and will account for 75% of the final grade.

In order to pass the subject, you need to obtain at least a 5 (out of 10) in section B.

In the second ordinary exam (September exam), as the aforementioned conferences are not held, the student will have to give an oral presentation similar to that of the first ordinary exam before at least the three lecturers of the subject, and answer the questions posed about this presentation, as well as about the seminars given during the course. You will also need at least a 5 to pass. The mark for section A will be maintained in this second sitting.

## BIBLIOGRAPHY AND OTHER SOURCES

### Basic

A general bibliography is not recommended, but a specific bibliography for each student.

## DISTRIBUTION OF STUDENT'S WORK

### FACE-TO-FACE TRAINING ACTIVITIES

Description	Hours	Big Group	Reduced Group
Masterclass, Conferences and Seminars with invited researchers.	22	Yes	No
Other exhibition activities, Cellular and Molecular Biology Conference	15.5	Yes	No
<b>TOTAL OF HOURS FACE-TO-FACE TRAINING ACTIVITIES</b>	<b>37.5</b>		

### NON-FACE-TO-FACE TRAINING ACTIVITIES

<b>TOTAL OF HOURS NON-FACE-TO-FACE ACTIVITIES</b>	<b>75</b>
<b>TOTAL OF HOURS OF EVALUATION ACTIVITIES</b>	<b>12.5</b>
<b>TOTAL OF HOURS OF STUDENT'S WORK</b>	<b>125</b>

ADAPTATION TO VIRTUAL MODE DUE TO COVID19

**Formation activities**

**Scenario A:** less face-to-face academic activity.

Conferences and seminars: Hybrid system, preferably with face-to-face seminars, but teaching will also be combined with online seminars (webinars).

In face-to-face conferences, the safety distance will be kept according to the availability of classroom space, provided by the University of Málaga.

The Cellular and Molecular Biology Conferences will preferably be held face-to-face, keeping the safety distance.

Other virtual interaction platforms can also be used.

**Scenario B:** Suspension of the face-to-face activity.

Conferences and seminars: They will be held online (webinars).

The Cell and Molecular Biology Conference will be held telematically.

**Assessment procedure**

**Scenario A**

The assessment procedure applied will be the described for face-to-face teaching

**Scenario B**

The assessment procedure applied will be the described for face-to-face teaching considering attendance and participation in online seminars (webinars) and synchronous (online) student presentations.

**Tutorials**

Tutorials will be online, either synchronously or via e-mail.