

CURRICULUM VITAE

Name Charles S. Zuker
Place of Birth Arica, Chile

Education & Academic Appointments

1989-Present Investigator; Howard Hughes Medical Institute
2009-Present Professor of Biochemistry and Molecular Biophysics and of Neuroscience
Columbia College of Physicians and Surgeons, Columbia University
2009-2017 Senior Fellow, Janelia Research Campus, Howard Hughes Medical Institute
1987-2009 Distinguished Professor; Division of Biological Sciences and
Department of Neurosciences, School of Medicine, UCSD
Tamara and Kevin Kinsella Chair in Neurobiology
1983-1986 Postdoctoral Fellow; Gerry Rubin, Department of Biochemistry; UC Berkeley
1977-1983 Graduate Student; Harvey Lodish, Department of Biology; MIT
1973-1977 Undergraduate Student, Universidad Catolica de Valparaiso, Chile

Honors

2014 Elected Fellow, American Association for the Advancement of Science
2006 Elected member, National Academy of Medicine
2004 Elected Member, National Academy of Sciences
2001 Elected Member, American Academy of Arts and Sciences

Publications (1991-Date)

Research Articles

- Li M, Tan H-E, Lu Z, Tsang K, Chung A, Zuker CS. (2022). Gut-Brain Circuits for Fat Preference. **Nature** **610**, 722-730.
- Jin, H., Fishman, Z.H., Ye, M., Wang, L., Zuker, C.S. (2020). Top-Down Control of Sweet and Bitter Taste in the Mammalian Brain. **Cell** **184**, 257-271.
- Tan, H., Sisti, A., Jin, H., Vignovich, M., Villavicencio, M., Tsang, K., Goffer, Y., Zuker, C.S. (2020). The Gut-Brain Axis Mediates Sugar Preference. **Nature** **580**, 511-516.
- Zhang, J., Jin, H., Zhang, W., Ding, C., O'Keeffe, S., Ye, M., Zuker, C.S. (2019). Sour Sensing from the Tongue to the Brain. **Cell** **179**, 392-402.
- Wang, L., Gillis-Smith, S., Peng, Y., Zhang, J., Chen, X., Salzman, C.D., Ryba, N.J., Zuker, C.S. (2018). The coding of valence and identity in the mammalian taste system. **Nature** **558**, 127-131.
- Lee, H., Macpherson, L.J., Parada, C.A., Zuker, C.S., Ryba, N.J. (2017). Rewiring the taste system. **Nature** **548**, 330-333.
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- Peng, Y., Gillis-Smith, S., Jin, H., Tränkner, D., Ryba, N.J. and Zuker, C.S. Sweet and bitter taste in the brain of awake behaving animals. **Nature** **527**, 512-515 (2015).
- Oka, Y., Ye, M. and Zuker, C.S. Thirst-driving and -suppressing signals encoded by distinct neural populations in the mammalian brain. **Nature** **520**, 349-352 (2015).
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- Chen, X., Gabitto, M., Peng, Y., Ryba, N.J. and Zuker, C.S. A gustotopic map of taste qualities in the mammalian brain. **Science** **333**, 1262-1266 (2011).
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- Gallio, M., Ofstad, T.A., Macpherson, L.J., Wang, J.W. and Zuker, C.S. The coding of temperature in the *Drosophila* brain. **Cell** **144**, 614-624 (2011).
- Chandrashekar, J., Kuhn, C., Oka, Y., Yarmolinsky, D.A., Hummler, E., Ryba, N.J. and Zuker, C.S. The cells and peripheral representation of sodium taste in mice. **Nature** **464**, 297-301 (2010).
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- Zhao, G.Q., Zhang, Y., Hoon, M.A., Chandrashekar, J., Erlenbach, I., Ryba, N.J. and Zuker, C.S. The receptors for mammalian sweet and umami taste. **Cell** **115**, 255-266 (2003).
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Reviews

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- Yarmolinsky, D.A., Zuker, C.S. and Ryba, N.J. Common sense about taste: from mammals to insects. **Cell** **139**, 234-244 (2009).
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