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EDUCATION:

- 2018 **Cold Spring Harbor Laboratory**
Postdoctoral Researcher at the Neuroscience Program in the group of Dr. Dinu F. Albeanu. (Current position)
- 2017 **Pontifical Catholic University of Chile**
Ph.D. in Biological Sciences with mention in Physiological Sciences under the supervision of Dr. Felipe A. Court.
- 2010 **Pontifical Catholic University of Chile**
Ph.D. candidate in Biological Sciences with mention in Physiological Sciences under the supervision of Dr. Felipe A. Court.
- 2010 **Pontifical Catholic University of Chile**
M.S. in Biological Sciences with mention in Physiological Sciences under the supervision of Dr. Rodrigo Varas.
- 2008 **Pontifical Catholic University of Chile**
Licentiate in Biological Sciences.
- 2008 **Pontifical Catholic University of Chile**
Bachelor in Sciences.

ACADEMIC EXPERIENCE:

- 2017 **Collaborator Professor at Cell Biology Department. Biological Sciences Faculty. Concepción University. Concepción, Chile.**
- 2017 **Scientific Advisor at Advanced Microscopy Center Bío-Bío (CMA Bío-Bío). Concepción University. Concepción, Chile.**
- 2015 **Assistant Professor and “Integrated Health Sciences” Lectureship at Medical Technology Faculty. Central University. Santiago de Chile.**

- 2014 - 2015 **Associated Professor and “Genetics, Cell and Molecular Biology” Lectureship at Odontology School of Pedro de Valdivia University. Santiago de Chile.**
- 2009 **Student Assistant of “Physiology Laboratory” course at Faculty of Biological Sciences. Pontifical Catholic University of Chile. Santiago de Chile.**
- 2008 **Student Assistant of “Neurophysiology” course at Faculty of Biological Sciences. Pontifical Catholic University of Chile. Santiago de Chile.**

INTERNATIONAL SCHOOLS:

- 2017 **Transylvanian Experimental Neuroscience Summer School (TENSS). Cluj-Napoca, Romania.**
- 2011 **Ricardo Miledi Neuroscience Training Program. Montevideo, Uruguay.**
- 2011 **Neurobiology of Disease SfN Satellite Workshop: The Biology of Glia and Neurons in Autoimmune attack of the CNS. Washington DC, USA.**

AWARDS, HONORS & SCHOOLS:

- 2017 **FENS and IBRO-PERC travel grant.**
FENS. Brussels, Belgium.
Economic support for assistance to TENSS 2017.
- 2015 **International Meetings or School grant for PhD students.**
Pontifical Catholic University. Santiago de Chile.
Economic support for assistance to the 2015 Meeting of the Society for Neuroscience, USA.
- 2014 - 2016 **Internship Fellowship for PhD students.**
Pontifical Catholic University. Santiago de Chile.
Economic support for PhD studies.
- 2013 **Short Events and Courses Grant for PhD students.**
CONICYT. Santiago de Chile.
Economic support for assistance to the 2013 meeting of the Chilean Society of Cell Biology.
- 2011 **Hugo Arechiga Travel Fellowship.**
Society for Neuroscience. Washington DC, USA.
Economic support for assistance to 2011 Meeting of the Society for Neuroscience, USA.

- 2011 **IBRO Travel Fellowship.**
IBRO. Paris, France.
Economic support for assistance to 2011 Meeting of the Society for Neuroscience, USA.
- 2011 **Ricardo Miledi Neuroscience Training Program Grant.**
Society for Neuroscience. Washington DC, USA.
Economic support for assistance to 2011 Ricardo Miledi Neuroscience Training Program.
- 2009 **Short Events and Courses Grant for PhD students.**
CONICYT. Santiago de Chile.
Economic support for assistance to the 2009 meeting of the Chilean Society of Physiology.
- 2009 - 2015 **Chilean PhD Studies Fellowship 2009.**
CONICYT. Santiago de Chile.
Economic support for PhD studies.

MANUSCRIPTS:

Axonal degeneration induced by glutamate-excitotoxicity is mediated by necroptosis.

HERNANDEZ DE, Salvadores NA, Moya-Alvarado G, Catalan R, Bronfman FC and Court FA.

Journal of Cell Science 2018; 131(22): 1-16.

Reactive oxygen species that activate c-Abl signaling trigger motoneuron death in non-cell-autonomous models of ALS.

Rojas F, Figueroa DAG, Almuna NC, Ampuero E, **HERNANDEZ DE**, Fritz E, Abarzua S, Martinez A, Elorza AA, Alvarez A, Court FA and van-Zundert B.

Frontiers in Cellular Neuroscience 2015; 9(203): 1-20.

Calcium release from intra-axonal endoplasmic reticulum leads to axon degeneration through mitochondrial dysfunction.

Villegas R, Martinez NW, Lillo J, Pihan P, **HERNANDEZ D**, Twiss JL and Court FA.

The Journal of Neuroscience 2014; 34(21): 7179-7189.

Disruption in connexin-based communication is associated with intracellular Ca^{2+} signal alterations in astrocytes from niemann-pick type C mice.

Sáez PJ, Orellana JA, Vega-Riveros N, Figueroa VA, **HERNANDEZ DE**, Castro JF, Klein AD, Jiang JX, Zanlungo S and Saez JC.

PLoS One 2013; 8(8): e71361.

Hypoxia in high glucose followed by reoxygenation in normal glucose reduces the viability of cortical astrocytes through increased permeability of connexin 43 hemichannels.

Orellana JA, **HERNANDEZ DE**, Ezan P, Velarde V, Bennett MV, Giaume C and Saez JC.

Glia 2010; 58(3): 329-343.

STI571 prevents apoptosis, tau phosphorylation and behavioural impairments induced by Alzheimer's beta-amyloid deposits.

Cancino GI, Toledo EM, Leal NR, **HERNANDEZ DE**, Yevenes LF, Inestrosa NC and Alvarez AR.

Brain 2008. 131(Pt 9): 2425-2442.

ABSTRACTS:

- 2015** **RIPK1 and RIPK3 delays neurite degeneration but not apoptotic neuronal death in cultured hippocampal neurons exposed to glutamate excitotoxicity.**
Society for Neuroscience. 2017.
HERNANDEZ DE and Court FA.
- 2013** **Necroptosis triggers mitochondrial failure and neurite degeneration in hippocampal neurons subjected to excitotoxicity.**
XXVII Annual Meeting of Chilean Society for Cell Biology. 2013.
HERNANDEZ DE and Court FA.
- 2011** **Activation of α -bungarotoxin-sensitive nicotinic acetylcholine receptors induces release of biogenic amines from the Drosophila brain.**
Society for Neuroscience. 2011.
HERNANDEZ DE, Fuenzalida-Uribe N, Meza RC, Hoffman HA, Campusano JM and Varas R.
- 2009** **La inhibición metabólica aumenta la actividad de hemicanales formados por conexinas en neuronas del hipocampo.**
LII Annual Meeting Chilean Society for Biology. 2009.
HERNANDEZ DE, Vargas A, Riquelme MA, Orellana JA and Sáez JC.
- 2008** **High glucose enhances the effects of oxygen-glucose deprivation on connexin based channels and mortality of cortical astrocytes.**
First IBRO/LARC Meeting of Neuroscience. 2008.
Orellana JA, **HERNANDEZ DE**, Ezan P, Velarde V, Bennett MVL, Giaume C and Sáez JC.
- 2008** **Astroцитos corticales de la enfermedad de Niemann-Pick tipo C manifiestan cambios en sus canales formados por conexina43 similares a los presentes en respuestas neuroinflamatorias.**
First IBRO/LARC Meeting of Neuroscience. 2008.
Sáez PJ, Vega N, **HERNANDEZ DE**, Orellana JA, Castro J, Zanlungo S and Sáez JC.
- 2007** **Intraperitoneal Administration of STI571 Prevents Spatial Memory Impairment Associated to A β Fibrils Injury in Dorsal Hippocampus.**
2nd Meeting Chilean Biology Students Association. 2007.
HERNANDEZ DE, Cancino GI and Alvarez AR.

- 2006** **Intraperitoneal Administration of STI571 Prevents Spatial Memory Impairment Associated to A β Fibrils Injury in Dorsal Hippocampus.**
2nd Annual Meeting Chilean Society for Neuroscience. 2006.
HERNANDEZ DE, Cancino GI and Alvarez AR.
- 2006** **La inhibición del modulo de transducción de señal c-Abl/p73 previene la Apoptosis, la fosforilación de la proteína Tau y el daño a la memoria espacial inducida por fibras A β .**
XX Annual Meeting of Chilean Society for Cell Biology. 2006.
HERNANDEZ DE, Cancino GI and Alvarez AR.