

CURRICULUM VITAE INVESTIGATOR			
PERSONAL DATA			
Father's name Bacigalupo		Name Juan	
Birth date May 5, 1951	Age (at 15/07/2011) 60	Gender (M o F) M	Nationality(ies) Chilean
Title Licentiate in Science Biology		Academic Degree Ph.D. Biology	
Current position Full Professor	Institution (Department, Faculty, Institution) University of Chile, Faculty of Sciences		
Electronic address bacigalu@uchile.cl	Telephone (w/codes) 56 2 9787368	Web Site	
EDUCATION, ACADEMIC AND PROFESSIONAL EXPERIENCE			
<p>Universidad de Chile, Chile, Licentiate in Science, 1975, Biology Brandeis University, USA, PhD, 1983, Biology</p> <p>TRAINING/ACADEMIC EMPLOYMENT 1975-78 Instructor, Department of Biology, Faculty of Sciences, University of Chile 1978-83 Graduate Student, Department of Biology, Brandeis University, Waltham, MA, USA 1984-93 Assistant Professor, Department of Biology, Faculty of Sciences, University of Chile 1984-94 Visiting Research Associate. Department of Biology, Brandeis University. 1993-00 Associate Professor, Department of Biology, Faculty of Sciences, University of Chile 1993-99 Visiting Professor, Institute of Neuroscience, University of Oregon, Eugene, OR, USA. 2000 Full Professor, Department of Biology, Faculty of Sciences, University of Chile 2000-2004 Senior Scientist, Millennium Institute CBB, University of Chile. 2003 Visiting Professor, Griffith University, Brisbane, Australia 2007 Visiting Scholar, Griffith University, Brisbane, Australia</p> <p>HONORS AND AWARDS Fullbright Foundation Travel Fellowship. 1978. Doft Graduate Fellowship, Brandeis University. 1978 1980. Biophysical Society Fellowship, Biophysical Soc. Meeting, San Diego, CA. 1983. Fullbright Foundation Travel Fellowship. 1983. Grass Foundation Fellowship. MBL, Woods Hole, MA, USA. 1984. Tinker Foundation Fellowship. MBL, Woods Hole, MA. USA, 1985. Fundación Andes Research Fellowship. Institute of Neuroscience, University of Oregon, USA. 1993. Fundación Andes Travel Fellowship, II Iberoamerican Congress of Biophysics, Puebla, México. 1993. University of Chile Travel Fellowship, AChemS Meeting, Sarasota, FL, USA. 1995. Presidential Chair in Science. 1997. Rectoral Medal. University of Chile. 1998.</p>			

Rectoral Medal to Full Professorship, University of Chile
Millenium Institute for Cell Biology and Biotechnology. Senior Scientist. 2000.
Sir Allen Sewell Award, Griffith University, Brisbane, Australia. 2003
Fellow of the John S. Guggenheim Memorial Foundation, USA, 2006
Millenium Institute for Cell Dynamics and Biotechnology. Senior Scientist. 2007.
Member of the IBRO Workshop & Simposia Funding Programme Committee. 2001-
Member of the IBRO Nominating Committee. 2009-
Visiting Scholar, University of Colorado Denver, 2010.

THESIS ADVISORY AND TRAINING:

Postdoctorals (3), Graduated Doctors (11), Doctorals in progress (2).

Member of the Editorial Board of the Journal Biological Research

MAIN PUBLICATIONS IN MEDIA WITH EDITORIAL COMMITTEE

Delgado, R, Bacigalupo, J. (2004) Cilium-attached and excised patch-clamp recordings of odorant activated Ca²⁺-dependent K⁺ channels from chemosensory cilia of olfactory receptor neurons. *Eur. J. Neurosci.* 20: 2975-2980.

Schmachtenberg, O, Bacigalupo, J. (2004) Olfactory transduction in ciliated receptor neurons of the Cabinza grunt, *Isacia conceptionis* (Teleostei: Haemulidae). *Eur. J. Neurosci.* 20: 3378-3386.

Castillo, K, Bacigalupo, J, Wolff, D. (2005) Ca²⁺-dependent K⁺ channels of rat olfactory cilia: Characterization in planar lipid bilayers. *FEBS Lett.* 579: 1675-1682.

Ugarte G, O'Day PM, Bacigalupo J, Vergara C. (2005) A CLC-2-like chloride conductance in *Drosophila* photoreceptors. In *Pumps, Transporters and Ion Channels*, F. Sepulveda and F. Bezanilla, Eds. Kluwer Academic/Plenum Publishers. Ch. 16, pp 157-164

Madrid, R, Delgado, R, Bacigalupo, J. (2005) A cyclic AMP cascade mediates the inhibitory odor response of isolated toad olfactory receptor neurons. *J. Neurophysiol.* 94: 1781-1788.

Sanhueza, M, Bacigalupo J. (2005) Intrinsic subthreshold oscillations of the membrane potential in pyramidal neurons of the olfactory amygdala. *Eur. J. Neurosci.* 22:1618-1626.

Ugarte, G, Delgado, R, O'Day, PM, Farjah, F, Vergara, C, Bacigalupo, J. (2005) A CLC-2-like chloride channel mediates inward rectification in *Drosophila* retinal photoreceptors. *J. Memb. Biol.* 207: 151-160.

Mura, CV, Delgado, R, Aguirre, P, Bacigalupo J, Núñez MT. (2006) Quiescence induced by iron challenge protects neuroblastoma cells from oxidative stress. *J. Neurochem.* 98: 11-19.

Brauchi S, Cea C, Bacigalupo J, Reyes, J. (2006) Apoptosis induced by prolonged exposure to odorants in cultured cells from rat olfactory epithelium. *Brain Research.* 1103: 114-122.

- Sülz, L., Bacigalupo, J. (2006) Role of nitric oxide during neurogenesis in the olfactory epithelium. *Biol. Research*. 39: 589-599.
- Diaz J, Razeto P, Letelier JC, Caprio J, Bacigalupo J. (2007) Amplitude modulation patterns of local field potentials reveal asynchronous neuronal populations. *J. Neurosci*. 27: 9238-9245.
- Castillo K, Delgado R, Bacigalupo J. (2007) Plasma Membrane Ca²⁺-ATPase in the Cilia of Olfactory Receptor Neurons: Possible role on Ca²⁺ clearance. *Eur J Neurosci*. 26: 2524-2531.
- Astorga G, Bacigalupo J. (2008) TRP channels as biological sensors. *Physiological Mini-reviews* 3: 25-33.
- Saavedra MV, Smalla K-H, Thomas U, Sandoval S, Olavarria K, Castillo K, Delgado MG, Delgado R, Gundelfinger E, Bacigalupo J, Wyneken U. (2008) Scaffolding proteins are present in highly purified rat olfactory cilia membranes. *NeuroReport*. 19: 1123-1126.
- Sülz, L, Astorga, G, Bellette B, Iturriaga, R, Mackay-Sim, A, Bacigalupo (2009) J. Nitric oxide regulates neurogenesis in adult olfactory epithelium in vitro. *Nitric Oxide B CH*. 20: 238-252.
- Delgado R, Bacigalupo J. (2009) Unitary recordings of TRP and TRPL channels from isolated *Drosophila* retinal photoreceptors rhabdomeres: Activation by light and lipids. *J Neurophysiol* 101:2372-2379.
- Castillo K., Restrepo D., Bacigalupo J. (2010) Cellular & molecular Ca²⁺-microdomains in olfactory cilia support low signaling amplification of odor transduction. *European Journal of Neuroscience* 32,932-938
- Nunez-Parra, A., Cortes-Campos, Chr., Bacigalupo, J., Garcia, M., Nualart, F. and Reyes, J.G. (2011) Expression and Distribution of Facilitative Glucose (GLUTs) and Monocarboxylated/H⁺ (MCTs) Transporters in Rat Olfactory Epithelia. *Chemical Senses Advance*, Doi: 10.193/chemse/bjr052
- Bacigalupo J. Chile bajo la Mirada de Charles Darwin. In *Darwin y la evolución: avances en la Universidad de Chile*. Veloso A, Spotorno A, Ed. Editorial Universitaria, Chile. En Prensa.