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Key Words

Chemosensation, Gustation, Behavior, Feeding, Drosophila melanogaster

Research Area

All animals are born with a set of instincts, or innate behaviors, and our main questions are how complex behaviors are organized in the nervous system and how they are programmed during development. For this, the chemosensory system would be one of the most excellent models. Smell and taste are known to be important for sensing predators, selecting mates as well as finding food. We would like to trace the neuronal pathways that mediate a complex instinctive behavior such as feeding, from sensory input through to motor output. We are using the fruit fly as a model system to study chemosensation

Education

- 2000 - 2003 PhD Department of Biology, Yonsei University
- 1998 - 2000 MSc Department of Biology, Yonsei University
- 1991 - 1998 BSc Department of Biology, Yonsei University

Experience

- 2012 - Present Associate Professor, Dept. of Biological Sciences, Sungkyunkwan University
- 2008 - 2012 Assistant Professor, Dept. of Biological Sciences, Sungkyunkwan University
- 2003 - 2008 Postdoc, MCDB, Yale University

Position

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Selected Publication

- "Behavioral Analysis of Bitter Taste Perception in *Drosophila* Larvae", Chem Senses, 2016, 41, 85-94.
- "A subset of enteroendocrine cells is activated by amino acids in the *Drosophila* midgut", FEBS Lett. 2016.
- "Isoform-specific expression of the neuropeptide orcokinin in *Drosophila melanogaster*", Peptides, 2015, 68, 50-57.
- "The molecular and cellular basis of taste coding in the legs of *Drosophila*", J Neurosci. 2014, 34, 7148-7164.
- "A map of taste neuron projections in the *Drosophila* CNS", J Biosci. 2014, 39, 565-574.
- "Heterogeneous expression of *Drosophila* gustatory receptors in enteroendocrine cells", PLoS One, 2011, e29022.
- "Molecular and cellular organization of the taste system in the *Drosophila* larva", J Neurosci. 2011, 31, 15300-15309.
- "The molecular and cellular basis of bitter taste in *Drosophila*", Neuron, 2011, 69, 258-272.

Others