



Faculty of Sciences
University of Chile

PhD in Sciences

Molecular and Cellular Biology and Neurosciences

Accreditation

The program was awarded the maximum accreditation time of 8 years (2013 – 2021) by the National Accreditation Agency (CNA-Chile).

Contact

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<https://www.uchile.cl/postgrados/6270/cienciascon-mencion-en-biologia-molecular-celular-y-neurociencias>

Our program

Founded in 1970, the Ph.D. program in Sciences, mention in Molecular and Cellular Biology and Neurosciences (MCBN), has graduated over 190 PhDs who successfully work in Universities, research centers, and companies in Chile and abroad. The program provides solid training in experimental Biology covering the fundamental aspects of Molecular Biology, Cellular Biology, Structural Biology, and Neuroscience. The list of our program faculty is large and diverse. It comprises 32 researchers who work in the most varied areas of experimental biology.

Academic Program

The MCBN program is designed to provide the student with a basic theoretical knowledge on experimental biology and a fast entry into the thesis work.

1st semester

Core Course
Research Unit I

2nd semester

Qualification Exam
Research Unit II
Elective course I

3rd semester

Defense of Thesis Project
Elective Course II

3rd- 7th semester

Thesis work

8th semester

Thesis defense and graduation

Graduates obtain a PhD in Sciences, mention in Molecular and Cellular Biology and Neuroscience Degree. Our graduates are fully trained to perform independent research and successfully insert into laboratories and research centers of the highest level anywhere in the world.

Faculty Members

Julio Alcayaga · Sensorial and Cell Physiology
Miguel Allende · Developmental Biology
Oswaldo Alvarez · Biophysics of Ion Channels
Jorge Babul · Protein Structure
María Rosa Bono · Cellular Immunology
Ricardo Cabrera · Structural Molecular Microbiology
Victor Castro · Protein Evolution · X-ray Crystallography
Francisco Chávez · Microbiology
Christian González · Molecular and Cell Biology of the Neuron
Mauricio González · Functional Genomics
Victoria Guixé · Enzyme Evolution of Extremophiles
Nicolás Guiliani · Microbiology of Extremophiles
Alvaro Glavić · Developmental Biology
Michael Handford · Plant Molecular Biology
Cecilia Hidalgo · Cell Physiology
Rosalba Lagos · Molecular Microbiology
Juan Carlos Letelier · Neurobiology
Jorge Mpodozis · Sensory Neuroetology
Octavio Monasterio · Microbiology and Molecular Structural Biology
Alexia Núñez · Sensorial Physiology
Marco T. Nuñez · Cell Biology and Neurodegeneration
Lorena Norambuena · Plant Cell Biology and Development
Verónica Palma · Stem Cell Biology
Mario Roseblatt · Dendritic Cell Biology
Alejandro Roth · Cell Biology of Neuroglia
Magdalena Sanhueza · Neuronal Plasticity
Daniela Sauma · Cancer Immunology
Eliás Utreras · Neurobiology of Pain
Cecilia Vergara · Cell Physiology
Claudia Stange · Plant Molecular Biology
Alexander Vargas · Evolution and Development
Ursula Wyneken · Neuroscience

Director: Lorena Norambuena
Academic Committee: Victoria Guixé, Jorge Mpodozis, Lorena Norambuena, Verónica Palma, Daniela Sauma, Eliás Utreras.

Scholarships

All students are encouraged to apply to the Chilean ANID doctoral scholarship if eligible or any other fellowship available abroad. The academic committee will advise students regarding the applications. In addition, several fellowships are available from the Graduate School of Faculty of Sciences, Universidad de Chile.

Applications

Applicants must provide a certificate of Bachelor or Master of Science Degree or equivalent training, a certificate of undergraduate grades (and Master, if applicable), and two recommendation letters.

All applicants are subject to an admission exam to evaluate the level of scientific knowledge and abilities and personal skills. Applications are reviewed by an academic committee comprising a cross-section of faculty members.



<https://postulacionpostgrado.uchile.cl/>