

## CURRICULUM VITAE

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### EDUCATION / TRAINING

<u>Year</u>	<u>Degree</u>	<u>Institution</u>
1984	B.A./B.S.	University of Chile, Santiago, Chile
1984	M.S.	University of Chile, Santiago, Chile
1990	Ph.D.	Brandeis University, Waltham, MA

### PROFESSIONAL EXPERIENCE:

1991-96	Postdoctoral fellow, Zoology Department, University of Washington, Seattle, Washington, USA. Jim Truman, Ph.D., Principal Investigator.
1996	Postdoctoral fellow, Neuroscience Institute, University of Oregon, Eugene, Oregon, USA. Janis Weeks, Ph.D., Principal Investigator.
1996-98	Postdoctoral fellow, Biology Department, York University, North York, Ontario, Canada. Marla Sokolowski, Ph.D. Principal Investigator.
1998-2004	Department of Entomology. Cornell University, Ithaca, NY, USA. Assistant Professor.
2004- 2009	Department of Entomology. Cornell University, Ithaca, NY, USA. Associate Professor.
2006-present	Centro de Interdisciplinario de Neurociencia de Valparaíso, Universidad de Valparaiso, Valparaiso, Chile; Professor
2012-2014	NIH/NINDS; Special volunteer, Lab Dr. Miguel Holmgren,

### PUBLICATIONS:

#### Refereed journal articles

- Diao, F., Mena, W., Shi, J., Park, D., Diao, F., Taghert, P., Ewer, J., and White, B.H. The splice Isoforms of the *Drosophila* Ecdysis Triggering Hormone receptor have developmentally distinct roles. *Genetics*, *In press*.
- Krüger, E., Mena, W., Lahr, E.C., Johnson, E.C., and Ewer, J. (2015). Genetic analysis of Ecdysis Hormone action during *Drosophila* larval ecdysis. *Development*, *In press*.
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- Ardiles A, Ewer J, Acosta ML, Kirkwood A, Martinez A, Ebensperger LA, Bozinovic F, Lee TM, Palacios AG. (2013). *Octodon degus* (Molina 1782): A model in comparative biology and biomedicine. Cold Spring Harbor Protocols. pp. 312-18; doi:10.1101/pdb.emo071357
- Sundram V., Fanny S. Ng, F.S., Roberts, M.A. Millán, C, Ewer, J. and Jackson, F.R. Jackson. (2012). Requirements for LARK in the *Drosophila* Circadian System. J. Biological Rhythms, **27**(3):183-95.
- Lahr, E.C., Dean, D., and Ewer, J. (2012). Genetic analysis of ecdysis behavior in *Drosophila* reveals partially overlapping functions of two unrelated neuropeptides. J. Neurosci. **32**(20): 6819 – 6829
- Grbic, M., Van Leeuwen, Clark, R.M., Rombauts, S., Rouzé, P., *et al.* (2011). The genome of *Tetranychus urticae* reveals herbivorous pest adaptations. Nature **479**: 487-492
- Paré, A. C., D. M. Dean and J. Ewer (2009). "Construction and characterization of Deletions with defined endpoints in *Drosophila* using P-elements *in trans*." Genetics. **181**(1):53-63.
- Lin, D. M., B. Loveall, J. Ewer, D. L. Deitcher and N. J. Sucher (2007). "Characterization of mRNA expression in single neurons." Methods Mol Biol. **399**: 133-52.
- Zilberstein, Y, Ewer, J, and Ayali, A. (2006) Molt-related neuromodulation of the locust frontal ganglion - A novel target for insect ecdysis peptides. J. Exp. Biol. **209**: 2911-9.
- Hardstone, M.C., Baker, S.A., Gao J., Ewer, J., Scott, J.G. (2006) Deletion of *Cyp6d4* does not alter toxicity of insecticides to *Drosophila melanogaster* Pestic. Biochem. Physiol. **84**:236-242.
- Dulcis D, Levine R, Ewer J. 2005. Role of the neuropeptide CCAP in *Drosophila* cardiac function. J. Neurobiol. **64**:259-274.
- Luo C-W, Dewey EM, Sudo S, Ewer J, Hsu SY, Honegger H-W, Hsueh AJW. (2005). Bursicon, the insect cuticle hardening hormone, is a heterodimeric cystine knot protein that activates G protein-coupled receptor LGR2. Proc. Natl. Acad. Sci. USA **102**:2820-2825.
- Dewey, E.M\*, S.L. McNabb\*, J. Ewer, G.R. Kuo, C.L. Takanishi, J.W. Truman and H.-W. Honegger. (2004). Identification of the gene encoding bursicon, an insect neuropeptide responsible for cuticle sclerotization and wing spreading. Curr. Biol. **14**:1208-1213. (\*) Co-first authors. Commentary: Chong, L.D. (2004). Acquiring a tan. Science **305**:575..
- Clark AC\*, M.L. Del Campo\*, and J. Ewer. (2004). Neuroendocrine control of larval ecdysis behavior in *Drosophila*: complex regulation by partially redundant neuropeptides. J. Neuroscience **24**:4283-4292. (\*) Co-first authors. Commentary: Casci, T. (2004). Shedding degeneracies. Nat. Rev. Genet. **5**:488.
- Husain Q.M. and J. Ewer. (2004). Use of targetable gfp-tagged neuropeptide for visualizing neuropeptide release following execution of a behavior in *Drosophila*. J. Neurobiol. **59**:181-191.
- Park, J., A. J. Schroeder, C. Helfrich-Förster, F. R. Jackson and J. Ewer (2003). Targeted ablation of CCAP neuropeptide-containing neurons of *Drosophila* causes specific defects in execution and circadian timing of behavior. Development **130**: 2645-2656.

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## Reviews

Genetic variants associated with neurodegenerative Alzheimer disease in natural models. Salazar, C., Valdivia, G., Ardiles, A.O., Ewer, J., Palacios, A.G. *Submitted*.

- Aspé, M., Rivera, M.I., Moreno, M., Rossi, A. and Ewer, J. Oxytocin and vasopressin receptor gene polymorphisms: role in social and psychiatric traits. *Front. Neurosci. - Systems Biology. In revision.*
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