

Publications

Recent Publications

Chia, J. S. M. et al.

Bacteria evoke alarm behaviour in zebrafish.

Nat Commun 10, 3831 (2019).

Jesuthasan, S.

The thalamo-habenula projection revisited.

Seminars in Cell & Developmental Biology 78, 116–119 (2018).

Mohamed, G. A. et al.

Optical inhibition of larval zebrafish behaviour with anion channelrhodopsins.

BMC Biology 15, 103 (2017).

Cheng, R.-K., Krishnan, S., Lin, Q., Kibat, C. & Jesuthasan, S.

Characterization of a thalamic nucleus mediating habenula responses to changes in ambient illumination.

BMC Biology 15, 104 (2017).

Lin, Q. & Jesuthasan, S.

Masking of a circadian behavior in larval zebrafish involves the thalamo-habenula pathway.

Sci Rep 7, 4104 (2017).

Lupton, C. et al.

Loss of the Habenula Intrinsic Neuromodulator Kisspeptin1 Affects Learning in Larval Zebrafish.

eNeuro 4, ENEURO.0326–16.2017 (2017).

Kibat, C., Krishnan, S., Ramaswamy, M., Baker, B. J. & Jesuthasan, S.

Imaging voltage in zebrafish as a route to characterizing a vertebrate functional connectome: promises and pitfalls of genetically encoded indicators.

J. of Neurogenetics 30, 80–88 (2016).

Cheng, R.-K., Krishnan, S. & Jesuthasan, S.

Activation and inhibition of tph2 serotonergic neurons operate in tandem to influence larval zebrafish preference for light over darkness.

Sci Rep 6, 20788 (2016).

Krishnan, S. et al.

The right dorsal habenula limits attraction to an odor in zebrafish.

Curr Biol 24, 1167–1175 (2014).

Tan, S. J., Kee, M. Z. L., Mathuru, A. S., Burkholder, W. F. & Jesuthasan, S. J.

A microfluidic device to sort cells based on dynamic response to a stimulus.

PLoS ONE 8, e78261 (2013).

Mathuru, A. S. & Jesuthasan, S.
The medial habenula as a regulator of anxiety in adult zebrafish.
Front Neural Circuits 7, 99 (2013).

Mathuru, A. S. et al.
Chondroitin Fragments Are Odorants that Trigger Fear Behavior in Fish.
Curr Biol 22, 538–544 (2012).

Lee, A. et al.
The habenula prevents helpless behavior in larval zebrafish.
Curr Biol 20, 2211–2216 (2010).

Hendricks, M. & Jesuthasan, S. PHR regulates growth cone pausing at intermediate targets through microtubule disassembly.
J Neurosci 29, 6593–6598 (2009).

Reviews

S. Jesuthasan (2012)
Fear, anxiety and control in the zebrafish.
Dev. Neuro, 72, 395 - 403.

R. Cheng, S. Jesuthasan and T. Penney (2011)
Time for Zebrafish.
Frontiers in Integrative Neuroscience, 5, 40.

S. Jesuthasan and A. Mathuru (2008)
The alarm response in zebrafish: innate fear in a vertebrate genetic model.
J. Neurogenetics, 22, 1-18