

Our Graduate Program in Neuroscience is designed to train scientists who can contribute to our understanding of the processes involved in the development, the structure, and the function of the nervous system. The strengths of our Program are in the areas of molecular physiology and biophysics, computational neuroscience, sensory neuroscience, neuronal plasticity and neuropathology, and development and neurogenetics.

### **The Specific Aims of the Program are:**

- 1.- To train scientists capable of actively contributing to the development of Neuroscience.
  
- 2.- To develop capabilities to communicate the value of science both inside and outside the university environment.
  
- 3.- Foster and strengthen collaborations and exchanges between national and international scientists from different areas, from molecular biology to theoretical and applied biology.

For information on Faculty and their research interests, go to “Faculty and Research Areas”.

## PROGRAM OF STUDY

The curriculum of the Program includes a one-year mandatory Core Course and Lab rotations during the first year, and one seminar course per semester. The Core course is composed of 6 modules, some of which may be skipped if they are equivalent to courses taken elsewhere. In addition to these courses, the student must pass a qualifying exam and defend their thesis project during the third semester, and defend their thesis at the end of the Program.

### Semesters I and II

Core Neuroscience course (20 credits)

Research Rotations (8 credits)

Seminar (2 credits per semester)

### Semester III

Thesis Project (33 credits)

Seminar (2 credits)

Semesters IV-VIII

Thesis (171 credits total)

Seminar (2 credits per semester)

### **KEY COMPETENCIES EXPECTED OF GRADUATES FROM OUR PROGRAM**

Upon graduation, the Ph.D. from our Program is expected to:

1.- Have the knowledge and ability to contribute, both theoretically and experimentally, to the development of Neuroscience.

2.- Be able to propose, design, and implement experimental strategies to test hypotheses.

3.- Be able to communicate, interact, and collaborate with foreign scientists.

4.- Have the skills needed to teach and communicate scientific knowledge in different areas.

### **FINANCIAL SUPPORT AND AGREEMENTS**

Chilean and foreign students accepted into our Program are funded for 4 years by available scholarship programs. Our accreditation by CNA (National Accreditation Commission) allows our students to apply for CONICYT scholarships, and historically ~ 70% of those accepted have at some point been funded by CONICYT. The remaining students are funded by MECESUP scholarships, or by scholarships from the Program or from the University of Valparaiso. The guaranteed funding ensures that students can devote full time to the program.

A series of agreements with other post-graduate programs allow students to take elective courses in other universities in Chile and abroad, as well to do research internships. The Doctoral Program has a cooperative agreement with the Scuola Internazionale Superiore di Studi Avanzati (SISSA) of Trieste, Italy ( [www.sissa.it](http://www.sissa.it) ).

### **ADDITIONAL INFORMATION**

Terms: Semesters

## About the Program

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Length: 4-5 years

Course Schedule: Diurnal

Fee: \$ 2,000,000

Address: Gran Bretaña 1111, Playa Ancha, Valparaíso, CHILE

Web page: [www.dnuv.cl](http://www.dnuv.cl)