



**Institut  
de Neurociències**

# **ANNUAL REPORT 2016**



**Institut de Neurociències**  
UNIVERSITAT DE BARCELONA



**UNIVERSITAT DE  
BARCELONA**

Campus d'Excel·lència Internacional

**B:KC** Barcelona  
Knowledge  
Campus **HUB** Health University  
of Barcelona  
Campus



**Institute of Neurosciences**

**Annual Report**

**2016**

**“One Institute, four Campuses”**

**Institute of Neurosciences of the University of Barcelona**

Director: Carles Escera

Research Promotor: Cristina Pulido

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**Edition and coordination:**

Institute of Neurosciences of the University of Barcelona

University of Barcelona Unit Scientific Culture and Innovation (UCC+i)

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## Director's Welcome

**The Institute of Neurosciences aims to promote research in neurosciences from a global perspective** and boost collaborations among research groups in this field. Our Institute was officially launched in December 2015, and inaugurated through an Opening Session which took place at the Medicine Campus on the 20th of September 2016. 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.

The integration of researchers from four campuses has provided the Institute with a cross-sectional view and in 2016 this effort was validated through 350 academic publications, 6 M€ of external funds, and 7 registered patents.

**Our mission is focused on scientific excellence and international projection**, promoting challenging and highly competitive research programs. Our Institute has been ranked 34<sup>th</sup> in the US News Best Global Universities Ranking, and the excellence of the investigators has been acknowledged with one ERC Starting Grant and one ERC Proof of Concept. Within our members we count with the collaboration of 4 ICREA Research Professors and 4 ICREA Academy Professors.

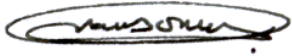
Our main efforts are driven to align our research activities with the Responsible Research and Innovation guidelines fostered by the European Commission. Our research activity addresses the societal challenges about health, wellbeing, education and knowledge transference, in a context of innovative and efficient scientific management. During this year the Institute has promoted a visualization program about transparency, transference and outreach, developing the website of the Institute, the current Annual Report, and participating in the 2<sup>nd</sup> Science Festival of the University of Barcelona and in the World Brain Week.

Our goal is to attract and promote young talent. Young researchers have the opportunity to join our Institute through a number of Master degrees and Doctoral programs from the University of Barcelona. We are especially concerned about training this 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.

The present Annual Report gathers the research activity we carried out during 2016. There are seven main chapters, which describe our Institute and its research areas, list the people that make up the Institute, show the publications, projects and patents we performed, collect the news that were published in our website and summarize our Institute in numbers.

The goals and efforts we have made need to be the model to follow in the next years, a road of discipline integration and scientific excellence that leads the Institute of Neurosciences of the University of Barcelona to be a national and international model.

Sincerely,

A handwritten signature in black ink, enclosed within a hand-drawn oval. The signature is cursive and appears to read 'Carles Escera'.

**Carles Escera**

Professor of Cognitive Neurosciences

Director of the Institute of Neurosciences

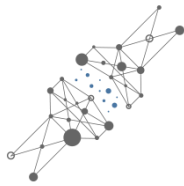
## Our Institute

**The Institute of Neurosciences of the University of Barcelona** gathers researchers who work on the **understanding of the central nervous system in all levels of analysis**, ranging from the biology of the neuron, through the formation of neural circuits, to the global function of the brain, which is the basis of cognition and behaviour. **This is the first Institute** of Neurosciences in the country **which integrates research lines in neurobiology, neuropharmacology, physiopathology, neurology, psychiatry, clinical psychology, neuropsychobiology and cognitive neurosciences.**

The Institute gathers about **300** researchers located in four university campuses: Mundet Campus, Barcelona Knowledge Campus, Medicine Campus - Hospital Clínic August Pi i Sunyer, and Bellvitge Health Sciences Campus

## 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.**

The groups of this area analyze synaptic transmission and its implication in plasticity and memory, and the mechanisms that regulate the neural circuits. Other subjects of research are the identification of signals and description of the molecular pathways related to the development of the nervous system.

Ageing and neurodegenerative illnesses that entail neural death are also studied, determining the elements involved in the neural survival-death balance, such as the mitochondrial dynamics, synaptic activity and signaling pathways.

Most part of the research is oriented to the development of new drugs for the treatment of neurological pathologies. In this sense, researchers of the area are interested in analyzing the pathways to target cells through the blood-brain barrier.



## Physiopathology of Nervous System Diseases

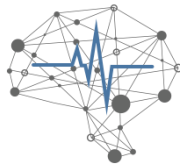
**Defining the physiopathological mechanisms involved in the loss of functionality, atrophy and neurodegeneration related to these diseases. A deeper understanding of these mechanisms will allow us to develop new therapeutic strategies to delay or prevent these neurological disorders.**



Researchers in this area study the neurodegenerative processes during ageing, in particular those molecular mechanisms involved in Alzheimer's disease and its possible causes, such as the environmental factors. Type 2 Diabetes or possible targets for drug treatment are also researched topics. Other groups are interested in finding new treatments for Huntington's disease, using pharmacological and cellular therapy.

There are research lines oriented towards the development of new therapeutical tools for pain treatment, new pharmacological targets and diseases related to the skeletal muscle, the retina or dystrophies affecting the myelin.

## Cognitive Neuroscience and Neuropsychology



**Doing research on the neurobiological substrates underlying cognition to unravel the neural circuits involved in mental processes. Neuropsychology groups focus on the clinical application of this knowledge using neuroimaging techniques, genetic studies and cognitive tests.**

The research in this area is oriented towards a comprehension of the cerebral mechanisms of auditory perception, attention and music processing. We are interested in disentangling the pathways that allow us to unravel the sensory stimuli and numeric information.

The decline of cognitive capacity during ageing, neural reorganization pathways after trauma and recovery are other studied topics. We also study the effects and neurological bases of dyslexia, cerebrovascular diseases, obesity, severe mental disorders and substance abuse, working with patients.

## Cognition, Behaviour and Computation

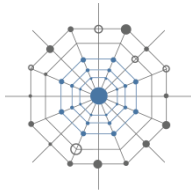
**Mechanisms of human and animal behaviour underlying different cognitive processes. Computational research and modelling analyses on studies of behavior, cognition and conservation, from an evolutionary and comparative perspective.**



We study the cognitive processes involved in language learning in babies and adults, and episodic memory in both healthy individuals and brain-damaged patients. We examine motor function, decision-making, problem-solving, emotion and reward.

Computation research is applied to both human and other animal models, in order to study orientation, navigation, and spatial memory. We develop computational models and algorithms to simulate the behavior and collective movements of groups like shoals. Moreover, we work on behavior and conservation from an evolutionary perspective developing comparative studies in primates, both in captivity and in the wild.

## Clinical and Applied Psychology

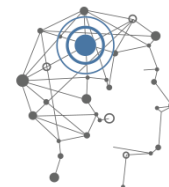


**Identification, analysis and intervention of human behaviour disorders, both at individual and at group levels. We are especially concerned with psychological problems which affect people's quality of life, as well as with the social repercussion of these disorders.**

We study the tools that are used for the diagnosis and evaluation of psychological disorders, and apply statistical techniques in order to develop models and improve such tools. We develop tools for the prediction and prevention of violent behavior. We study how to improve the quality of the elderly, and do research on new virtual reality applications for the treatment of psychological disorders, such as anxiety or phobias.

## Neurology and Psychiatry

**The 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 histopathological basis, and the development and assessment of new therapies.**



Researchers of this area study the molecular and neural mechanisms of chronic pain, inflammation and brain damage. Other lines examine the glutamatergic signals and proteins that are involved in the synapse, the ion channels in glaucoma and sleep-related disorders. We study the neurobiological mechanisms and develop treatments for several neurodegenerative disorders such as Parkinson, autism, bipolar disorder and several psychoses.

Facts & Figures



#34 Neuroscience and Behavior



90% Competitive funding  
10% Non-competitive funding  
85% National  
15% International



Patents

**350**  
Publications

**61%**  
1st Quartile  
publications

**1490**  
Impact Factor



**4**  
Research  
professors

**4**  
Academia  
professors



**1**  
Starting  
grants

**1**  
Proof  
of concept



163 Researchers  
58 Early stage researchers  
20 Technical and support  
65 Collaborations



176 Women  
130 Men

## Events

### Opening Session

The Institute of Neuroscience's opening session took place at the Medicine Campus, on the 20<sup>th</sup> of September 2016. The act was presided over the rector of the University, Dídac Ramírez, who reminded the attendants that, "The Institute of Neurosciences has to serve society" and emphasized that the centre will work from the responsible research and innovation perspective. The event counted with the participation of the vice-rector of research Jordi Alberch, who highlighted that "the Institute allows the potentization and international projection reaching one of the main challenges of the 21<sup>th</sup> Century, the study of human brain functioning. To fulfil this challenge we have to carry out multidisciplinary tasks that range from molecular and cellular biology to conduct studies, and the researchers at the Institute of Neurosciences of the University of Barcelona have the experience and skills to face these kind of studies".

The Institute's director Carles Escera, pointed out that the Institute creation serves as a platform to strengthen the synergies between current research groups of the university. In words of Escera "The institute was created as a platform to promote synergies between the existing groups in the University, so the advances in the different fields of neuroscience are able to have more projection and be more visible". The director hoped that the new institute would serve as an attraction pole for young talent wishing to develop careers in the neuroscience research. In this sense, he remarked that "The Institute is born with a cross-way structure which aims to engage and attract research talent". The Institute offers a platform so the researchers can build competitive teams in order to participate in international projects.

### PhD Workshop

On December 15<sup>th</sup> we celebrated the first edition of the PhD Workshop of the Institute of Neurosciences at Mundet Campus. The session aimed to inspire young researchers and students by exposing current and future opportunities and research possibilities.

From early in the morning the environment was exciting. Eighty students and early stage researchers attended to the conferences, which was held in the main room of the Theatre building. After the Director welcomed the attendants, six oral presentations, one per each research area were given by the early stage researchers of the Institute.

The poster session gathered 42 posters from the different field of neurosciences. Both, oral and posters presentation exposed excellent and breakthrough research, making notable the high potential of our young researchers.

Afterwards, the session addressed "*Future opportunities in the academic and the non-academic sector*" and were given by the researchers Dr. Costa Faidella, Dr. Soriano, Dr. de Diego-Balaguer and Dra. Verger-Maestre who encourage attendants to keep working on the state-of-the art of neurosciences.

The event ended with the award of the best poster by, which was delivered to Noemi Lamonja who presented "*Influence of the physical activity and genetics on cognition*".

## Directory

### Researchers

Adan Puig, Ana

Aguado Tomas, Fernando

Alberch Vié, Jordi

Alcántara Horrillo, Soledad

Álvarez Artigas, Antonio

Amador Campos, Juan Antonio

Andrés Perpiña, Susana

Andrés Pueyo, Antonio

Anguera Argilaga, M. Teresa

Auladell Costa, M. Carmen

Aznar Casanova, José Antonio

Barrallo Gimeno, Alejandro

Barrios Cerrejón, M. Teresa

Bartrés-Faz, David

Batista Trobalón, Josep

Bernardo Arroyo, Miguel

Blasco Ruiz, Ricardo Diego

Blasi Cabús, Juan M. Vianney

Bono Cabré, Roser

Bosch Galceran, Laura

Burgaya Márquez, Ferran

Caldú Ferrús, Xavier

Camins Espuny, Antonio

Canals Coll, Josep M.

Canudas Teixidó, Anna M.

Carbonell Bardera, M. Lourdes

Castro Fornieles, Josefa

Catalán Campos, Rosa

Celdrán Castro, Montserrat

Ciruela Alférez, Francisco

Clemente Lapena, I. Concepción

Colell Mimo, Montserrat

Colomé González, Àngels

Comes Beltrán, Núria

Compta Hirnyj, Yaroslau

Conde Sala, Josep Lluís

Corral López, Maria José

Cuffi Cheliz, M. Laura

Cutillas Arroyo, Blanca M.

De Diego Balaguer, Ruth

Díez Chamizo, M. Victoria

Edel, Michael John

Escartín Solanelles, Jorge

Escera, Carles

Estévez Povedano, Raúl

Feixas Viaplana, Guillem

Ferrer Abizanda, Isidro

Fuentemilla Garriga, Lluís

Gallardo Pujol, David

Gasull Casanova, Xavier

Gavin Marín, Rosalina

Giblin, Jonathan Peter

Ginés Padrós, Sílvia

Gómez Benito, Juana

Graus Ribas, Francesc

Gual Sala, Arcadio

Guàrdia Olmos, Joan

Guilera Ferré, Georgina

Gutiérrez- Maldonado, José

Jiménez Guerrero, Andrés

Junqué Plaja, Carme

Jurado Luque, M. Àngels  
Keil, Matthias Sven  
Kirchner Nebot, Teresa  
Lázaro García, M. Luisa  
Leiva Ureña, David  
Llobet Berenguer, Artur  
Llorens Baucells, Jordi  
López-Moliner, Joan  
Mahy Gehenne, Josette-Nicole  
Malagelada Grau, Cristina  
Marco Pallarés, Josep  
Martín Ibáñez, Raquel  
Martínez Aran, Ana Isabel  
Martín-Santos Laffon, M. del Rocío  
Mataró Serrat, Maria  
Maydeu Olivares, Alberto  
Méndez Zunzunegui, Ana  
Miralbell Blanch, Júlia  
Núñez Peña, M. Isabel  
Pallàs Liberia, Mercè  
Palomera Àvalos, Verònica  
Parellada Rodón, Eduardo  
Pascual Sánchez, Marta  
Pelegrí Gabalda, M. del Carme  
Penades Rubió, Rafael  
Pereda Beltrán, Noemí  
Pérez Navarro, Esther  
Peró Cebollero, Maribel  
Pons Gimeno, Ferran  
Pueyo Benito, Roser  
Pugliese, Marco  
Pujadas Puigdomènech, Lluís  
Quera Jordana, Vicenç  
Redondo Illescas, Santiago  
Río Fernández, José Antonio del  
Rodríguez Allué, Manuel José  
Rodríguez Carballeira, Álvaro  
Rodríguez Ferreiro, Javier  
Rodríguez Fornells, Antonio  
Rumenov Manolov, Rumen  
Saldaña García, M. Carmen  
Salvador Beltrán, Francesc  
San Miguel Insua, Iria  
Sánchez González, Sílvia  
Sansa Aguilar, Joan  
Saura Martí, Josep  
Sedo Cabezón, Lara  
Segura Fàbregas, Bàrbara  
Serra Grabulosa, José M.  
Sindreu Balet, Carlos  
Slater, Melvyn  
Solanas Pérez, Antonio  
Soler Martín, Carla  
Solsona Sancho, Carles M.  
Sopena Sisquella, Josep M.  
Soriano García, Eduardo  
Soriano Zaragoza, Francesc Xavier  
Soto del Cerro, David  
Supèr, Hans  
Torra Santamaria, M. Mercedes  
Torres Giménez, Anna  
Tubau Sala, Elisabet  
Ulloa Darquea, Fausto A.  
Ureña Barés, Jesús Mariano  
Valdés Miyar, José Manuel  
Vallano Ferraz, Antonio Fco.

Via García, Marc

Vidal Gómez, José Antonio

Vidal Taboada, José Manuel

Vieta Pascual, Eduard

Vilaplana Hortensi, Jordi

Villar Posada, Feliciano



## Postdoctoral Researchers

Álvarez Palomo, Ana Belén

Baggio, Hugo César

Costa Faidella, Jordi

Cotrufo, Tiziana

Dolado Guivernau, Ruth

Dorca Arévalo, Jonatan

Eiroa Orosa, Francisco José

Fernández Dueñas, Víctor

Ferrer García, Marta

Gil Fernández, Vanesa

Gratacós Batlle, Esther

Linares Herreros, Daniel

Magallón Neri, Ernesto Mijail

Manso Sanz, Yasmina

Mirra, Serena

Muhaisen, Ashraf

Rossi, Daniela

Sirisi Dolcet, Sònia

Soriano Raya, Juan José

Verdaguer Cardona, Ester

## Early Stage Researchers (PhD Students)

Abellaneda Pérez, Kilian  
Abós Ortega, Alexandra  
Aguilar Lleyda, David  
Alcalá Vida, Rafael  
Alcón Franch, Clara  
Antelo González, Emma  
Augé Marí, Elisabet  
Balada Caballé, Rafael  
Ballester Plané, Júlia  
Banakou, Domna  
Barranco Muñoz, Neus  
Bioque Alcázar, Miquel  
Buenestado Delclòs, Silvia  
Bueno Guerra, Nereida  
Cabezón Rodríguez, Itsaso  
Cámara López, Clara  
Castellanos Esparraguera, Aida  
Castells Sánchez, Alba  
Cherubini, Marta  
Comella Bolla, Andrea  
Cornellà Gríful, Miriam  
Elorza Vidal, Xabier  
Farras Permanyer, Laia  
Fernández García, Sara Elena  
García Díaz-Barriga, Alfonso Gerardo  
García Forn, Marta  
García Mieres, Helena  
Gimeno Rosell, Elisabet  
Gorina Careta, Natàlia  
Greguske, Erin  
Hernaiz Llorens, Marc  
Lamonja Vicente, Noemí  
Laporta Hoyos, Olga  
López Caballero, Francisco José  
Mancho Fora, Núria  
Marqués Iturria, Idoia  
Martín Flora, Núria  
Martín Trias, Juan Pablo  
Medina Alcaraz, Juan Carlos  
Mesa Ivern, Virginia  
Moggia, Danilo Orlando  
Montesano del Campo, Adrián  
Morató Arús, Xavier  
Morer Liñán, Astrid  
Ottino González Jonatan Emanuel  
Parcerisas Mosqueda, Antoni  
Paz Espinoza, Clara Patricia  
Pla Requena, Virginia Teresa  
Plana Bonamaiso, Anna M.  
Portellano Ortiz, Cristina  
Puigoriol Illamola, M. Dolors  
Roselló Busquets, Cristina  
Saldaña Tops, Omar Andrés  
Segarra Mondéjar, Marc  
Selinger, Anne Lenka M.  
Spinosa, Vittoria  
Suelves Caballol, Núria  
Suso Ribera, Carlos  
Taura Iglesias, Jaume Josep  
Trujillo Terán, Luz Adriana  
Uribe Codesal, M. del Carmen  
Varela Rey, Ana  
Vílchez Acosta, Alba del Valle

## Technical Support Staff

Andrade López, Carmen

Gaitán Peñas, Héctor

Herranz Sotoca, Cristina

Kishore, Sameer

Lobón García, Irene

López Cano, Marc

Pau Ramón, Montserrat

Pérez Rius, Carla

Pulido Pérez, Cristina

Requena Osete, Jordi

Sánchez Rodríguez, M. Salut

Solís Benites, Marco Antonio

Torres Domínguez, Marta Natàlia

Valle León, Marta

Vanneste, David

## Collaborators

Álvarez Periel, Elena

Alvear Contreras, Raisa Camilla

Andrés Benito, Pol

Andres Bilbe, Alba

Ansoleaga Ávila, Belén

Aso Pérez, Ester

Baeza Pertegaz, M. Inmaculada

Bargalló Alabart, Núria

Barrachina Castillo, Marta

Barrot Feixat, Carme

Benabarre Hernández, Antonio

Blázquez Romero, Gloria

Bonnín Roig, Caterina del Mar

Brito, Verónica Inés

Cabrera Llorca, Bibiana

Calvo Escalona, Rosa

Campabadal Delgado, Ana

Carmona Murillo, Margarita

Canal de la Iglesia, Mercè

Casellas Díaz, Sergi

Castellanos Esparreguera, Aida

Castillo Valentín, Lourdes

Cavero Álvarez, Myriam

Colom Victoriano, Francesc

Comella Bolla, Andrea

Creus Muncunill, Jordi

De la Serna Gómez, Elena

Domínguez González, Mayelin

Egmond, Elfi

Frau Méndez, Margalida

García Esparcia, Paula

García Esteve, Lluïsa

García Rizo, Clemente

Goikolea Alberdi, José Manuel

González Rodríguez, Alexander

Grande Fullana, Iria

Griñán Ferré, Christian

Hernández Ortega, Karina

Imaz Gurruchaga, M. Luisa

Jiménez Martínez, Ester

Kilteni, Konstantina

Kokkinara, Eleni

Lera Miguel, Sara

López Beginés, Santiago

López González, Irene

Masana Nadal, Mercè

Mata Rodríguez, Ágata

Matamoros Anglès, Andreu

Mezquida Mateos, Gisela

Míguez González, Andrés

Murru, Andrea

Navines de la Cruz, Ricard

Oriolo Giovanni

Pacchiarotti, Isabella

Pedrós Cholvi, Consuelo

Pérez Balaguer, Ariadna

Perpiña Martín, Unai

Puig Navarro, Olga

Puig Pinós, Meritxell

Romero Cela, Soledad

Saavedra Martins, Ana Cristina

Sánchez Moreno, José

Sanfeliu, Coral

Segura Feliu, Miriam

Solé Cabezuelo, Brisa

Straccia, Marco

Sugranyes Ernest, Gisela

Torrent Font, Carla

Torres, Vilamajo, Imma

Urrea Zazurca, Laura

Valentí Ribas, Marc

Vidal Sarro, Noemí

Zamorano Ng Teajan, Cristina

Zújar Rubió, M. José

## Projects and Funds Granted in 2016

### Internationals Projects

#### European Union (EU)

##### *Horizon2020*

- 1. European Training Network for Cell-based Regenerative Medicine (Training4CRM)**  
Reference: MSCA-ITN-2016-722779  
PI: Alberch Vie, Jordi  
Agency: EU, H2020  
Duration: 01/11/2016-31/10/2020  
Amount: 247,872€
- 2. Healthy minds from 0-100 years: Optimising the use of European brain imaging cohorts (Lifebrain)**  
Reference: H2020-SC1-2016-RTD-732592  
PI: Bartrés Faz, David  
Agency: EU, H2020  
Duration: 01/01/2017-31/12/2021  
Amount: 435,028 €
- 3. Personified Self Interaction (PSI)**  
Reference: ERC-2015-PoC-712984  
PI: Slater, Melvyn  
Agency: EU, H2020  
Duration: 01/07/2016-31/12/2017  
Amount: 149,950 €
- 4. Human Brain Project Specific Grant Agreement 1 (HBP SGA1)**  
Reference: HBP SGA1 720270  
PI: Slater, Melvyn  
Agency: EU, H2020  
Duration: 01/04/2016-31/03/2018  
Amount: 13,125€

### National Projects

#### Ministry of Economy and Competitiveness (MINECO)

##### *Excellence/challenges*

- 1. Psicobiología de la patología dual**  
Reference: PSI2015-65026-P  
PI: Adan Puig, Ana  
Agency: MINECO  
Duration: 01/01/2016-31/12/2019  
Amount: 89,177 €

- 2. Nuevos indicadores en la fisiopatología de la enfermedad de alzheimer basados en componentes de la vía de secreción regulada**  
Reference: BFU2016-80868-R  
PI: Aguado Tomas, Fernando  
Agency: MINECO  
Duration: 30/12/2016-29/12/2019  
Amount: 157,300 €
- 3. La actividad física y el deporte como potenciadores del estilo de vida saludable: Evaluación del comportamiento deportivo desde metodologías no intrusivas**  
Reference: DEP2015-66069-P  
PI: Anguera Argilaga, M. Teresa  
Agency: MINECO  
Duration: 01/01/2016-31/12/2018  
Amount: 47,432 €
- 4. Efectos del entrenamiento cognitivo combinado con estimulación cerebral no-invasiva guiada por información funcional cerebral en el deterioro cognitivo leve**  
Reference: PSI2015-64227-R  
PI: Bartrés Faz, David  
Agency: MINECO  
Duration: 01/01/2016-31/12/2018  
Amount: 77,440 €
- 5. Comparación entre modelos lineales mixtos y modelos lineales mixtos generalizados: estudios de simulación y aplicaciones**  
Reference: PSI2016-78737-P  
PI: Bono Cabré, Roser  
Agency: MINECO  
Duration: 30/12/2016-29/12/2020  
Amount: 32,670 €
- 6. Desarrollo, diferenciación y maduración neuronal en la enfermedad de Huntington**  
Reference: SAF2015-66505-R  
PI: Canals Coll, Josep Maria  
Agency: MINECO  
Duration: 01/01/2016-31/12/2018  
Amount: 181,500 €
- 7. Contribución subcortical a la cognición auditiva**  
Reference: PSI2015-63664-P  
PI: Escera, Carles  
Agency: MINECO  
Duration: 01/01/2016-31/12/2018  
Amount: 112,167 €
- 8. Bases moleculares de patologías asociadas a canales de cloruro CLC y LRRRC8**  
Reference: SAF2015-70377-R  
PI: Estévez Povedano, Raúl  
Agency: MINECO  
Duration: 01/01/2016-31/12/2018  
Amount: 266,200 €

**9. Organización temporal en memoria de la información de los acontecimientos episódicos**

Reference: PSI2016-80489-P  
PI: Fuentemilla Garriga, Lluís  
Agency: MINECO  
Duration: 30/12/2016-29/12/2019  
Amount: 104,060 €

**10. Cdk5 como nueva diana terapéutica y biomarcador del trastorno depresivo en la enfermedad de Huntington**

Reference: SAF2015-67474-R  
PI: Ginés Padrós, Silvia  
Agency: MINECO  
Duration: 01/01/2016-31/12/2018  
Amount: 217,800 €

**11. Integrando a las personas con esquizofrenia: una evaluación válida de la funcionalidad en diferentes contextos culturales**

Reference: PSI2015-67984-R  
PI: Gómez Benito, Juana  
Agency: MINECO  
Duration: 01/01/2016-31/12/2019  
Amount: 84,700 €

**12. Desarrollo de técnicas de exposición mediante realidad virtual para la mejora del tratamiento de la anorexia nerviosa**

Reference: PSI2015-70389-R  
PI: Gutiérrez Maldonado, José  
Agency: MINECO  
Duration: 01/01/2016-31/12/2019  
Amount: 58,080 €

**13. Daño y reparación de las sinapsis vestibulares en la ototoxicidad crónica**

Reference: BFU2015-66109-R  
PI: Llorens Baucells, Jordi  
Agency: MINECO  
Duration: 01/01/2016-31/12/2018  
Amount: 121,000 €

**14. Actividad oscilatoria cerebral asociada a diferentes tipos de recompensa en humanos**

Reference: PSI2015-69664-P  
PI: Marco Pallarés, Josep  
Agency: MINECO  
Duration: 01/01/2016-31/12/2018  
Amount: 81,070 €

**15. Estudio de integración ómica de los efectos neurobiológicos del ejercicio físico y la estimulación cognitiva**

Reference: PSI2016-77475-R  
PI: Mataró Serrat, Maria  
Agency: MINECO  
Duration: 30/12/2016-29/12/2019  
Amount: 124,872 €



- 16. Búsqueda de dianas terapéuticas para las distrofias hereditarias de retina: caracterización de un nuevo complejo multienzimático central en la fisiología de fotorreceptores**  
Reference: BFU2016-80583-R  
PI: Mendez Zunzunegui, Ana  
Agency: MINECO  
Duration: 30/12/2016-29/12/2019  
Amount: 133,100 €
- 17. Ansiedad matemática: el papel de la habilidad de procesamiento espacial**  
Reference: PSI2015-69915-R  
PI: Nuñez Peña, M. Isabel  
Agency: MINECO  
Duration: 01/01/2016-31/12/2019  
Amount: 40,777 €
- 18. Estudio de la Epóxido hidrolasa soluble como una nueva diana farmacológica para la enfermedad de Alzheimer: modulación del estrés oxidativo y la función mitocondrial**  
Reference: SAF2016-77703-C2-1-R  
PI: Pallàs Lliberia, Mercè  
Agency: MINECO  
Duration: 30/12/2016-29/12/2019  
Amount: 133,100 €
- 19. Estudio de la presencia de neo-epítomos en estructuras degenerativas cerebrales y de la existencia en el plasma de anticuerpos naturales dirigidos contra dichos neo-epítomos**  
Reference: BFU2016-78398-P  
PI: Pelegrí Gabalda, Maria del Carme  
Agency: MINECO  
Duration: 30/12/2016-29/12/2020  
Amount: 145,200 €
- 20. Alteraciones de la lámina nuclear y de la traducción proteica con nuevos mecanismos patogénicos en la enfermedad de Huntington**  
Reference: SAF2016-80573-R  
PI: Pérez Navarro, Esther  
Agency: MINECO  
Duration: 30/12/2016-29/12/2019  
Amount: 181,500 €
- 21. Entrenamiento ejecutivo en parálisis cerebral: participación, calidad de vida y conectividad cerebral**  
Reference: PSI2016-75979-R  
PI: Pueyo Benito, Roser  
Agency: MINECO  
Duration: 30/12/2016-29/12/2020  
Amount: 92,081 €
- 22. Reglas de interacción local y movimiento colectivo en peces cebra (*Danio rerio*) y peces tetra neón negro (*Hyphessobrycon herbertaxelrodi*)**  
Reference: PSI2015-63743-P  
PI: Quera Jornada, Vicente  
Agency: MINECO  
Duration: 01/01/2016-31/12/2018  
Amount: 21,417 €

**23. Violencia psicológica aplicada para el sometimiento o la exclusión: análisis, evaluación y modelos explicativos**

Reference: PSI2016-75915-P  
PI: Rodríguez Carballeira, Álvaro  
Agency: MINECO  
Duration: 30/12/2016-29/12/2019  
Amount: 38,720 €

**24. Diferencias individuales en el procesamiento lingüístico: memoria semántica, personalidad esquizotípica y pensamiento creativo**

Reference: PSI2016-80061-R  
PI: Rodríguez Ferreiro, Javier  
Agency: MINECO  
Duration: 01/01/2016-31/12/2019  
Amount: 34,969 €

**25. Disección genética de circuitos mnemónicos: el caso de la vía quinasa Erk1/2**

Reference: SAF2015-69767-P  
PI: Sindreu Bale, Carlos  
Agency: MINECO  
Duration: 01/01/2016-31/12/2018  
Amount: 150,040 €

**26. Nuevos enfoque para entender la patogénesis y la terapéutica de la Enfermedad de Alzheimer**

Reference: SAF2016-76340-R  
PI: Soriano García, Eduardo  
Agency: MINECO  
Duration: 30/12/2016-29/12/2019  
Amount: 459,800 €

**27. Hacia una concreción del envejecimiento activo: antecedentes y consecuencias según el tipo de actividad realizada**

Reference: PSI2016-77864-R  
PI: Villar Posada, Feliciano  
Agency: MINECO  
Duration: 30/12/2016-29/12/2019  
Amount: 31,460 €

*Others*

**1. Ampliación y renovación del equipamiento de la Unidad de Microscopía Óptica Avanzada de los Centros Científicos y Tecnológicos de la Universidad de Barcelona**

Reference: UNBA15-EE-3511  
PI: Alberch Vie, Jordi  
Agency: MINECO  
Duration: 2016  
Amount: 315,000 €

**2. Regulación epigenética de la respuesta inflamatoria**

Reference: RTC-2016-4955-1  
PI: Pallàs Lliberia, Mercè  
Agency: MINECO  
Duration: 01/01/2017-31/12/2018  
Amount: 121,472 €

**3. Identificación de moduladores dietéticos del envejecimiento cognitivo y plasticidad cerebral, y evidencia del concepto de eficacia en la prevención/reversión del declive cognitivo**

Reference: PCIN-2015-229

PI: Pallàs Lliberia, Mercè

Agency: MINECO

Duration: 01/01/2016-31/12/2018

Amount: 122,000 €

*Institute of Health Carlos III (ISCIII) -CIBER-*

**1. Enfermedades neurodegenerativas**

Reference: CB06/05/0054

PI: Alberch Vie, Jordi

Agency: MINECO-ISCIII

Duration: 17/11/2006-31/12/2017

Amount: 65,889 €

**2. Enfermedades neurodegenerativas**

Reference: CB06/05/0024

PI: Camins Espuny, Antonio

Agency: MINECO-ISCIII

Duration: 17/11/2006-31/12/2017

Amount: 44,771 €

**3. CIBERER: Enfermedades Raras**

Reference: CB06/07/1003

PI: Estévez Povedano, Raúl

Agency: MINECO-ISCIII

Duration: 12/11/2007-31/12/2017

Amount: 63,955 €

**4. Enfermedades neurodegenerativas**

Reference: CB06/05/0098

PI: Soriano Garcia, Eduardo

Agency: MINECO-ISCIII

Duration: 04/12/2012-31/12/2017

Amount: 68,438 €

*Other National Ministries*

**1. 'ALCO-VR': Protocolo basado en Realidad Virtual para el tratamiento de pacientes con trastorno por uso de alcohol severo**

Reference: 2016I078

PI: Gutiérrez Maldonado, José

Agency: Ministry of Health, Social Services and Equality

Duration: 01/12/2016-30/11/2019

Amount: 68,630 €

## Regional and Local Projects

- 1. Advancecat: acceleradora per al desenvolupament de teràpies avançades a Catalunya**  
Reference: COMRDI15-1-0013-07  
PI: Canal Coll, Josep Maria  
Agency: Agency for Business Competitiveness (ACCIÓ)  
Duration: 01/02/2016-30/01/2019  
Amount: 58,221 €
- 2. Advancecat: acceleradora per al desenvolupament de teràpies avançades a Catalunya**  
Reference: COMRDI15-1-0013-00  
PI: Canal Coll, Josep Maria  
Agency: Agency for Business Competitiveness (ACCIÓ)  
Duration: 01/02/2016-30/01/2019  
Amount: 100,947 €
- 3. COBED: Cognición, bienestar y educación**  
Reference:  
PI: Colell Mimó, Montserrat  
Agency: Barcelona de Serveis Municipals, SA  
Duration: 14/06/2016-30/09/2017  
Amount: 10,800 €
- 4. Anàlisi de la base de dades 'ocupadors privats':**  
Reference:  
PI: Guàrdia Olmos, Joan  
Agency: Catalan University Quality Assurance Agency (AQU Catalunya)  
Duration: 09/03/2016-28/10/2016  
Amount: 19,500 €
- 5. Executive function training in childhood obesity: food choice, quality of life and brain connectivity (TOuCH)**  
Reference: 122/U/2016  
PI: Jurado Luque, Maria Àngeles  
Agency: La Marató de TV3 Foundation  
Duration: 01/01/2017-31/12/2017  
Amount: 186,216 €
- 6. Àmbit de l'execució penal, la mediació penal i l'atenció a la víctima**  
Reference:  
PI: Pereda Beltran, Noemi  
Agency: Ministry of Justice of Government of Catalonia  
Duration: 01/01/2017-31/12/2019  
Amount: 2,500 €
- 7. Skills Inventory for Higher Education Management**  
Reference:  
PI: Pero Cebollero, Maribel  
Agency: Institute of Education Sciences (ICE) - University of Barcelona (UB)  
Duration: 30/06/2016-02/12/2017  
Amount: 1,771 €

## Grants

- 1. Centre per a la producció i validació de teràpies avançades**  
Reference: TECDTP-15-1-0022  
PI: Canals Coll, Josep Maria  
Agency: Agency for Business Competitiveness (ACCIÓ)  
Duration: 30/10/2015-30/10/2016  
Amount: 43,767 €
  
- 2. Ajuts per impulsar la participació en projectes internacionals de recerca (2016) en el marc del programa Horizon 2020 i altres programes europeus**  
Reference:  
PI: Llorens Baucells, Jordi  
Agency: University of Barcelona  
Duration: 01/01/2016- 31/12/2016  
Amount: 6,000 €
  
- 3. Ajuts per impulsar la participació en projectes internacionals de recerca (2016) en el marc del programa Horizon 2020 i altres programes europeus.**  
Reference:  
PI: López-Moliner, Joan  
Agency: University of Barcelona  
Duration: 01/01/2016- 31/12/2016  
Amount: 8,000 €
  
- 4. Programa 'Salvador de Madariaga**  
Reference: PRX16-00209  
PI: Mataró Serrat, Maria  
Agency: Ministry of Education, Culture and Sport  
Duration: 01/01/2017-30/06/2017  
Amount: 19,309 €
  
- 5. Herramientas digitales de evaluación, aprendizaje y reeducación de las funciones cognitivas en la infancia**  
Reference: F2I-MiR\_2016\_001  
PI: Serra Grabulosa, José Maria  
Agency: Bosch i Gimpera Foundation of the University of Barcelona de la Universitat de Barcelona  
Duration: 14/12/2016-13/06/2017  
Amount: 6,000 €
  
- 6. Immersive Cerebral and Othopedic Rehabilitation and Training Exercises**  
Reference: F2I-PoC\_2016\_024  
PI: Slater, Melvyn  
Agency: Bosch i Gimpera Foundation of the University of Barcelona  
Duration: 01/01/2017-31/12/2017  
Amount: 25,000 €
  
- 7. Immersive Cerebral and Othopedic Rehabilitation and Training Exercises**  
Reference: F2I-MiR\_2016\_002  
PI: Slater, Melvyn  
Agency: Bosch i Gimpera Foundation of the University of Barcelona  
Duration: 14/12/2016-13/04/2017  
Amount: 6,000 €

## Agreements

The Institute of Neurosciences of the University of Barcelona obtained a total of 640,759 € from national and international agreements during 2016. Specifically, 80,000 € were got through three international agreements and 560,759 € were got from 21 national agreements signed with public or private institutions out of which we highlight the Ministry of Justice of the Government of Catalonia, the Private Foundation Institut Guttmann, Institute for Biomedical Research of Salamanca, Esteve S.A., Mint Labs S.L., August Pi i Sunyer Biomedical Research Institute (IDIBAPS), among others.

## Patents

- 1. Mitochondrial markers of neurodegenerative diseases**  
Reference: AVCRI247-E  
Type: PCT/EUR/USA  
Authors: Barrachina Castillo, Marta; Ferrer Abizanda, Isidre; Blanch Lozano, Marta
  
- 2. Mètode Numerus**  
Reference: UBTT0289-b  
Type: Copyright (software and database)  
Authors: Grabulosa, Josep M. Serra; Grau Carrión, Sergi
  
- 3. Método in vitro y kit para el pronóstico o predicción de la respuesta al tratamiento con agentes antipsicóticos por parte de pacientes que han sufrido un primer episodio psicótico**  
Reference: AVCRI268-E  
Type: PCT/EUR/USA  
Authors: Martínez Cengotitabengoa, Mónica; González Pinto, Ana María; Alberich Mesa, Susana; Leza Cerro, Juan Carlos; Macdowell Mata, Karina; Parellada Redondo, María José; Rodríguez Jiménez, Roberto; Bernardo Arroyo, Miguel; Sáiz Martínez, Pilar Alejandra
  
- 4. Motor training**  
Reference: AVCRI263-E  
Type: PCT/EUR/USA  
Authors: Sánchez Vives, Mavi; Slater, Mel
  
- 5. Physiological response**  
Reference: AVCRI264-E  
Type: PCT/EUR/USA  
Authors: Sánchez Vives, Mavi; Slater, Mel; Arroyo Palacios, Jorge
  
- 6. Di-test: Batería digital de evaluación cognitiva para la infancia**  
Reference: UBTT0289  
Type: Copyright (software and database)  
Serra Grabulosa, Josep M.; Grau Carrión, Sergi
  
- 7. Projecte Binding**  
Reference: AVCRI184-b  
Type: Copyright (software and database)  
Sopena Sisquella, Josep M.

## Publications\*

1. Abad, S., Ramon, C., Pubill, D., Camarasa, J., Camins, A. & Escubedo, E. (2016). Adolescent exposure to MDMA induces dopaminergic toxicity in substantia nigra and potentiates the amyloid plaque deposition in the striatum of APP<sup>swe</sup>/PS1<sup>dE9</sup> mice. *Biochimica et Biophysica Acta-Molecular Basis of Disease*, 1862, 1815-1826.
2. Adan, A., Navarro, J.F. & Forero, D. Personality profile of binge drinking in university students is modulated by sex. (2016). *Drug and Alcohol Dependence*, 165, 120-125.
3. Aghamollaie, M., Zarnowiec, K., Grimm, S. & Escera, C. (2016). Functional dissociation between regularity encoding and deviance detection along the auditory hierarchy. *European Journal of Neuroscience*, 4, 529-535.
4. Agus, M., Penna, M.P., Peró-Cebollero, M. & Guàrdia-Olmos, J. (2016). Assessing Probabilistic Reasoning in Verbal-Numerical and Graphical-Pictorial Formats: An Evaluation of the Psychometric Properties of an Instrument. *Eurasia Journal of Mathematics Science and Technology Education*, 12 (8), 2013-2038.
5. Agus, M., Penna, M.P., Peró-Cebollero, M., Guàrdia-Olmos, J. & Pessa, E. (2016). Investigating the probabilistic reasoning in verbal-numerical and graphical-pictorial formats in relation to cognitive and non-cognitive dimensions: The proposal of a model. *Personality and Individual Differences*, 94, 44-53.
6. Albi, A., Pasternak, O., Minati, L., Marizzoni, M., Bartrés-Faz, D., Bargalló, N., Bosch, B., Rossini, P.M., Marra, C., Müller, B., Fiedler, U., Wiltfang, J., Roccatagliata, L., Picco, A., Nobili, F.M., Blin, O., Sein, J., Ranjeva, J.P., Didic, M. & Bombois. (2016). Free water elimination improves test-retest reproducibility of diffusion tensor imaging indices in the brain: A longitudinal multisite study of healthy elderly subjects. *Human Brain Mapping*.
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9. Alonso-Lana, S., Goikolea, J.M., Bonnín, C.M., Sarró, S., Segura, B., Amann, B.L., Monté, G.C., Moro, N., Fernandez-Corcuera, P., Maristany, T., Salvador, R., Vieta, E., Pomarol-Clotet, E. & McKenna, P.J. (2016). Structural and Functional Brain Correlates of Cognitive Impairment in Euthymic Patients with Bipolar Disorder. *PLoS One*, 11(7).

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