

FLORENCIA FERNÁNDEZ-CHIAPPE

Biomedicine Research Institute of Buenos Aires– CONICET – Partner Institute of the Max Planck Society (IBioBA-MPSP)
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CURRENT POSITION

Biomedicine Research Institute of Buenos Aires
Buenos Aires, Argentina
PhD Student 2017-present

EDUCATION

University of Buenos Aires, Faculty of Natural and Exact Sciences
Buenos Aires, Argentina
PhD in Biological Sciences 2017-present

University of Buenos Aires, Faculty of Natural and Exact Sciences
Buenos Aires, Argentina
Licentiate in Biological Sciences 2010-2017
Undergraduate thesis: *Study of the role of GABA neurotransmitter in the sleep behavior of Drosophila melanogaster*.
Thesis marked 10 (out of 10).
Advisor: Dr. Nara I. Muraro. Biomedicine Research Institute of Buenos Aires, Buenos Aires, Argentina.

SCHOLARSHIPS

Full scholarship to participate of the “1 Latin American School on Chronobiology and Sleep” course
International Brain Research Organization. 2019

Full scholarship to participate of the “*Drosophila* Neurobiology: Genes, Circuits & Behavior” course
International Brain Research Organization. 2019

PhD Scholarship 2017-2022
National Scientific and Technical Research Council (CONICET), Argentina

Undergraduate Research Scholarship 2015-2017
Consejo Interuniversitario Nacional (CIN), Argentina

Scholarship to participate of the “Janelia Undergraduate Scholars Program”
Howard Hughes Medical Institute, United States. 2015

RESEARCH EXPERIENCE

Biomedicine Research Institute of Buenos Aires. Neurobiology of Sleep Laboratory. 2017-present
Buenos Aires, Argentina
PhD student. Advisor: Dr. Nara I. Muraro.
GABAergic circuits involved in the sleep/wake behavior.

Biomedicine Research Institute of Buenos Aires. Neurobiology of Sleep Laboratory. 2014-2017
Buenos Aires, Argentina
Undergraduate Research Student. Advisor: Dr. Nara I. Muraro.
Study of the role of GABA neurotransmitter in the sleep behavior of Drosophila melanogaster

HHMI Janelia Research Campus. Reiser Lab. June -August 2015
Ashburn, VA, United States
Undergraduate Scholar. Advisors: Dr. Michael B. Reiser, Dr. Eyal Gruntman, Dr. Kit Longden.
Probing the perceptual limits of vision using virtual chasing behavior in Drosophila melanogaster

PUBLICATIONS

- Peer-reviewed Journal Articles

Florencia Fernandez-Chiappe, Lia Frenkel, Carina Celeste Colque, Ana Ricciuti, Bryan Hahm, Karina Cerredo, Nara Inés Muraro and María Fernanda Ceriani. High-Frequency Neuronal Bursting is Essential for Circadian and Sleep Behaviors in *Drosophila*. *J Neurosci*. 2021 Jan 27;41(4):689-710.

Florencia Fernandez-Chiappe, Christiane Hermann-Luibl, Alina Peteranderl, Nils Reinhard, Pingkalai R Senthilan, Marie Hieke, Mareike Selcho, Taishi Yoshii, Orié T Shafer, Nara I Muraro, Charlotte Helfrich-Förster. Dopamine Signaling in Wake-Promoting Clock Neurons Is Not Required for the Normal Regulation of Sleep in *Drosophila*. *J Neurosci*. 2020 Dec 9; 40(50): 9617-9633.

- Other publications

Devang Mehta, Yaw Bediako, Charlotte M de Winde, Hedyeh Ebrahimi, **Florencia Fernández-Chiappe**, Vinodh Ilangovan Is a corresponding author, Carolina Paz Quezada, Julia L Riley, Shyam M Saladi, Andy Tay, Tracey Weissgerber. Ways to increase equity, diversity and inclusion. *Elife*. 2020 Jul 7;9:e60438. Editorial article.

Tracey Weissgerber, Yaw Bediako, Charlotte M de Wind, Heedyeh Ebrahimi, **Florencia Fernández-Chiappe**, Vinodh Ilangovan, Devang Mehta, Carolina Paz Quezada, Julia L Riley, Shyam M Saladi, Sarvenaz Sarabipour, Andy Tay. Mitigating the impact of conference and travel cancellations on researchers' futures. *Elife*. 2020 Mar 27;9:e57032. Feature article.

PRESENTATIONS IN SCIENTIFIC MEETINGS

Fernández-Chiappe F, Muraro NI. Exploring the roles of GABA in the sleep circuit of *Drosophila*. Poster presentation delivered at the XXXV Congress of the Argentine Society for Research in Neuroscience. Virtual conference. October 2020.

Muraro NI, Colque CC, Frenkel L, **Fernández-Chiappe F**, Ricciuti A, Ceriani MF. The Ih channel shapes circadian rhythms and sleep through the control of neuronal bursting frequency. "Sleep in *Drosophila*" meeting, Janelia Research Campus, Ashburn, VA, United States of America. November 2019.

Fernández-Chiappe F, Muraro NI. Unraveling the roles of GABAergic inputs to *Drosophila* sleep neurons. Poster presentation delivered at the XV Latin American Symposium on Chronobiology, Colonia del Sacramento, Uruguay. October 2019.

Fernández-Chiappe F, Muraro NI. A GABA_A receptor in circadian and arousal neurons regulates sleep in *Drosophila melanogaster*. Oral and poster presentation delivered at the XXXIII Congress of the Argentine Society for Research in Neuroscience, Córdoba, Argentina. October 2018.

Fernández-Chiappe F, Muraro NI. Unraveling the roles of GABAergic afferencies to sleep neurons in *Drosophila*. Poster presentation delivered at Frontiers in Bioscience 3, Buenos Aires, Argentina. September 2018.

Fernández-Chiappe F, Muraro NI. Downregulation of a GABA receptor affects sleep behavior in unanticipated ways in *Drosophila*. Poster presentation delivered at the XIV Latin American Symposium on Chronobiology 2017 (LASC 2017), Valparaíso, Chile. November 2017.

Fernández-Chiappe F, Muraro NI. The surprising effects of acute downregulation of a GABA receptor in *Drosophila* sleep behavior. Oral and poster presentation delivered at the XXXII Congress of the Argentine Society for Research in Neuroscience, Mar del Plata, Argentina, September 2017.

Fernández F, Muraro NI. Synaptic plasticity following sleep deprivation in the fruit fly *Drosophila melanogaster*. Poster presentation delivered at the "Frontiers in Bioscience 2" Symposium, Buenos Aires, Argentina. November 2016.

Fernández F, Muraro NI. Synaptic plasticity following sleep deprivation in the fruit fly *Drosophila melanogaster*. Poster presentation delivered at the 2nd Federation of Latin American and Caribbean Neuroscience Societies (FALAN) Congress, Buenos Aires, Argentina. October 2016.

Muraro NI, Colque C, Frenkel L, **Fernández F**, Hahm B, Ceriani MF. Ion channels that regulate neuronal physiology and circadian behavior in *Drosophila melanogaster*. 15th Biennial Meeting, Society for Research on Biological Rhythms, Palm Harbor, Florida, United States of America. May 2016.

Fernández F, Muraro NI. Sleep and Synaptic plasticity in the fruit fly *Drosophila melanogaster*. Poster presentation delivered at the XXX Congress of the Argentine Society for Research in Neuroscience, Mar del Plata, Argentina. October 2015.

Fernández F, Gruntman E, Longden K, Reiser MB. Probing the perceptual limits of vision using virtual chasing behavior in *Drosophila melanogaster*. Oral and poster presentation delivered at the 2015 Janelia Undergraduate Scholars Program Closing Symposium, Janelia Research Campus, Ashburn, VA, United States of America. August 2015.

COURSEWORK

Philosophy of Biology. Faculty of Natural and Exact Sciences, University of Buenos Aires. Buenos Aires, Argentina. July, 2020.

Insect Physiology and Behavior. Faculty of Natural and Exact Sciences, University of Buenos Aires. Buenos Aires, Argentina. August- November, 2019.

I Latin American School on Chronobiology and Sleep. Facultad de Ciencias and Facultad de Medicina, Universidad de la República, Montevideo, Uruguay. October 2019.

Drosophila Neurobiology: Genes, Circuits & Behavior. Cold Spring Harbor Laboratory, Laurel Hollow, NY, United States. June - July, 2019.

One-day course on Sleep and Rhythms. XIV Latin American Symposium on Chronobiology 2017 (LASC 2017), Valparaíso, Chile. November 2017.

Optic and Fluorescence Microscopy I. Faculty of Natural and Exact Sciences, University of Buenos Aires. Buenos Aires, Argentina. June 2017.

State-of-the-art Methods in Neuroscience. XXX Congress of the Argentine Society for Research in Neuroscience, Mar del Plata, Argentina. October 2015.

Synapses and circuits. Max Planck International Neuroscience Workshop and Max Planck International Neuroscience Symposium. Biomedicine Research Institute of Buenos Aires-CONICET-Partner Institute of the Max Planck Society (IBioBA-MPSP), Buenos Aires, Argentina. September 2015.

COMMITTEE SERVICE

Early Career Advisory Group
eLIFE

August 2019-present

SCIENCE COMMUNICATION

Co-host and screenwriter for "Oh, la humanidad", a science communication podcast. El Gato y la Caja and Posta.fm, April-June 2021. <https://elgatoylajaja.com/podcast/oh-la-humanidad>

Screenwriter for "Coronavirus: breve podcast de la pandemia", a science communication podcast hosted by Dr. Juan Manuel Carballeda. El Gato y la Caja and Posta.fm, March-November 2020. <https://elgatoylajaja.com/podcast/coronavirus>

Researcher for "Fiebre. Breve colección de epidemias", a science communication book on historical epidemics authored by Dr. Juan Manuel Carballeda. El Gato y la Caja, 2021. ISBN 978-987-47270-8-4. <https://elgatoylajaja.com/fiebre>

Organizer and host of the stand "#cerebrodemosca" at the Night of the Museums, Max Planck Institute of Buenos Aires, Buenos Aires, Argentina. November 2019

Organizer and host of the stand "The marvelous world of the fly brain: using *Drosophila melanogaster* as an experimental model in neuroscience" at the Biology Week, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina. August 2017.

Laboratory activity "The Brain of the Fly" ("Cerebro de mosca") associated to the month of the brain events at the Cultural Center for Science (Centro Cultural de la Ciencia, C3), Polo Científico Tecnológico de la Ciudad de Buenos Aires, Argentina. June 2016.

Participation in the stand "¿Qué es lo que ves?", of the Perception Laboratory at the Biology Week, Faculty of Natural and Exact Sciences, University of Buenos Aires, Argentina. August 2014.