

Angelina Palacios Muñoz, Ph.D.

Faculty of Dentistry
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Scientific statement

I have a broad research experience in the nervous system, cell signaling, molecular biology, genetics, biological rhythms, sleep behavior, anxiety-like and social behavior, and model organisms such as the rat, mice, and the fruit fly *Drosophila melanogaster*. My scientific contributions have been centered on understanding how the circadian clock imposes daily rhythmicity on behavior. Recently, I have become interested in researching the impact on the nervous system function of gene mutations associated with autism spectrum disorder. Most of my investigation uses *Drosophila* as a model organism in biomedical research thanks to its powerful genetic tools and a battery of sophisticated behavioral tests. Currently, I am exploring the impact on the behavior, development, and aging of mutations that in humans are associated with psychiatric and mental disorders.

Education

Ph.D., Sciences mention Neurosciences, Faculty of Sciences, Universidad de Valparaíso, 2015
Valparaíso, Chile

Thesis Title: Role of Calcium and cAMP Signaling in the Prothoracic Gland in the Circadian Timing of *Drosophila* Emergence. Advisor: John Ewer, PhD.

Degree Biochemistry, Pontificia Universidad Católica de Valparaíso, Valparaíso, Chile 2007

Postdoctoral Training

Fellowship, Centro Interdisciplinario de Neurociencia de Valparaíso, Valparaíso, Chile 2019

Postdoctoral Fellow/Scholar 2016–2018
Supervisor: Francisco Aboitiz, PhD.
Departamento de Psiquiatría, Laboratorio de Neurociencias, Faculty of medicine,
Pontificia Universidad Católica de Chile, Santiago, Chile

Academic Appointments

Assistant Professor 2020–present
Faculty of Dentistry, Universidad de Valparaíso, Valparaíso, Chile

Other Positions and Employment

Investigator at Centro Interdisciplinario de Neurociencia de Valparaíso, Valparaíso, Chile	2020–present
Instructor in biology and biochemistry, Departamento de Odontología, Faculty of dentistry, Universidad de Valparaíso, Valparaíso, Chile	2019
Instructor for core in Science course, Departamento de Artes Liberales, Universidad Adolfo Ibáñez, Viña del mar, Chile	2019
Instructor for Genetics course, Departamento de Artes Liberales, Universidad Adolfo Ibáñez, Viña del mar, Chile	2019
Managment of Ciencia Altiro Science Outreach Program. Centro Interdisciplinario de Neurociencia de Valparaíso, Facultad de Ciencias, Universidad de Valparaíso, Valparaíso, Chile. Director: Kathleen Whitlock, PhD.	2015
Instructor for Science course, Departamento de Artes Liberales, Universidad Adolfo Ibáñez, Viña del mar, Chile	2014-2015
Research Assistant, Eco Vision's Lab, Centro Interdisciplinario de Neurociencia de Valparaíso, Faculty of sciences, Universidad de Valparaíso, Valparaíso, Chile. Principal Investigator: Adrián Palacios, PhD.	2007-2009

Teaching

Graduate programs

- Faculty of medicine, Universidad de Valparaíso, Ph.D. Program in Health Sciences and Engineering (invited)
- Faculty of sciences, Universidad de Valparaíso, Master's program in Biological Sciences Neuroscience mention (Member of Academic Committee)
- Faculty of dentistry, Universidad de Valparaíso, Master's program in Dental Sciences, Molecular Biology (lecturer)
- Faculty of dentistry, Universidad de Valparaíso, Orthodontics Specialty Program, Research Methodology (lecturer)

Undergraduate programs

- Faculty of dentistry, Universidad de Valparaíso, Science Course I and II (lecturer and coordinator)
- Faculty of dentistry, Universidad de Valparaíso, Normal and pathological metabolism I and II (lecturer)
- Faculty of dentistry, Universidad de Valparaíso, Systematization and Scientific Communication (lecturer)

- Faculty of chemical sciences and pharmacy, Universidad de Valparaíso, Bibliographic seminars Course (lecturer)

Current and past Mentoring

Master's thesis

- Carla Loezar (Faculty of Sciences, Universidad de Valparaíso, joined 2022)

Undergraduate students

- Gabriel Zamorano (Faculty of chemical sciences and pharmacy, Universidad de Valparaíso, scheduled to graduate 2023)
- Consuelo Gallardo (Faculty of dentistry, Universidad de Valparaíso, scheduled to graduate 2023)
- Fernanda Parada (Faculty of dentistry, Universidad de Valparaíso, scheduled to graduate 2023)
- Zayra Valdebenito (Faculty of dentistry, Universidad de Valparaíso, scheduled to graduate 2023)
- Sebastián Guerra (Faculty of dentistry, Universidad de Valparaíso, graduated 2022)
- Alejandra Montoya (Faculty of dentistry, Universidad de Valparaíso, graduated 2022)
- Nicolas Salazar (Faculty of dentistry, Universidad de Valparaíso, graduated 2022)
- Javiera Ruiz (Faculty of dentistry, Universidad de Valparaíso, graduated 2022)
- Priscilla Saavedra (Faculty of dentistry, Universidad de Valparaíso, graduated 2022)

Other Experience and Professional Memberships

Member of Academic Committee Master's degree in Biological Sciences Mention Neuroscience, Faculty of Sciences, Universidad de Valparaíso, Chile	2023-present
Member of the Academic Council of Journal in digital format of the University of Valparaíso, Universidad de Valparaíso, Chile	2023-present
President of Ethics and Good Practices Committee of the Centro Interdisciplinario de Neurociencia de Valparaíso, Valparaíso, Chile	2022-present
Active member of the Thesis Committee of the Faculty of dentistry, Universidad de Valparaíso, Valparaíso, Chile	2020-present
Member, Society for Research on Biological Rhythms (SRBR)	2016-present

Scientific consultant and collaborator of the Nodo CIV-VAL, for the identification of gaps and challenges of the CTCi ecosystem of the Central Macrozone 2020-2021

Member of Awards Committee: Trainee and Travel Awards of the Society for Research on Biological Rhythms (SRBR) 2019-2020

Editorial Work

Frontiers in Physiology section Chronobiology (Review Editor, Editorial Board) 2020-present
<https://loop.frontiersin.org/people/649730/overview>

Invited Courses

- EMBO Global Lecture Course “Small brains, big Ideas”, from 20-28 October 2022 in Las Cruces, Chile. Courtship Behavior, Practical Course. Faculty. The Biannual “Small Brains, Big Ideas” Course first took place in Santiago, Chile, October 2010 and has been offered every 2 years ever since. So far it has successfully trained over 100 Latin-American students in recent advances and modern techniques in neurosciences, primarily focusing on the use of *Drosophila melanogaster* and *Caenorhabditis elegans*, Monarch butterflies, and bees, for biomedical research. <https://smallbrains.org/web/about-us/faculty/>

Research support

Ongoing

- 2019-2023 FONDECYT INICIACIÓN #11190601 (Principal Investigator) **Project ranked number one in the study section (Medicina G1)**

Past

- 2022 Proyecto Apoyo a los Centros de Excelencia, código ACE210014, Financiado ICM-ANID, CINV. Proyecto puente: El citoesqueleto de actina: potencial diana terapéutica en sinaptopatía centrales y periféricas (Principal Investigator)
- 2022 Proyecto Apoyo a los Centros de Excelencia, código ACE210014, Financiado ICM-ANID, CINV. Proyecto puente: Genetic analysis of mesencephalic astrocyte-derived neurotrophic factor (MANF) function in *Zebrafish* and *Drosophila* (Principal Investigator)
- 2015-2018 FONDECYT Postdoctoral #3160177 (Principal Investigator)
- 2016-2021 Centro Interdisciplinario de Neurociencia de Valparaíso (CINV) Millennium Institute grant. P09-022-F (Postdoctoral Research)
- 2015-2016 Office of Naval Research (ONR), US NAVY, USA. (Postdoctoral fellow)

Research publications

1. **Angelina Palacios-Muñoz**^{*†}, Danielle de Paula Moreira^{*}, Valeria Silva, Isaac E García, Francisco Aboitiz, Mehdi Zarrei, Olivia Rennie, Jennifer L Howe, Evdokia Anagnostou, Stephen W Scherer, Maria Rita Passos-Bueno[†] and John Ewer[†]. (2022). Mutations in *trpγ*, the homologue of *TRPC6* autism candidate gene, causes autism-like behavioral deficits in *Drosophila*. **Molecular Psychiatry**. May 2. Doi: 10.1038/s41380-022-01555-1. [*] Equal contribution. [†] Co-corresponding author.
2. Valeria Silva^{*}, **Angelina Palacios-Muñoz**^{*}, Mariano Volanté, Lia Frenkel, John Ewer and Sheila Ons (2021). Orcokinin neuropeptides inhibit courtship and regulate other innate behaviors in the fruit fly, *Drosophila melanogaster*. **Insect Biochemistry and molecular biology**. Volume 139, December 2021, 103676. Doi: 10.1016/j.ibmb.2021.103676. [*] Equal contribution.
3. Valeria Silva, **Angelina Palacios-Muñoz**, Zeynep Okray, Karen L. Adair, Scott Waddell, Angela E. Douglas and John Ewer. (2021). The impact of the gut microbiome on memory and sleep in *Drosophila*. **Journal of Experimental Biology**. 2021 Feb 5;224 (Pt 3): jeb.233619. Doi: 10.1242/jeb.233619.
4. **Angelina Palacios-Muñoz** and John Ewer. (2018). Calcium and cAMP directly modulate the speed of the *Drosophila* circadian clock. **PLoS Genetics**. Jun 7;14(6):e1007433. doi: 10.1371/journal.pgen.1007433.
5. Mareike Selcho^{*}, Carola Millán^{*}, **Angelina Palacios-Muñoz**^{*}, Lilian Ubillo, Jiangtian Chen, Franziska Ruf Chihiro Ito, Christian Wegener, and John Ewer. (2017). Central and peripheral clocks are coupled by a neuropeptide pathway in *Drosophila*. **Nature Communications**. May 30; 8:15563. doi:10.1038/ncomms15563. [*] Equal contribution.
6. Isaac E. García, Jaime Maripillán, Oscar Jara, Ricardo Ceriani, **Angelina Palacios-Muñoz**, Jayalakshmi Ramachandran, Pablo Olivero, Tomás Perez-Acle, Carlos González, Juan Carlos Sáez, Jorge Contreras and Agustín Martínez. (2015). Keratitis-Ichthyosis-Deafness syndrome-associated Cx26 mutants produce nonfunctional gap junctions but hyperactive hemichannels when co-expressed with wild type Cx43. **J Invest Dermatol**. 2015 May;135(5):1338-47. doi: 10.1038/jid.2015.20. Epub 2015 Jan 27.
7. **Angelina Palacios-Munoz**, Maria J. Escobar, Alex Vielma, Joaquín Araya, Aland Astudillo, Gonzalo Valdivia, Isaac E. García, José Hurtado, Oliver Schmachtenberg, Agustín D. Martínez and Adrián G. Palacios. (2014). Role of Connexin Channels in Retinal Light Response in a Diurnal Rodent. **Front Cell Neurosci**. 2014 Aug 25;8:249. doi: 10.3389/fncel.2014.00249. eCollection 2014.

Book Chapters

- **Angelina Palacios-Muñoz**. Chapter 8: Biogás. “La Alegría de la Ciencia”. K.E. Whitlock & Ciencia al Tiro. **Edited by:** Whitlock Kathleen, Ewer John, Benjumbeda Isabel, **Palacios Angelina**, Rojas Alberto. Andros impresores, registro #247.771. ISBN 978-956-358-304-5. Valparaíso, Chile, 2015.

Awards and Fellowships

- Shortlisted for the 2021 Journal of Experimental Biology Outstanding Paper Prize with “The impact of the gut microbiome on memory and sleep in *Drosophila*” (doi: 10.1242/jeb.233619). <https://journals.biologists.com/jeb/article/225/2/jeb243996/274150/Announcing-the-2021-Journal-of-Experimental?searchresult=1>
- **Third place award** for the best annual summary oral presentation **INSAR** (International Society Autism Research) Regional Meeting Puerto Varas, Chile 2019.
- Selected by the Latin American Society Chronobiology (LASC) to represent Chile in the Young Scientist Opening Session “Today in Latin American Chronobiology” Call for Young Speakers, XV Latin American Symposium on Chronobiology, Uruguay 2019.
- Annual Award for Innovation in Scientific Education 2015, category Non-formal Scientific Education. Young Science Foundation with the sponsorship of the Santiago Office of the United Nations Educational, Scientific and Cultural Organization (UNESCO). November 2015.
- Competitive Trainee Travel Award to attend to SRBR 2014, Big Sky Montana, USA (Society for Research on Biological Rhythms) (2014).
- Competitive Travel funding to visit Big Sky, Montana, USA. (Office of Naval Research (ONR) Global, Science & Technology, US Navy) (2014).
- Competitive doctoral Fellowship "Apoyo Tesis Doctoral" CONICYT (Chilean Governmental Agency for Science and Technology) (2011-2012).
- Competitive Fellowship to attend to “53rd Annual *Drosophila* Research Conference”, Chicago, IL, USA. MECESUP (Fellowship of the University of Valparaíso) (March 7-12, 2012).
- Competitive Fellowship for Doctoral Studies in Chile CONICYT (2010-2013).
- Competitive Fellowship for Doctoral Studies in Chile MECESUP (2009-2010).

Attendance to Scientific Meetings

- **Angelina Palacios-Muñoz**, Valeria Silva, Isaac E García, and John Ewer. (2023). Mutations in *trpγ*, the homologue of *TRPC6* autism candidate gene, causes autism-like behavioral deficits in *Drosophila*. Primer Encuentro Annual de Investigación Facultad de Farmacia, Universidad de Valparaíso, January 2023, Valparaíso, Chile.
- **Angelina Palacios-Muñoz**, Valeria Silva, Isaac E García, and John Ewer. (2022). Mutations in *TRPC6* are associated with autism in humans and cause autism-like behavioral deficits in *Drosophila*. 19th European *Drosophila* Neurobiology Conference NEUROFLY 2022, 6-10 September 2022, Saint-Malo, France.
- Valeria Silva, **Angelina Palacios-Muñoz**, Zeynep Okray, Karen L. Adair, Scott Waddell, Angela E. Douglas and John Ewer. Does the microbiome affect fruit fly behavior?. 29th Meeting of Hellenic Society for Neuroscience (Virtual), Greece, 2021.
- Granada MF, Gallardo C, Díaz J and **Angelina Palacios-Muñoz**. Patrones de comportamiento circadiano presentes em la microbiota salival humana. Congreso Nacional de Estudiantes de Odontología CONADEO (Virtual), Chile, 2021.

- **Angelina Palacios-Muñoz**, Valeria Silva, Danielle Moreira, Francisco Aboitiz, Maria Rita Passos-Bueno and John Ewer. *Drosophila* mutants of autism candidate gene TRPC6 exhibit impaired sleep homeostasis, disruptions in social behavior, and altered cognitive functions. XV Latin American Symposium on Chronobiology 2019 Colonia del Sacramento, Uruguay.
- **Angelina Palacios-Muñoz**, Isaac García, Francisco Aboitiz, Valeria Silva, Danielle Moreira, Maria Rita Passos-Bueno and John Ewer. *Drosophila* mutants of autism candidate gene TRPC6 exhibit impaired sleep homeostasis, disruptions in social behavior, and altered cognitive functions. International meeting of autism research (INSAR) 2019, Puerto Varas, Chile.
- **Angelina Palacios-Muñoz**, Danielle Moreira, Maria Rita Passos-Bueno and John Ewer. Alterations in social behavior and sleep homeostasis in a *Drosophila* model of autism spectrum disorder. 17th European *Drosophila* Neurobiology Conference NEUROFLY 2018, 3-7 September 2018, Krakow, Poland.
- **Angelina Palacios-Muñoz**, Danielle Moreira, Nicolli Damazio, Maria Rita Passos-Bueno and John Ewer. Alterations in circadian and neural functions in a *Drosophila* model of autism spectrum disorder. European Biological Rhythms Society XV Congress, July 30-August 3, 2017, Amsterdam, Holland.
- **Angelina Palacios-Muñoz**, Danielle Moreira, Nicolli Damazio, Maria Rita Passos-Bueno and John Ewer. Alterations in circadian and neural functions in a *Drosophila* model of autism spectrum disorder. XIV Latin American Symposium on Chronobiology 2017, 14-18 November 2017, Valparaíso, Chile.
- **Angelina Palacios-Muñoz**, Mareike Selcho, Carola Millán, Lilian Ubillo, Jiangtian Chen, Franziska Ruf, Chihiro Ito, Christian Wegener, and John Ewer. The PTTH neuropeptide couples central and peripheral clocks in *Drosophila*. Society for Research on Biological Rhythms, May 21-25 2016, Palm Harbor, FL, USA.
- **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.
- **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.
- **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.
- **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.
- **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.

- 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.
- **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.
- **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.
- **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.
- 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.
- **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.
- 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.
- Carola Millán, **Angelina Palacios-Muñoz** and John Ewer. *Halloween genes and PTHH signaling-Role in circadian regulation of adult emergence*. Neurobiology of Drosophila. Cold Spring Harbor, New York, USA, 2009.
- 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.
- **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.
- **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 Sociedad Chilena de Neurociencia, Los Andes, Chile, 2007.
- 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, San Diego, USA, 2007.

Courses and Seminars

- Diploma: "University Teacher's Certificate". Universidad de Valparaíso, Diplomado en Docencia Universitaria 2022, January 25, 2023.
- Course: "Ética, Transparencia y Lobby 2022". Centro de estudios de la administración del Estado (CEA), 8 horas cronológicas de formación, y es dictado por CEA perteneciente a la Contraloría General de la República, May 12.
- Course: "Inducción a la Docencia en Universidades del Estado de Chile". Consorcio de Universidades del Estado de Chile, 12 horas cronológicas de formación, y es dictado en el contexto del Convenio Marco Objetivo en Red. Santiago, September 08, 2020.
- Course: "Classic papers in Genetics". Facultad de Ciencias, Universidad de Valparaíso, April 01th to July 15th, 2020.
- Course: "Impacto del reloj biológico sobre la vida humana". Facultad de Ciencias, Universidad de Valparaíso, March 30th to June 15th, 2019.
- III Versión "Creando una cultura del autismo en Chile: Derecho, inclusión y participación". Hospital Naval, Viña del Mar, September 11-12th, 2017.
- II Versión "Creando una cultura del autismo en Chile". Escuela de Medicina, Universidad de Valparaíso, August 4-5th, 2016.
- Simposio "Neuroscience meets Valparaíso" November 28-29th, 2012. Parque Cultural Ex-Cárcel, Valparaíso.
- Simposio "40 Years of Ions Channels" A marriage of convenience, Octubre 25-27th, 2011; Centro Interdisciplinario de Neurociencias de Valparaíso.
- Course: "Desarrollo, Genética y Evolución", dictated by Dr. John Ewer, Centro Interdisciplinario de Neurociencias de Valparaíso, August 3th to December 15th, 2010.
- International Course: Small Brain, Big Ideas; Biomedical Insights from Invertebrate Neuroscience Research. Universidad de Chile, Santiago de Chile, October 25-30th, 2010.
- International Course: Advanced Insect Development Genetics and Genomics. Universidad de Chile, Santiago de Chile, December 2-12th, 2009.

Outreach Activities and Appearances in the media

- Interview in Valentin Letelier radio (March 2023). Program "Café Negro". Talk about the role of women in science. <https://www.mixcloud.com/RadioValentinLetelier/entrevista-arlek-gonzález-angelina-palacios-20230308/>
- Active member of "Ciencia Altiro science outreach program" (2009-2022). University of Valparaíso, Chile. Director: Dr. Kathleen Whitlock.
- Talk on "Estudio del trastorno del espectro autista utilizando como modelo la mosca *Drosophila melanogaster*". December 3th, 2022. Jornada Científica SOCEOUV (Sociedad Científica de Estudiantes de Odontología de la Universidad de Valparaíso). <https://www.instagram.com/p/CIUrS6LJwku/?hl=es>.

- Interview in Revista de la Facultad de Odontología (November 2022). Oficina de Extensión, Facultad de Odontología de la Universidad de Valparaíso. https://issuu.com/revistadeodontologiauv/docs/revista_facultad_de_odontolog_a_uv_n_7.
- Participation with “Ciencia Al Tiro” (outreach program) in the edition of the book “Pacha Mama-Madre Tierra” of the american artist Betty LaDuke (<https://bettyladuke.com>). Our version highlight the natural beauty of Chile and indigenous cultures through the Mapuche people and their deep respect for Mother Earth “Ñuke Mapu” <https://cienciaal tiro.cl/wp-content/uploads/2022/11/Chile-Pacha-Mama-Colorear.pdf>
- Video 2022: Project for disseminating research in basic sciences of the Faculty of Dentistry of the University of Valparaíso. Audiovisual Producer: Rodrigo Fuentes Cortés, r.fuentes cortes@gmail.com. <https://youtu.be/kGHVkJQ0VuE>
- Interview in Valentin Letelier radio (2022). Program “Ciudad Mosaico”. <https://www.mixcloud.com/RadioValentinLetelier/ciudad-mosaico-20220608/>.
- Interview in USACH radio. (2022). Program “All you need is lab”. <https://youtu.be/A-lmoVZ0IEI>.
- Interview in SAVALnet. (2022) <https://www.savalnet.cl/mundo-medico/noticias/mayor-comprension-en-enfermedades-del-neurodesarrollo.html>
- Talk on “Estudio del trastorno del espectro autista utilizando como modelo la mosca *Drosophila melanogaster*”. November 30th, 2021. Celebration of the 120th anniversary of the Liceo Bicentenario Marta Brunet C, Chillán, Programa de Integración Escolar.
- Talk on “Study of the autism spectrum disorder using the fly *Drosophila melanogaster* as model organismo”. September 4th, 2021. Jornada de Neurociencias organizada por la Sociedad estudiantil de investigación científica y la academia estudiantil de neurociências y neurotecnología, Pontificia Universidad Católica de Chile.
- Scientific consultant and collaborator of “Mosca Científica”: Experimenta, investiga y vuela! (2021). Project for the dissemination of biological sciences that -focused on people between 15 and 35 years old- seeks to account for the importance of model organisms in the science and specifically the study of *Drosophila melanogaster* better known as the fruit or vinegar fly.
- Videos Pandemia 2020, Coronavirus (COVID-19). Grupo Ciencia Al Tiro, Universidad de Valparaíso. <https://cienciaal tiro.cl/proyectos/pandemia-2020/>
- Interview in Duna radio (2019). <https://www.youtube.com/watch?v=O7-L57rNbJ0>
- “Experimenta ciencia de nin@s” (2019). TV program to children that show the work of a scientist (**Angelina Palacios-Muñoz**) for a day in the Centro Interdisciplinario de Neurociencias de Valparaíso. Consejo Nacional de Televisión Infantil with 78 channels from Porvenir to Putre and to 7.800 public schools of Chile. <https://infantil.cntv.cl/videos/neurociencia-que-no-te-de-sueno>.
- Discussion panel member in “Conversas en Ciencias”, Universidad de O’Higgins (UOH), December 3, 2018. <https://www.youtube.com/watch?v=ljyod73WSRY&feature=youtu.be&t=901>
- Talk on “*Drosophila melanogaster* as model organism to biological research” to students of the Colegio Luterano, Viña del Mar, Octubre 2018.
- Interview in Pauta. <http://www.pauta.cl/ciencia-y-tecnologia/cientificas-extremas-iv-dia-y-noche-pasado-y-futuro>

- Interview in the newspaper “Hoy por Hoy”. <http://www.hoyxhoy.cl/2018/11/05/full/cuerpo-principal/4/>
- Interview in the digital newspaper “El mostrador”. <https://m.elmostrador.cl/cultura/2018/10/30/con-mosca-del-vinagre-estudian-trastornos-de-sueno-observados-en-pacientes-con-autismo/>
- Interview in the newspaper “La Cuarta”. <https://www.lacuarta.com/vivir/noticia/moscas-trastornos-sueno-autismo/305101/>
- Interview in the newspaper “La Cuarta”. <https://www.lacuarta.com/cronica/noticia/al-fin-cientificas-aclaran-somos-fomes-chile/313062/>
- “Exploradores: del átomo al cosmos”, TV program of Televisión Nacional de Chile. Interview about circadian clock and how clock changes affect the human healthy . <https://www.youtube.com/watch?v=6pb4hPQTA0s>
- “Cambio global”, TV program about “Ciencia Al tiro” science outreach program. To be transmitted by Televisión Nacional de Chile, August 2015. <https://www.youtube.com/watch?v=ZNrbqeLf1SU>