

Carla Álvarez Ferradas

Nacionalidad española, 31 años.

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José Joaquín Pérez 361, Casa B
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Postdoctoral Fellow
PhD in Neuroscience

EDUCATION

2011-2015 PhD in Science, Neuroscience mention.

Doctoral thesis focused in astroglial modulation of synaptic function in healthy and epileptic brain. University of Valparaíso, Chile.

2003-2009 BA in Biologic Science, Neurobiology specialization.

Universidad Complutense de Madrid, España

RESEARCH EXPERIENCE

2015-2016 Postdoc NU-MIND, Centro Interdisciplinario de Neurociencia. Universidad de Valparaíso (CINV), Chile.

Currently, I am working as Postdoc in Dr. Chavez's Lab, director of Núcleo Milenio NU-MIND and principal investigator of CINV. The main investigation area is neuromodulation of synaptic function.

2010-2015 Research assistant. University of Valparaíso

Research assistant and PhD thesis in Synaptic neurophysiology directed by Dr. Christian Bonansco. Centro de Neurobiología y Plasticidad Cerebral.

TEACHING EXPERIENCE

2016 Teacher assistant. Universidad Viña del Mar, Chile.
Neurobiology, Phonoaudiology career.

- 2015** **Teacher assistant. Universidad Viña del Mar, Chile.**
Physiology and physiopathology, Phonoaudiology career.
- 2016** **Teacher assistant. Universidad Viña del Mar, Chile.**
Neurobiology, Phonoaudiology career.
- 2011-2014** **Teacher assistant of practical activities. Universidad de Valparaíso, Chile.**
Master and PhD students of Science, Neuroscience mention.

HONOR AND AWARDS

- 2011-2015** **Mecesup. Doctoral Fellowship for doctoral studies in Chile**
- 2014** **UV Fellowship for congress assistance**
- 2011** **CONICYT Fellowship for assistance to National Scientific Meetings**

PROFESIONAL MEETINGS AND COURSES

- 2014** **Synaptic basis of cognitive dysfunction.** International simposium..
- 2014** **9º International Forum of European Neuroscience Society (FENS).** Poster: Enhanced astroglial calcium signaling upregulates synaptic strength in epileptic brain. Milán, Italia.
- 2013** **International Astrocytes School (IAS).** Bertinoro, Italia.
- 2012** **Neuropharmacology Course. Universidad de Valparaíso.**
- 2012** **I International congress: Federación de Asociaciones Latinoamericanas y del caribe de Neurociencia (FALAN).** Poster: Dysfunctional spontaneous astroglial Ca²⁺ waves upregulate the glutamatergic synaptic efficacy in kindled epileptic rats. Cancún, Méjico.
- 2012** **LV Annual Meeting of Physiology Chilean Society.** Speech: Hiperexcitabilidad astroglial mediada por Ca²⁺ en el hipocampo epiléptico. Puerto Varas, Chile.

SCIENTIFIC PUBLICATIONS

Enhanced astroglial Ca²⁺ signaling increases excitatory synaptic strength at the epileptic brain. Carla Álvarez-Ferradas, Juan Morales, Mario Wellmann, Marco Fuenzalida, Manuel Roncagliolo, Christian Bonansco (2015) *Glia*, 63(9):1507-21 (doi: 10.1002/glia.22817)

A new rapid kindling variant for induction of cortical epileptogenesis in freely moving rats. Juan C. Morales, Carla Álvarez-Ferradas, Mario Wellmann, Manuel Roncagliolo, Marco Fuenzalida and Christian Bonansco (2014) *Frontiers in cellular Neuroscience*, (doi: 10.3389/fncel.2014.00200)

Glutamate released spontaneously from astrocytes set the threshold on synaptic plasticity. Christian Bonansco, Alejandro Couve, Gertrudis Perea, Carla Álvarez Ferradas, Manuel Roncagliolo and Marco Fuenzalida (2011) *European Journal of Neuroscience*, 33(8):1483–92 (doi: 10.1111/j.1460-9568.2011.07631.x)