The Institute of Neurosciences is an intramural research institute of the University of Barcelona, which gathers about 300 researchers located in four university campuses. Director: Carles Escera

We aim to promote research in neurosciences from a global perspective, being the first Institute in the country integrating research lines in neurobiology, neuropharmacology, physiopathology, psychology, psychiatry, clinical psychology, neuropsychobiology and cognitive neurosciences. We study neurosciences including all its approaches and aim to share a unifying vision.

Launched officially in December 2015, the Opening Session of the Institute took place at the Medicine Campus, on the 20th of September, in order to strengthen the synergies between the groups that form the Institute, and to give internal visibility to our research and encourage the exchange of experiences between researchers.

We are especially concerned about training the new generation of neuroscientists. On the 15th of December we organized the first PhD Workshop of the Institute of Neurosciences at Mundet Campus, where master’s degree students and early stage researchers could share their interests.

1 Starting grants

163 Researchers

163 Researchers
15 Early stage researchers
20 Technical and support
6 Collaborations

163 Researchers
15 Early stage researchers
20 Technical and support
6 Collaborations

Gender
176 Women
120 Men

GENDER
176 Women
120 Men

6M€ #34 Neuroscience and Behaviour

90% Competitive funding
85% National
15% International

90% Competitive funding
85% National
15% International

58 Early stage researchers

58 Early stage researchers

61% 1st Quartile publications

61% 1st Quartile publications

1490 Impact Factor

1490 Impact Factor

350 Publications

350 Publications

85% National
15% International

85% National
15% International

10% Non-competitive funding

10% Non-competitive funding

90% Competitive funding
85% National
15% International

90% Competitive funding
85% National
15% International

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ANNUAL REPORT 2016
Research Areas

Neurobiology and Neuropharmacology
- Studies on cells and neural circuits of the nervous system in normal and pathological situations. Research in identifying new therapeutic targets and drugs to treat neurological disorders.

Physiology of Nervous system disease
- Defining the physiopathological mechanisms involved in the loss of functionality, atrophy and neurodegeneration related to these diseases. A deeper understanding of these mechanisms will allow us to develop new preventive strategies to delay or prevent these neurological disorders.

Cognitive Neuroscience and Neuropsychology
- Doing research on the neurobiological substrates underlying cognition aiming to unravel the neural circuits implied in mental processes. Neuropsychology groups focus on the clinical application of this knowledge using neuromaging techniques, genetic studies and cognitive tests.

Cognition, Behaviour and Computation
- Mechanisms of human and animal behaviour underlying different cognitive processes. Computational research and modelling analyses on studies of behavior, cognition and conservation from an evolutionary and comparative perspective.

Clinical and Applied psychology
- Identification, analysis and intervention of human behaviour disorders, both at individual and at group levels. We are especially concerned with psychological problems which affect people’s quality of life, as well as with the social repercussion of these disorders.

Neurology and Psychiatry
- Study of the nervous system in normal conditions and in presence of neurological or psychiatric disorders. The main goals of our research lines are the study of severe psychiatric disorders, the neurological disorders and their physiopathological basis, and the development and assessment of new therapies.

Outstanding Publications in 2016

- Neural basis of the apallic syndrome. *Brain* 139 (4) 1117-24.
- Healthy minds from 0-100 years: Optimising the use of European brain imaging cohorts (LifeBrain). *European Union*.
- Spanish Ministry of Economy, Industry and Competitiveness.
- European Training Network for Cell-based Regenerative Medicine (TrainingGRM).
- Spanish Ministry of Economy, Industry and Competitiveness.
- Executive function training in childhood obesity: food choice, quality of life and brain connectivity (TouCH).
- Spanish Ministry of Economy, Industry and Competitiveness.

- Personified Self Interaction (PSI).
- Temporal organization in information’s memory of episodic events. *Spanish Ministry of Economy, Industry and Competitiveness*.
- Including persons with schizophrenia: a valid evaluation of functionality in different cultural contexts. *Spanish Ministry of Economy, Industry and Competitiveness*.
- Juan Carlos. *La Marató de TV3*.
- Josep Gutiérrez Maldonado. *La Marató de TV3*.

Outstanding Projects Granted in 2016

- 435.028€ Healthy minds from 0-100 years: Optimising the use of European brain imaging cohorts (LifeBrain). *European Union*.
- 266.200€ Molecular basis of chloride channels CLC and LRRC8 associated pathologies. *Spanish Ministry of Economy, Industry and Competitiveness*.
- 185.316€ Executive function training in childhood obesity: food choice, quality of life and brain connectivity (TouCH). *Spanish Ministry of Economy, Industry and Competitiveness*.
- 150.040€ Molecular basis of chloride channels CLC and LRRC8 associated pathologies. *Spanish Ministry of Economy, Industry and Competitiveness*.
- 149.250€ Personified Self Interaction (PSI). *Spanish Ministry of Economy, Industry and Competitiveness*.
- 84.700€ Temporal organization in information’s memory of episodic events. *Spanish Ministry of Economy, Industry and Competitiveness*.
- 65.500€ Including persons with schizophrenia: a valid evaluation of functionality in different cultural contexts. *Spanish Ministry of Economy, Industry and Competitiveness*.