

CURRICULUM VITAE

Kai Zinn
Professor of Biology
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Education:

B.A. in Chemistry with specialization in Biochemistry, *summa cum laude*, from Revelle College, University of California, San Diego (1977).

Ph.D. in Biochemistry and Molecular Biology, from Harvard University (1984). Thesis advisor: Tom Maniatis

Research and Professional Experience:

Postdoctoral Fellow, Harvard University, 1984-1985, with Tom Maniatis

Postdoctoral Fellow, Stanford University and University of California, Berkeley, 1985-1989, with Corey S. Goodman

Assistant Professor, California Institute of Technology, 1989-1995.
Associate Professor, California Institute of Technology, 1995-1999
Professor, California Institute of Technology, 1999-present

Honors and Awards:

National Science Foundation Predoctoral Fellowship 1978-1981
Helen Hay Whitney Foundation Postdoctoral Fellowship 1985-1988
Alfred P. Sloan Research Fellowship in Neuroscience, 1990-1992
McKnight Scholars Award, 1990-1993
Pew Scholars Award, 1990-1994
March of Dimes Foundation Basil O'Connor Starter Scholars Award, 1990-1992
McKnight Investigator Award, 1994-1997
McKnight Brain Disorders Award, 2005-2007

Review activities:

Member of the Editorial Advisory Board for *Development*
Editorial board member for *Molecular and Cellular Neuroscience*
Editorial board member for *Neural Development*
Past member of NIH NDPR study section.
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Publications:

- Carrillo, R.A., Özkan, E., Menon, K.P., Nagarkar-Jaiswal, S., Lee, P.T., Jeon, M., Birnbaum, M.E., Bellen, H.J., Garcia, K.C., and Zinn, K. (2015) Control of synaptic connectivity by an interacting network of *Drosophila* IgSF cell surface proteins. Manuscript submitted for publication.
- Menon, K.P., Carrillo, R.A., and Zinn, K. (2015) The translational regulator Cup and eIF4E control presynaptic terminal morphology. Manuscript submitted for publication.
- Al-Anzi, B., Arpp, P., Gerges, S., Ormerod, C., Olsman, N., and Zinn, K. (2015) Experimental and computational analysis of a large protein network that controls fat storage reveals the design principles of a signaling network. *PLoS Computational Biology*, in press.
- Jeon, M., and Zinn, K. (2015) R3 receptor tyrosine phosphatases: conserved regulators of receptor tyrosine kinase signaling and tubular organ development. *Seminars in Cell and Developmental Biology* 37, 119-126 (Review).
- Bower, D.V., Jesudason, E. C., Lee, H-K., Lansford, R., Zinn, K., and Fraser, S.E. (2014) Airway branching has conserved needs for local innervation but not neurotransmission. *BMC Biology* 12, article #92.
- Ozkan, E., Carrillo, R.A., Eastman, C.L., Weiszmann, R., Waghray, D., Johnson, K.G., Zinn, K., Celniker, S.E., and Garcia, K.C. (2013) An extracellular interactome of cell surface Immunoglobulin and Leucine-rich repeat proteins reveals novel receptor-ligand networks. *Cell* 154, 228-239.
- Lee, H-K., Cording, A., Vielmetter, J., and Zinn, K. (2013) Interactions between a receptor tyrosine phosphatase and a cell surface ligand regulate axon guidance and glial-neuronal communication. *Neuron* 78, 813-826.
- Carrillo, R.A., Menon, K., and Zinn, K. (2013) Is instability good for the brain? *Neuron*, 77, 599-600 (Review).
- Menon, K.P., Carrillo, R.A., and Zinn, K. (2013) Development and plasticity of the *Drosophila* larval neuromuscular junction. *WIREs Developmental Biology* 2. 647-670, doi: 10.1002/wdev.108 (Review).
- Kurusu, M., Katsuki, T., Zinn, K., and Suzuki, E. (2012) Developmental changes in expression, subcellular distribution, and function of *Drosophila* N-cadherin are guided by cell-intrinsic programs during neuronal differentiation. *Developmental Biology* 366, 204-217.
- Jeon, M., Scott, M.P., and Zinn, K. (2012) Interactions between Type III receptor tyrosine phosphatases and growth factor receptor tyrosine kinases regulate tracheal tube formation in *Drosophila*. *Biology Open* 1, 548-558.

Al-Anzi, B., and Zinn, K. (2011) Genetics of fat storage in flies and worms: What went wrong? (Review) *Frontiers in Genetics* 2, 87.

Sztul, T., Burgess, J., Jeon, M., Zinn, K., Marques, G., Brill, J., and Sztul, E. (2011) The Garz Sec7 domain guanine nucleotide exchange factor for ARF regulates salivary gland development in *Drosophila*. *Cellular Logistics* 1, 69-76.

Wright, A.P., Fox, A.N., Johnson, K.G., and Zinn, K. (2010) Systematic screening of *Drosophila* deficiency mutations for embryonic phenotypes and orphan receptor ligands. *PLoS ONE* 5(8):e12288.

Al-Anzi, B., Armand, E., Nagamei, P., Olszewski, M., Sapin, V., Waters, C., Zinn, K., Wyman, R.J., and Benzer, S. (2010) The leucokinin pathway and its neurons regulate meal size in fruit flies. *Current Biology* 20, 969-978.

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Lee, H-K., Wright, A.P., and Zinn, K. (2009) Live dissection of *Drosophila* embryos: streamlined methods for screening mutant collections by antibody staining. *Journal of Visualized Experiments* 29(34), pii: 1647. doi: 10.3791/1647.

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Al-Anzi, B., Sapin, V., Waters, C., Zinn, K., Wyman, R.J., and Benzer, S. (2009) Obesity-blocking neurons in *Drosophila*. *Neuron* 63, 329-341.

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