

Angelina Palacios-Muñoz

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PROFILE

I am a motivated biochemistry and PhD in Science, Neuroscience mention. I have research experience in visual system, cell signaling, genetics and biological rhythms. I am organized, self-motivated and I have exceptional communication and analytical skills. I am able to work well under pressure and adhere to strict deadlines. I have proficient speech, reading and writing in English.

EDUCATION

PhD in Science, Neuroscience mention (2009- 2015)

University of Valparaiso, Chile

Professional Certificate in Biochemistry (2006-2007)

Pontifical Catholic University of Valparaíso, Valparaíso, Chile

Bachelor in Science (2000-2005)

Pontifical Catholic University of Valparaíso, Valparaíso, Chile

RESEARCH EXPERIENCE

Postdoctoral Fellow (June 2015- Present)

Laboratory of Neurogenetics and Development

Interdisciplinary Center of Neuroscience of Valparaíso, University of Valparaíso, Chile

Principal Investigator: Dr. John Ewer.

- Study of circadian rhythms in *Drosophila melanogaster*.

PhD Thesis: “Role of calcium and cAMP signaling in the prothoracic gland in the circadian timing of *Drosophila* emergence” (March 2010 – May 2015)

Interdisciplinary Center of Neuroscience of Valparaíso, University of Valparaíso, Chile

Advisor: Dr. John Ewer

- Role of calcium signaling in the molecular mechanism of the clock in the prothoracic gland and its possible role in the timing of eclosion behavior.
- Role of cAMP signaling in the molecular mechanism of the clock in the prothoracic gland and its possible role in the timing of eclosion behavior.

Research Assistant, Eco vision's Lab (July 2007 – February 2009)

Interdisciplinary Center of Neuroscience of Valparaíso, University of Valparaíso, Chile
Principal Investigator: Dr. Adrián Palacios

- Function of the cannabinoid receptor in the retina of rat.
- Lab manager.

Biochemistry Thesis: “Connexin-36 and its role in the synaptic transmission in the retina of *Octodon degus*” (March 2006 – June 2007)

Interdisciplinary Center of Neuroscience of Valparaíso, University of Valparaíso, Chile
Advisor: Dr. Adrián Palacios

- Expression, localization and function of connexin- 36, -43 and -45 in the retina of *Octodon degus*, a diurnal endemic rodent of Chile.
- Comparison of the expression and function of gap junctions between *Octodon degus* and rat, diurnal and nocturnal model, respectively.

TECHNICAL SKILLS

- Cell biology, molecular biology, gene expression, circadian behavior, biochemistry, immunocytochemistry, immunohistochemistry, imaging, cell culture and molecular cloning.

TEACHING EXPERIENCE

Instructor for Science II course (April 2014-July 2014)

Liberal Arts Department, Adolfo Ibáñez University, Viña del Mar, Chile.

- Gave general biology lectures to non-scientific audiences (law and business engineer students). Designed a syllabus that covered topics such as the scientific method, scientific publications and basic vs. applied sciences.

Teaching Assistant (2006-2013)

Pontifical Catholic University of Valparaíso, University of Valparaiso and Adolfo Ibáñez University, Chile.

- TA for various professors and courses (General Science, Biochemistry, Neuroscience, *Drosophila* Genetics, Electroretinogram technique).
- Delivered lectures, planned and executed laboratory workshops, mentor students, designed and graded test and exams.

OUTREACH

Management of “Ciencia Altiro science outreach program”

Interdisciplinary Center of Neuroscience of Valparaíso, University of Valparaíso, Chile.
(2015-Present)

Director: Dr. Kathleen Whitlock. Web-page: www.ciencialtiro.cl

- Organized workshops of science for teachers of socially vulnerable public schools in the neighborhood of our university.

Active member of “Ciencia Altiro science outreach program”

Interdisciplinary Center of Neuroscience of Valparaíso, University of Valparaíso, Chile.
(2009-2014)

- Organized workshops for eighth grade students at socially vulnerable public schools in the neighborhood of our university.

INTERNSHIPS

Biochemistry Intern (2005-2006)

Hospital José Joaquín Aguirre, University of Chile, Chile

RESEARCH PUBLICATIONS

1. Isaac E. García, Jaime Maripillán, Oscar Jara, Ricardo Ceriani, **Angelina Palacios-Muñoz**, Jayalakshmi Ramachandran, Pablo Olivero, Tomás Pérez-Acle, Carlos González León, Juan Carlos Sáez, Jorge E. Contreras, Agustín D. Martínez. (2015). Keratitis-Ichthyosis-Deafness syndrome-associated Cx26 mutants produce non-functional gap junctions but hyperactive hemichannels when co-expressed with wild type Cx43. *Journal of Investigative Dermatology*. doi:10.1038/jid.2015.20
2. **Palacios-Muñoz A**, Escobar MJ, Vielma A, Araya J, Astudillo A, Valdivia G, García IE, Hurtado J, Schmachtenberg O, Martínez AD and Palacios AG. (2014). Role of connexin channels in the retinal light response of a diurnal rodent. *Front. Cell. Neurosci.* **8**:249. doi: 10.3389/fncel.2014.00249

CONFERENCES

1. **Angelina Palacios-Muñoz**, Alex H. Vielma, Adrián G Palacios and Andrés E Chávez. Cannabinoid receptor activation modulate the temporal properties of scotopic visual signal in rat retina. XI Reunión anual de la sociedad chilena de neurociencia, 22-25 de Septiembre 2015, Coquimbo, Chile.
2. **Angelina Palacios-Muñoz** and John Ewer. *Role of Calcium and cAMP signaling in the prothoracic gland, in the circadian timing of Drosophila*

emergence. SRBR 2014, Society for research on biological rhythms, Big Sky, Montana, USA.

3. **Palacios-Muñoz A**, Vielma A, Araya J, Astudillo A, Valdivia G, Hurtado J, Schmachtenberg O, Martínez A, Escobar M and Palacios A. Role of connexin channels in the retinal light response of a diurnal rodent. Society for Neuroscience, November 15-19, Washington DC, USA.
4. **Angelina Palacios-Muñoz** and John Ewer. *Role of Calcium and cAMP signaling in the prothoracic gland, in the circadian timing of Drosophila emergence*. 23rd European *Drosophila* Research Conference, Barcelona, España, 2013.
5. **Angelina Palacios-Muñoz** and John Ewer. *Role of Calcium and cAMP signaling in the prothoracic gland, in the circadian timing of Drosophila emergence*. **Ultra short presentation of pre-selected young investigators**. XII Latin American Symposium On Chronobiology, Mendoza, Argentina, 2013.
6. Carola Millan, **Angelina Palacios-Muñoz**, Lilian Ubillo, Brandon Mark, Felipe Conejera, Steren Chabert, and John Ewer. *Circadian Regulation of Drosophila Adult Emergence through the interactions between a Central and a Peripheral Clock*. XII Latin American Symposium On Chronobiology, Mendoza, Argentina, 2013.
7. **Angelina Palacios-Muñoz** and John Ewer. *Calcium and cAMP signaling in the prothoracic gland and its role in the circadian timing of Drosophila eclosion*. 53rd Annual *Drosophila* Research Conference. Sheraton Chicago Hotel & Towers, Chicago, IL, March 7-11, 2012.
8. **Angelina Palacios-Muñoz** and John Ewer. *Calcium and cAMP signaling in the prothoracic gland and its role in the circadian timing of Drosophila eclosion*. Chilean Society for Cell Biology XXV Annual Meeting, Puerto Varas, Chile, November 1-5, 2011.
9. **Angelina Palacios-Muñoz** and John Ewer. *Calcium and cAMP signaling in the prothoracic gland and its role in the circadian timing of Drosophila eclosion*. 5th International Meeting of the Latin American Society for Developmental Biology, Santa Cruz, Colchagua, Chile, 2010.
10. Carola Millán, **Angelina Palacios-Muñoz**, Felipe Conejera, John Ewer. *Reloj circadiano: mecanismos que imponen ritmicidad a la conducta de eclosión en Drosophila*. XXIII Reunión anual de la Sociedad de biología Celular de Chile, Pucón, Chile, 2009.
11. **Angelina Palacios-Muñoz**, Carola Millán y John Ewer. *Genes Halloween y su rol en la regulación circadiana de la eclosión en Drosophila melanogaster*. XXIII Reunión anual de la Sociedad de biología Celular de Chile. Pucón, Chile, 2009.
12. Pedro Martínez, **Angelina Palacios-Muñoz**, Erick Olivares, Claudio Elgueta, Agustín D. Martínez, Adrián G. Palacios. *Signaling in the retina of diurnal and*

nocturnal rodents mediate by retinal gap junctions. European Retina Meeting, October 8-10, Oldenburg, Alemania, 2009.

13. Carola Millán, **Angelina Palacios-Muñoz** and John Ewer. *Halloween genes and PTH signaling-Role in circadian regulation of adult emergence*. Neurobiology of Drosophila. Cold Spring Harbor, New York, USA, 2009.
14. Carolina Soto, **Angelina Palacios-Muñoz** and Adrián Palacios. *OFF-response of the photopic electroretinogram in Octodon degus*. I Congreso de Neurociencias de AL, Caribe y Península Ibérica. Buzios, RJ, Brasil, 2008.
15. **Angelina Palacios-Muñoz**, Chávez AE, Palacios AG. *Activación de los receptores canabinoides (CB1) modulan las propiedades temporales de las señales visuales escotópicas en la retina de mamíferos*. LI Reunión Anual de la Sociedad de Biología de Chile, Pucón, Chile, 2008.
16. **Angelina Palacios-Muñoz**, Martínez Agustín & Palacios Adrián. *Expresión de Conexina-36 y su participación en la transmisión sináptica en retina de Octodon degus*. III Reunión de la Sociedad Chilena de Neurociencia, Los Andes, Chile, 2007.
17. Andrés E. Chávez, **Angelina Palacios-Muñoz**, and Jeffrey S. Diamond. *Cannabinoid receptors modulate GABAergic feedback inhibition in rat retina*. 37th Annual Meeting of the Society for Neuroscience, Neuroscience Meeting, San Diego, USA, 2007.

COURSES

1. International Course: Small Brain, Big Ideas; Biomedical Insights from Invertebrate Neuroscience Research. University of Chile, Santiago de Chile, October 25-30th, 2010.
2. International Course: Advanced Insect Development Genetics and Genomics. University of Chile, Santiago de Chile, December 2-12th, 2009.

AWARDS, FELLOWSHIPS AND HONORS

1. Competitive Trainee Travel Award to attend to SRBR 2014, Big Sky Montana, USA (Society for Research on Biological Rhythms) (2014).
2. Competitive Travel funding to visit Big Sky, Montana, USA. (Office of Naval Research (ONR) Global, Science & Technology, US Navy) (2014).
3. Competitive doctoral Fellowship "Apoyo Tesis Doctoral" CONICYT (Chilean Governmental Agency for Science and Technology) (2011-2012).
4. Competitive Fellowship to attend to "53rd Annual *Drosophila* Research Conference", Chicago, IL, USA. MECESUP (Fellowship of the University of Valparaíso) (March 7-12, 2012).

5. Competitive Fellowship for Doctoral Studies in Chile CONICYT (2010-2013).
6. Competitive Fellowship for Doctoral Studies in Chile MECESUP (2009-2010).