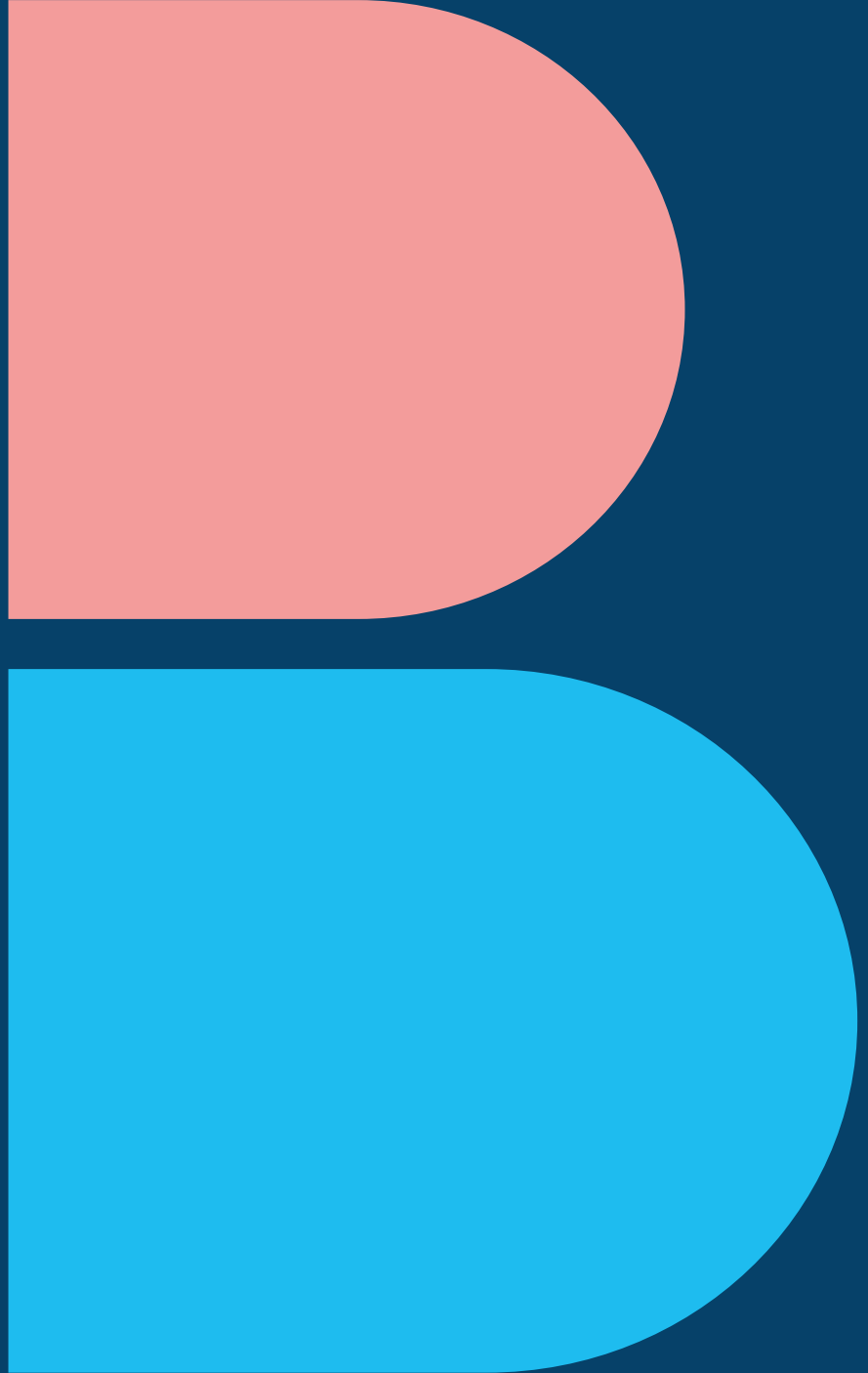


BIOMEDICAL  
SCIENCES



# BACHELOR'S DEGREE IN Biomedical Sciences

For more information about  
grants and financial aid visit:

[uic.es/grants](http://uic.es/grants)

## EXCHANGE UNIVERSITIES



### North America 5 agreements

- University of California, Berkeley (Summer Sessions)
- University of California, Los Angeles (UCLA) Extension
- Boston University (Summer Program)
- University of Pennsylvania
- University of California

### South America 5 agreements

- Pontifical Catholic University of Rio Grande do Sul (PUCRS), Brazil
- Universidad de Monterrey, Mexico
- Universidad de Talca, Chile
- Universidad Icesi, Colombia
- Universidad San Francisco de Quito, Ecuador

### Europe 22 agreements including:

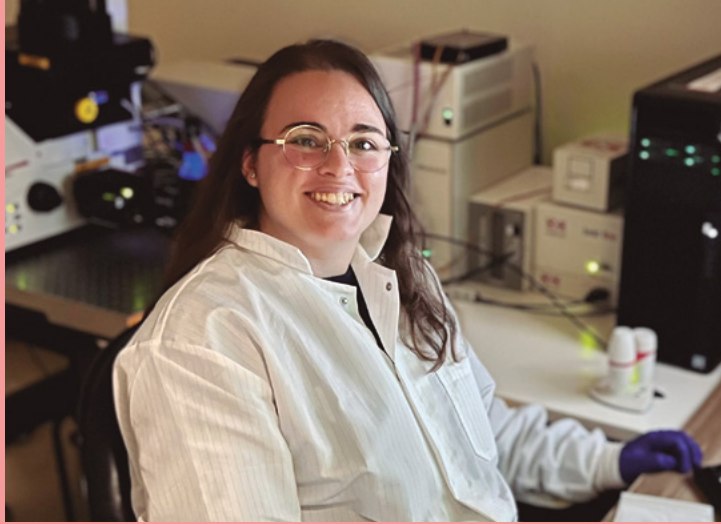
- University of Liège, Belgium
- University of Mons, Belgium
- Leiden University of Applied Sciences, Netherlands
- Saxion University of Applied Sciences, Netherlands
- Università Campus Bio-Medico di Roma, Italy
- Northumbria University, UK
- University of Beira Interior, Portugal
- University of Catania, Italy
- University of Turin, Italy
- Heidelberg University, Germany
- KU Leuven University, Belgium
- University of Antwerp, Belgium
- FH Münster University, Germany
- University of Stuttgart, Germany
- University of Coimbra, Portugal
- University of Birmingham, UK
- International Institute of Molecular and Cell Biology in Warsaw, Poland

### Asia 3 agreements

- Saint-Joseph University of Beirut, Lebanon
- Kawasaki Institute for Industrial Promotion: Innovation Center of NanoMedicine, Japan
- Seoul Women's University, Korea

CONSULT ALL  
OUR INTERNATIONAL  
AGREEMENTS

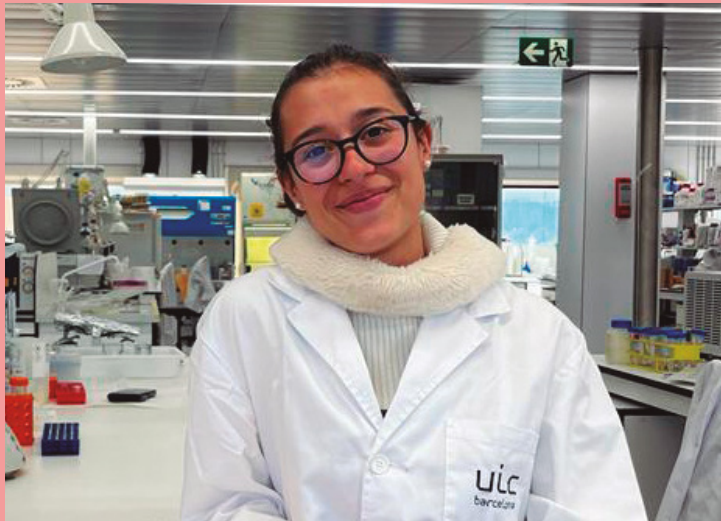




*“About the bachelor’s degree programme, I would highlight the possibility of doing training practices abroad since this allowed me to grow on a personal and professional level, and work in the U.S. and have contact with researchers from other parts of the world.”*

**SARA CREUS**

Former student,  
Bachelor’s Degree in  
Biomedical Sciences

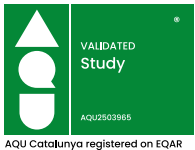


*“On studying Biomedical Sciences at UIC Barcelona, I would point out the option available to do different majors within the degree programme that allow you to go further in the areas of research, business or bioinformatics.”*

**AINA REDONDO**

Student,  
Bachelor’s Degree in  
Biomedical Sciences

Discover the field that combines biology and medicine. With this bachelor's degree you will be able to delve into pathology research, basic biological knowledge transfer to the business world and disease diagnosis, as well as learning about the latest technology used in the field of biomedicine. The future is in your hands.



## PROSPECTIVE STUDENTS

If you are a working professional who wants to combine research training with the necessary management skills to transfer knowledge from the laboratory to the patient, this is the degree programme for you.

## PROFESSIONAL OPPORTUNITIES

In the final academic year, you can focus on one of three specialisations (**Biomedical Research, Bioinformatics or Biomedical Companies**) and boost your chances of entering the working world.

And, if you want to continue studying biomedicine, you can complement your studies with the official Master's Degree in Experimental Biomedical Research (60 ECTS) and gain access to the doctoral research programme.

## WORK PLACEMENT AGREEMENTS

**Over 40 agreements with work placement centres, and more than 40 with companies in the field of biomedicine.**

You will carry out work placements in our research laboratories from year one and work with state-of-the-art instruments in small groups.

In the fourth academic year, you'll be able to do your work placement in leading international research centres:

**Catalan Institute of Oncology, IRB Barcelona, IBEC, Roche, Boehringer Ingelheim, Biomedical Research Park Barcelona, Echevarne, Ferrer, CRG, Barcelona Supercomputing Centre, IDI BAPS, etc.**

## MULTIDISCIPLINARY AND CROSS-CURRICULAR EDUCATION

You'll be supported by a team of researchers, teachers and professors from the Faculty of Medicine and Health Sciences, as well as professionals from renowned research centres in Barcelona with years of experience and international prestige. You'll also have the chance to learn about scientific dissemination with classes in Scientific English, and broaden your chances of finding your dream job.

## A STRONG INTERNATIONAL FOCUS\*

We offer our students the chance to undertake external work placements in renowned international research labs, such as:

- Aarhus University, Denmark
- Leiden University, The Netherlands
- Heidelberg University Hospital, Germany
- Innovation Center of NanoMedicine, Japan
- Lund University, Sweden
- Dana-Farber Cancer Institute, Boston - USA

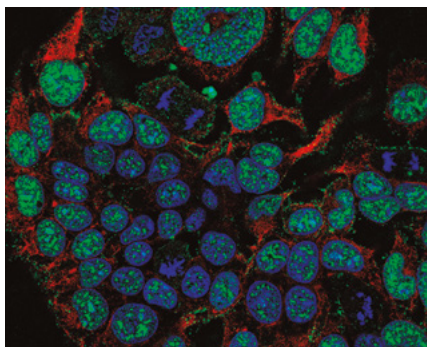
Moreover, UIC Barcelona and the prestigious **University of California, Los Angeles (UCLA Extension)** offer you the chance to complement your studies in the United States. Live the American experience and study the **Certificate Programme in Project Management**, equivalent to a postgraduate degree in Spain.

**MORE THAN 50% OF CREDITS ARE TAUGHT IN ENGLISH**

**MORE THAN 750 HOURS OF LAB WORK PLACEMENTS STARTING FROM YEAR ONE**



\*Availability may vary from year to year and laboratories may require you to complete an entrance examination.



# RESEARCH GROUPS

## Cancer Biology

**Dr Roni Wright**  
Ramon y Cajal Grant Recipient

## Computational Biology (Genomics)

**Uciel Pablo Chorostecki**  
Ramon y Cajal Grant Recipient

## Atypical Cycline Laboratory (Cancer, Cell Metabolism)

**Dr Josep Clotet**

## Fundamental Mechanisms in Cellular Biology (Cancer)

**Dr Javier Jiménez**

## Synaptic Plasticity Laboratory (Neuroscience)

**Dr Miquel Bosch**

## Iron Metabolism Research Group (Genetics)

**Dr Mayka Sánchez**

## Neurolipids Group (Endocrinology, Neurometabolism)

**Dr Núria Casals and Dr Rosalía Rodríguez**

# CURRICULUM

The curriculum will undergo some changes that will not affect the general content of the degree. You can consult the update at: [uic.es/foleto-grad](http://uic.es/foleto-grad) or on the degree's website.

8 SEMESTERS – 240 ECTS  
SANT CUGAT CAMPUS  
SPANISH, CATALAN AND ENGLISH  
FROM SEPTEMBER TO JUNE

1	ECTS	SEMESTER 1	ECTS	SEMESTER 2
	6	Biochemistry I	6	Anthropology
	6	Cell Biology I	6	Genetics
	6	Molecular Biology	3	Microbiology
	6	Structure and Function of the Integration Systems: Nervous and Endocrine	6	Cell Biology II
	6	Laboratory Fundamentals of Biomedical Science	3	Immersion in Biomedicine
	30	<b>Subtotal</b>	3	Integrated Biomedicine I
			3	Work Placements in Molecular Biology, Cell Biology and Biochemistry
			30	<b>Subtotal</b>

2	ECTS	SEMESTER 1	ECTS	SEMESTER 2
	6	Body Structure and Function: Systems Digestive and Reproductive	6	Biostatistics
	6	Immunology	6	Physics of Biological Systems
	6	Biochemistry II	6	An Introduction to Bioinformatics
	6	An Introduction to Biomedical Companies	3	Genetic Engineering and Modelling Experimentation
	3	Body Structure and Function: Musculoskeletal System	3	Integrated Biomedicine II
	3	Developmental Biology	6	Ethics
	30	<b>Subtotal</b>	30	<b>Subtotal</b>

3	ECTS	SEMESTER 1	ECTS	SEMESTER 2
	9	Body Structure and Function: Cardiovascular, Respiratory and Renal Systems	6	Systems Pathophysiology
	6	Biomedical Analytical Techniques I	6	Pharmacology
	3	Cancer Biology	3	Biomedical Analysis Techniques II
	3	Clinical Genetics	3	Clinical Biochemistry
	3	Pathophysiology of the Nervous System	3	Bimolecular interaction
	3	Entrepreneurship and Innovation	3	Cultural Foundations I
	3	Clinical Microbiology	3	Cultural Foundations II
	30	<b>Subtotal</b>	3	Integrated Biomedicine III
			30	<b>Subtotal</b>

4	ECTS	SEMESTER 1	ECTS	SEMESTER 2
	3	Psychobiology	20	Electives
	3	Nutrition	10	Final Degree Project
	3	Toxicology	30	<b>Subtotal</b>
	3	Epidemiology		
	18	Electives Mention		
	30	<b>Subtotal</b>		

## AT UIC BARCELONA, YOU CAN SPECIALISE THANKS TO THREE MAJORS: BIOMEDICAL RESEARCH, BIOMEDICAL BUSINESS OR BIOINFORMATICS.

### Electives to choose for the Biomedical Research specialisation\*\*

- Laboratory Work Placements in Biomedical Research
- Product Development in the Pharmaceutical Industry
- R+D+I Project management
- R+D+I Dissemination
- Biological Databases
- Alternative Models to Animal Testing
- Nanomedicine
- Clinical Trials in Biomedicine: from Research to Clinical Practice

### Electives to choose for the Biomedical Business Management specialisation\*\*

- Product Development in the Pharmaceutical Industry
- Business Management
- Fundamentals of Intellectual Property
- Marketing in the Biomedical Industry
- R+D+I Project Management
- R+D+I Dissemination
- Work Placements in Biomedical Businesses
- Clinical Trials in Biomedicine: from Research to Clinical Practice

### Electives to choose for the Bioinformatics specialisation\*\*

- Biological Databases
- Structural Bioinformatics
- Programming Skills (Python + R)
- Artificial Intelligence I: Key Concepts and Techniques
- Artificial Intelligence II: Application to Healthcare
- Bioinformatics for Omics
- External Internship in Bioinformatics

\*\*The availability of these optional subjects will depend on the number of students enrolled.

# ABOUT UIC BARCELONA

Since 1997,  
we have been committed  
to impacting society.

Our mission is to train people who contribute to humanising the transformation of society through professional excellence, the pursuit of impact, integrity and social commitment.

We offer 16 bachelor's degrees, 45 international double degrees and more than 70 master's and postgraduate courses to a community of around 9,000 students.

We have eight faculties located on two campuses, in Barcelona and Sant Cugat del Vallès.

We believe in lifelong learning, offering a personalised service, a comprehensive approach focused on each

student, continuous professional connection and innovation in teaching and research methods.

We have a strong international character, and our campuses are home to people from over a hundred different nationalities.

We are connected to society and businesses through fifteen chairs and five business classrooms, five research institutes and three university clinics.

**WE ARE  
A HUMANISTIC,  
SUSTAINABLE,  
INNOVATIVE AND  
GLOBAL UNIVERSITY,  
AND WE ARE  
WELL-POSITIONED  
IN THE MAIN  
NATIONAL AND  
INTERNATIONAL  
RANKINGS.**

## RANKINGS

The main rankings in which the Universitat Internacional de Catalunya has been classified.

 **World University Rankings 2025**  
#801-1,000



#374

 **RANKING  
CYD**  
#13



FIND OUT HERE  
ABOUT ALL  
OUR RANKINGS

# UNIVERSITARY LIFE

Experience the best university experience at UIC Barcelona.

Studying at UIC Barcelona involves all-round personal growth.

We promote solidarity, culture and sporting values.



## STUDENT SERVICES

At Student Services, we facilitate students' integration into the university system.

**We will provide you with information about extracurricular activities, grants, your university student card, etc.**

If you need accommodation during your time at the university, the Student Service team will guide you on student residences, accommodation and other services, depending on your needs. We are part of the Barcelona Centre Universitari (BCU), the official welcome and guidance service for the students and university teachers and researchers who come to Barcelona. On the BCU's website you will find information about all kinds of accommodation in Barcelona and the surrounding area.

**At Student Services, we will try to answer your questions and encourage you to take part in as many activities as possible.**

At UIC Barcelona we promote and organise sports activities and competitions, and we provide discounts and special offers to help you access sports facilities to keep you in shape and live healthier lives. We also have the **Sport Talent programme**, so that top-level athletes can combine professional sport with their university studies.

You can take an active part in **#UICSocialDay** a day on which the whole University comes together to help those most in need. You can also form part of theatre, painting and music groups, which foster **the cultural side of UIC Barcelona and help you acquire more skills and values.**

## AN INTERNATIONAL EXPERIENCE

UIC Barcelona's international commitment is evident in the very name of our University, and encompasses every single one of our activities. We are open to the world, which is clear from our wide range of international agreements and mobility programmes for students, teaching staff and researchers.

**We have around forty international double degrees.**

At UIC Barcelona, English is the vehicular language on some degree programmes, and you will have to chance to partake in many activities with the international community.

## MENTORING AND COACHING

**Boost Your Talent** is the personal development and mentoring programme of UIC Barcelona, designed to accompany you in your growth during your studies.

The goal is to help you better understand your skills, identify your strengths and areas of improvement, and be able to certify them once you have finished the degree.

With this programme, you will have the support of a personal mentor who will accompany you on your journey to maximise your talent and harness your full potential.

**Furthermore, if at the end of your studies you decide to continue with a master's or postgraduate degree at the University, you can benefit from a coaching process to help you define your next steps.**

## CHAPLAINCY

The chaplaincy offers a space for **reflection, dialogue and transcendence** where activities open to the entire university community are held.

## LINGUISTIC SERVICES

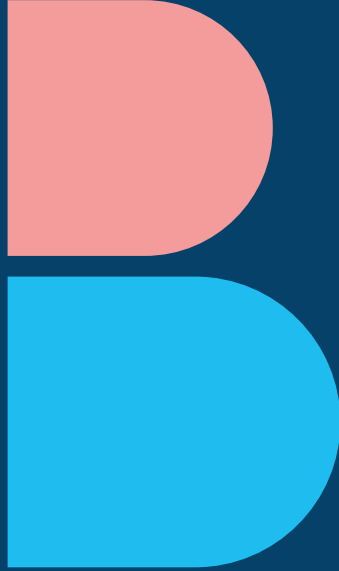
At UIC Barcelona you have the opportunity to study several languages, both face-to-face and online, and you can accredit your level of Catalan with official certificates, as well as take part in welcome and language promotion activities.

## ALUMNI AND CAREERS

Once you have completed a diploma, degree, postgraduate, clinical residency, master's degree or doctorate at UIC Barcelona, you will become part of **Alumni, an international community of over 28,000 people.**

At UIC Barcelona, we believe that being a university student is a way of life and a way of seeing the world, and **at Alumni, these values continue to be part of your life.** Our aim is to promote training and professional guidance and maintain the link with the community through reunion activities.

The Careers Service offers you a **comprehensive advice service for job placement** aimed at students and alums.



Get in touch with your advisor



**Sant Cugat Campus**

Josep Trueta, s/n  
Hospital Universitari General  
de Catalunya Building  
08195 Sant Cugat del Vallès  
T. +34 935 042 000

