

## CURRICULUM VITAE

**Name:** Ana Bernal Chico

**Date of birth:** 27/08/1985

**Full postal address:** Momentum Laboratory of Molecular Neurobiology, Department of Molecular and Developmental Neurobiology, Institute of Experimental Medicine, Hungarian Academy of Sciences (IEM HAS), H-1083 Szigonyi utca 43, Budapest (Hungary)

**E-mail:** [ana.bernal@koki.mta.hu](mailto:ana.bernal@koki.mta.hu)

### Education:

1. B.S. in Biochemistry: Jul 2008 UPV/EHU
2. M.S in Biomedicine and Molecular Biology: Sept 2009 UPV/EHU
3. PhD in Neuroscience: Jul 2014 UPV/EHU

### Professional experience:

Student research assistant: Oct 2006-Jul 2008, Microbiology department, Pharmacy Faculty, UPV/EHU

Master student research assistant: Aug 2008-Jul 2009, Molecular genetics laboratory, Cruces Hospital, (Basque Government fellowship)

PhD student: Sep 2009-Jul 2014, Laboratory of Neurobiology, Neuroscience department, Medicine Faculty, UPV/EHU, (UPV/EHU fellowship)

Visiting scientist: Jan 2013-Apr 2013, Laboratory of Molecular Neurobiology, Department of Molecular and Developmental Neurobiology, Institute of Experimental Medicine, Hungarian Academy of Sciences (IEM HAS), (UPV/EHU fellowship)

Postdoctoral researcher: Jul 2014-Jul 2015, Laboratory of Neurobiology, Neuroscience department, Medicine Faculty, UPV/EHU, (UPV/EHU fellowship)

Postdoctoral researcher: Sep 2015-present, Momentum Laboratory of Molecular Neurobiology, Department of Molecular and Developmental Neurobiology, Institute of Experimental Medicine, Hungarian Academy of Sciences (IEM HAS), (HAS fellowship)

### Participation in research projects and fundations:

Therapeutic potential of monoacylglycerol lipase inhibition for the treatment of multiple sclerosis, Carlos Matute and Susana Mato Santos (University of the Basque Country, UPV/EHU, Leioa, Bizkaia, Spain)/Olivier Manzoni (Institut de Neurobiologie de la Méditerranée INSERM U901, Marseille, France), ARSEP Foundation, France (2013-12-01/2014-11-30)

Molecular basis of neurodegeneration and its relevance to neurodegenerative diseases, Carlos Matute Almu (University of the Basque Country, UPV/EHU, Leioa, Bizkaia, Spain), Basque Government, Spain (2013-01-01/2018-12-31)

Molecular mechanisms of white matter damage and protection, Carlos Matute Almu (University of the Basque Country, UPV/EHU, Leioa, Bizkaia, Spain), Ministerio de Ciencia e Innovación MICINN, Spain (2011-01-01/2014-06-30)

Alzheimer disease and other degenerative dementias, Carlos Matute Almu, (University of the Basque Country, UPV/EHU, Leioa, Bizkaia, Spain), CIBERNED, Ministerio de Economía y Competitividad, Spain (2010-01-01)

### **Publications:**

1. Bernal-Chico A, Canedo M, Manterola A, Victoria Sánchez-Gómez M, Pérez-Samartín A, Rodríguez-Puertas R, Matute C, Mato S. **Blockade of monoacylglycerol lipase inhibits oligodendrocyte excitotoxicity and prevents demyelination in vivo.** *Glia*. 63(1): 163-76. Jan 2015. doi: 10.1002/glia.22742.

2. Mato S, Sánchez-Gómez MV, Bernal-Chico A, Matute C. **Cytosolic zinc accumulation contributes to excitotoxic oligodendroglial death.** *Glia*. 61(5): 750-64. May 2013. doi: 10.1002/glia.22470.

3. Fernández-Rebollo E, Lecumberri B, Garin I, Arroyo J, Bernal-Chico A, Goñi F, Orduña R; Spanish PHP Group, Castaño L, de Nanclares GP. **New mechanisms involved in paternal 20q disomy associated with pseudohypoparathyroidism.** *Eur J Endocrinol*. 163(6): 953-62. Dec 2010. doi: 10.1530/EJE-10-0435.

4. Lecumberri B, Fernández-Rebollo E, Sentchordi L, Saavedra P, Bernal-Chico A, Pallardo LF, Bustos JM, Castaño L, de Santiago M, Hiort O, Pérez de Nanclares G, Bastepe M. **Coexistence of two different pseudohypoparathyroidism subtypes (Ia and Ib) in the same kindred with independent Gs{alpha} coding mutations and GNAS imprinting defects.** *J Med Genet*. 47(4):276-80. Apr 2010. doi: 10.1136/jmg.2009.071001.

### **Prizes and awards:**

Best predoctoral poster, ANALYZING THE ROLE OF CB<sub>2</sub> RECEPTORS DURING PRIMARY DEMYELINATION AND REMYELINATION, Spanish Society of Cannabinoid Research (SEIC), 2011

Best predoctoral oral communication, DOSE-DEPENDENT THERAPEUTIC EFFECTS OF THE MAGL INHIBITOR JZL184 IN A CHRONIC MODEL OF MULTIPLE SCLEROSIS, Spanish Society of Cannabinoid Research (SEIC), 2012

Best annual postdoctoral publication, BLOCKADE OF MONOACYLGLYCEROL LIPASE INHIBITS OLIGODENDROCYTE EXCITOTOXICITY AND PREVENTS DEMYELINATION IN VIVO, Spanish Society of Cannabinoid Research (SEIC), 2014

Best biannual postdoctoral publication, BLOCKADE OF MONOACYLGLYCEROL LIPASE INHIBITS OLIGODENDROCYTE EXCITOTOXICITY AND PREVENTS DEMYELINATION IN VIVO, Spanish Glial Network (RGE), 2015