

Hans Joseph Moldenhauer Barrientos

Personal information

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Academic background

Biochemist	Universidad Austral de Chile	Chile	2001-2009
Degree in Biochemistry	Universidad Austral de Chile	Chile	2001-2009
Ph.D. in Sciences mention in Neuroscience	Universidad de Valparaíso	Chile	2009-2014

Fellowships

2009	Fellowship for PhD in Chile, CONICYT.
2010	Fellowship for intensive English study CORFO 4 months.
2011	Fellowship for support the realization of the Ph.D thesis CONICYT: 2 years.

Scientific publications

2009	ISI	Kinetic validation of 6-NBDG as a probe for the astrocytic glucose transporter GLUT1.	J Neurochem. 2009 May;109.
2011	ISI	Fast and reversible stimulation of astrocytic glycolysis by K ⁺ and a delayed and persistent effect of glutamate.	J Neurosci. 2011 Mar 23;31

2011	ISI	Could an allosteric gating model explain the role of TRPA1 in cold hypersensitivity?	J Neurosci. 2011 Apr 13;31.
2012	ISI	Chapter 11- Mutagenesis and Temperature-Sensitive Little Machines.	Book Biochemistry, Genetics and Molecular Biology "Mutagenesis", Intech open science.
2014	ISI	Directionality of Temperature Activation in Mouse TRPA1 Ion Channel Can Be Inverted by Single-Point Mutations in Ankyrin Repeat Sixs.	Neuron, Vol. 82, Issue 5, p1017–1031
2014	ISI	The pore-domain of TRPA1 mediates the inhibitory effect of the antagonist 6-Methyl-5-(2-(trifluoromethyl)phenyl)-1H-indazole	PloS One. 2014 Sep 2;9(9)

Experimental work

2007-2009	Brain Metabolism research in the laboratory of neurobiology of Dr. Felipe Barros Centro de estudios científicos, CECS, Valdivia.	Study of the coupling between glucose receptor Glut-1 and glutamate receptors in hippocampal astrocytes and neurons.
2009-2014 in progress	Biophysics and electrophysiology research in the laboratory of Dr. Ramon Latorre, Centro interdisciplinario de neurociencias de Valparaíso CINV.	TRPA1: search and characterization of the temperature sensor. TRPM8: search and characterization of the temperature sensor xCaT-1: biophysic characterization of a new TRP channel.
2014- in progress	Biophysics and electrophysiology research in the laboratory of Dr. David Naranjo, Centro interdisciplinario de neurociencias de Valparaíso CINV.	Tetramerization studies of Shaker channel <i>in vivo</i>

Research internship

2011 February to April	Research in the laboratory of Dr. Ardem Patapoutian located at the Scripps Research Institute, San Diego, California, USA. Novartis fundation.	Mutagenesis and screening of TRPA1 ion channel by advanced techniques of molecular biology, for search the temperature sensor.
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Attendance and presentations at conferences

2007	XXI Annual Meeting of the Society of Cell Biology, Chile.	Poster “Acute inhibition of neuronal transport of glucose: pre-synaptic and post-synaptic mechanisms”.
2008	8th International Meeting for Brain Energy Metabolism.	Poster “Neurodegeneration and Regeneration Acute control of astrocytic glucose dynamics by neuronal signals: studies <i>in vitro</i> ”.
2008	XXII Annual Meeting of the Society of Cell Biology, Chile.	Acute modulation of astrocytic metabolism by neural signals.
2014	Workshop: Small Brains Big Ideas, Santiago-Valparaiso, Chile.	Poster “The Fly’s adventure: a test for combinatorial assembly of voltage gated potassium channels <i>in vivo</i> ”.

Academic work

2010- August to December	Neuroscience II.	1 year Psychology, Universidad de Valparaíso.
2011- August to December	Biomedical science II.	1 year Biomedical Engineering, Universidad de Valparaíso.
2012- August to December	Neuroscience II.	1 year Psychology, Universidad de Valparaíso.
2012- August to December	Biomedical science II.	1 year Biomedical Engineering, Universidad de Valparaíso.

Languages

English: oral and written	Intermediate, certified by TOEIC test.
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