

Principal Investigator/Program Director (Last, first, middle):

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
Palacios, Adrián Galo	Professor of Neuroscience

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Sorbonne University Paris V	BS	1982	Psychology
Pierre et Marie Curie University Paris VI	PhD	1991	Neuroscience
Yale University (TH Goldsmith Lab)	Postdoctoral / Research Assistant	1991-1996	Sensory Neuroscience
Harvard University (John Dowling Lab)	Visiting Research	2000 (three months)	Sensory Neuroscience

A. Position and Honors

Positions and Employment

1996- Professor, Valparaiso University, Faculty of Science.

Other Experience and Professional Memberships

2003- Neurosciences French Society, France

2002- Director of Neuroscience PhD Program, U of Valparaiso, Chile

2000-2002 Director of Master degree in Neuroscience, U of Valparaiso, Chile

2002- Animal Behavior Society, USA

2001- Journal Associate Editor, Biological Research

2000- The International Society for Neurochemistry, USA

1993- Chilean Physiological Society

1991- Society for Neuroscience, USA

Honors

2003- Fellow of the Center for Advanced Studies in Ecology & Biodiversity (CASEB)

2001. Visiting Research, Molecular Cellular Biology Labs, John Dowling lab, Harvard U, January-April

1998. Visiting Professor, Mind / Brain Institute, Johns Hopkins U, October - November

1993-1997. Associate Research Scientist, Yale U, EEUU.

1991-1992. Postdoctoral Associate, Yale University, EEUU.

1990 Postdoctoral Fellow, Yale U, EEUU.

1990 Postgraduate Fellowship Fundación Philippe y Fundación Simone & Cino del Duca, Francia.

B. Peer-reviewed publications

- 1] M'Harzi M, Palacios A, Monmaur P, Houcine O, Delacour J (1987) Effects of selective lesions of hippocampal connections on learning set in the rat. *Physiology & Behavior* 40:181-188.
- 2] Willig F, Palacios A, Monmaur P, Laurent J, Delacour J (1987) Short-term memory exploration and locomotor activity in aged rats. *Neurobiology of Aging* 8:393-402.
- 3] Palacios A, Martinoya C, Bloch S, Varela F (1990) Color mixing in the Pigeon: A psychophysical determination in the longwave spectral range. *Vision Research* 30:587-596.
- 4] Palacios A, Bonnardel V, Varela F (1990) An autoshaping method for wavelength discrimination in birds. *Compte Rendu de l'Academie des Sciences, Paris*, 311(III) :213-218.

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- 5] Palacios A, Gioanni H, Varela F (1991). Chromatic discrimination in Pigeons after thalamic lesions of nuclei Rotundus (Rt) and Geniculatus Lateralis ventralis (GLv): a psychophysical study *Compte Rendu de l'Academie des Sciences, Paris*, 312(III):113-116.
- 6] Gioanni H, Palacios A, Sansonetti A, Varela F (1991) Role of the nucleus geniculatus lateralis ventralis (GLv) in the optokinetic reflex: a lesion study in the pigeon. *Experimental Brain Research*, 86:601-607.
- 7] M'Harzi M, Jarrard LE, Willig F, Palacios A, Delacour J (1991) Selective fimbria and thalamic lesions differentially impair forms of working memory. *Behavior and Neural Biology*, 56:221-239.
- 8] Thompson E, Palacios A, Varela F (1992) Ways of coloring: Comparative color vision as case study for cognitive science. *Behavioral and Brain Sciences*, 15:1-25.
- 9] Thompson E, Palacios A, Varela F (1992) On the ways to color: Authors response. *Behavioral and Brain Sciences*, 15:56-74.
- 10] Palacios AG, Varela FJ (1992) Color mixing in the pigeon (*Columba livia*) II: A psychophysique determination in the middle, short and near-UV wavelength range. *Vision Research*, 32:1947-1953.
- 11] Palacios AG, Goldsmith TH (1993) Photocurrents in retinal rods of Pigeons (*Columba livia*): Kinetics and spectral sensitivity. *Journal of Physiology (London)*. 471:817-829.
- 12] Varela FJ, Palacios AG, Goldsmith TH (1993) Color vision of birds: In *Vision, brain and behavior of birds* 5:77-98. ed. Zeigler H. P., Bischof H. J., MIT Press, Cambridge
- 13] Zeigler HP, Jager R, Palacios AG (1993) Sensorimotor mechanisms and pecking in the pigeon. In *Vision, brain and behavior of birds*. 15:265-283. ed. Zeigler H. P., Bischof H. J., MIT Press, Cambridge
- 14] Palacios AG, Goldsmith TH, Bernard G (1996) Sensitivity of cones from a cyprinid fish (*Danio aequipinnatus*) to ultraviolet and visible light. *Visual Neurosciences*. 13:411-421.
- 15] Palacios AG, Goldsmith TH (1996) Visual transduction in vertebrates rods. *Biol Res*. 29(3):195-198.
- 16] Roessel van P, Palacios AG, Goldsmith TH. (1997) Activity of long-wavelength cones under scotopic conditions in the cyprinid fish *Danio aequipinnatus*. *Journal of Comparative Physiology A*. 181:493-500.
- 17] Palacios AG, Srivastava R, Goldsmith TH. (1998). Spectral and polarization sensitivity of photocurrents of amphibian rods in the visible and ultraviolet. *Visual Neuroscience*. 15:319-331.
- 18] Palacios AG, Varela FJ, Srivastava R, Goldsmith TH. (1998) Spectral sensitivity in cones in the goldfish, *Carassius auratus*. *Vision Research*. 38:2135-2146.
- 19] Francisco Palma, Pablo Roncagliolo, Juan Bacigalupo, Adrián G. Palacios. (2001). Membrane current of retinal rods of *Caudiverbera caudiverbera* (Amphibia: Leptodactylidae): Dark noise, spectral and absolute sensitivity. *Visual Neuroscience*, 18:663-673.
- 20] Thompson E, Palacios A, Varela F (2002) Ways of coloring: Comparative color vision as case study for cognitive science. In *Vision and Mind: Selected Readings in the Philosophy of Perception*. Ed. by A. Noe, E. Thompson. Chap. 15:351-418. MIT Press, Cambridge, USA.
- 21] Andrés E. Chávez, Francisco Bozinovic, Leo Peichl, Adrián G. Palacios. (2003) Reflectance In The Genus *Octodon* (Rodentia): Implications For Visual Ecology Retinal Spectral Sensitivity, Fur Coloration And Urine. *Investigative Ophthalmology Visual Science*. Vol 44(5):2290-2296.
- 22] Andrés E. Chávez, Manuel Roncagliolo, Heidrun Kurth, Andreas Reichenbach, Adrián G. Palacios. (2003). The Retinal Anatomy and Function of the Myelin Mutant *Taiep* Rat. *Brain Research*. Vol 964(1):144 -152.
- 23] Adrián G. Palacios, Francisco Bozinovic (2003). An "Enactive" Approach to Physiological & Behavioral Ecology: Thoughts on the table. *Biological Research*. 36(1):95-99.
- 24] Adrián G. Palacios, Juan Bacigalupo (2003). Francisco Varela (1946-2001): Filling the Mind – Brain Gap: A Life Adventure. *Biological Research*. 36(1):3-6.
- 25] Andrés E. Chávez, Thomas Pannicke, Manuel Roncagliolo, Andreas Reichenbach, Adrián G. Palacios. (2004). "Electrophysiological Properties of Retinal Müller Glial Cells from a Myelin Mutant Rat" *Glia*. 2004 Mar;45(4):338-45.
- 26] Herrera G., Fernández MJ, Pohl N., Díaz M., Bozinovic F., Palacios AG. (2004). Sistema Visual en el Colibrí Austral (*Sephanoides sephanioides*) y el Picaflor Cordillerano (*Oreotrochilus leucopleurus*): Electroretinografía y Coloración. *Ornitología Neotropical* 15 (suppl.). 215-222.
- 27] Palacios, A., L. Peichl et F. Bozinovic (2004) *La vision ultraviolette du rat degus*. *Pour la Science Cerveau & Psycho*; 5: 92-95.
- 28] Leo Peichl, Andres E. Chavez, Adrian Ocampo, Wilson Mena, Francisco Bozinovic, Adrian G. Palacios (2005). Eye and Vision in the Subterranean Rodent Cururo (*Spalacopus Cyanus*, Octodontidae). *The Journal of Comparative Neurology*. 486(3) :197-208.
- 29] Ocampo-Garcés A, Hernández F, Mena W, Palacios AG Wheel-running and rest-activity pattern interaction in two octodontids (*Octodon degus*, *Octodon bridgesi*). In press *Biol. Res*.
- 30] Ocampo-Garcés A, Mena W, Hernández F, Cortés N, Palacios AG. Circadian chronotypes among wild captured west-andean octodontids. In press. *Biol. Res*.

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B. Research Support

Compleat Research Support

2004-2008 Neuronal visual processing in Octodon degus retina. PI. Fondecyt #1040309.

2001-2004 Mentor Postdoctoral Fellow # 3010028 from Fondecyt. Dr. Adrián Ocampo.

1999-2003 (March) ECOS / CONICYT C99B02. PI. Travel grant. Macular disease and retinal synaptic plasticity.

1999-2003 (March). Tecto fugal visual pathway in bird. COI. Fondecyt #1990045. PI Dr. J.Mpodozis

2000-2003 (March). Neuronal process in vertebrate retina. PI. Fondecyt # 1000396.

2000-2003 Pineal gland development in zebrafish. COI. Fondecyt #1000879, PI Dr. Miguel Allende.

1997-2000 Physiological and ecological bases in vertebrates' photoreceptors. PI. Fondecyt #1970162.