Publications

Recent Publications ( #:Co-first, *:Corresponding, H-index: 9)

C Lim & AS Mathuru
Modeling Alzheimer's and Other Age Related Human Diseases in Embryonic Systems.

AS Mathuru
A little rein on addiction (2017).
DOI: https://doi.org/10.1016/j.semcdb.2017.09.030

AS Mathuru
Conspecific injury raises an alarm in medaka (2016).
DOI: http://dx.doi.org/10.1038/srep36615

S Krishnan#, AS Mathuru# et al.
The right dorsal habenula limits attraction to specific odors.
*Current Biology* 2014,
DOI: http://dx.doi.org/10.1016/j.cub.2014.03.073

SJ Tan, M Kee, AS Mathuru et al.
A microfluidic device to sort cells based on dynamic response to a stimulus,
*PLOS One*, 2013,
DOI: http://dx.doi.org/10.1371/journal.pone.0078261

A Schirmer, S Jesuthasan and AS Mathuru* Tactile stimuli reduce fear in fish,
*Front. of Behav. Neurosci.*, 2013,
DOI: http://dx.doi.org/10.3389/fnbeh.2013.00167

AS Mathuru and S Jesuthasan
The medial habenula as a regulator of anxiety in adult zebrafish. Front.
*Neural Circuits* 2013,
DOI: http://dx.doi.org/10.3389/fncir.2013.00099

AS Mathuru et. al.,
Chondroitin Fragments Are Odorants that trigger fear behavior in fish.
*Current Biology*, 2012
DOI: http://dx.doi.org/10.1016/j.cub.2012.01.061
A Lee, AS Mathuru, et. al.,
The habenula prevents helpless behavior in larval zebrafish.
*Current Biology*, 2010
DOI: http://dx.doi.org/10.1016/j.cub.2010.11.025

AS Mathuru and S Jesuthasan,
Alarm Response in Zebrafish: Innate Fear in a Vertebrate Genetic Model.
*Journal of Neurogenetics*, 2008
DOI: http://dx.doi.org/10.1080/01677060802298475

M Hendricks, AS Mathuru et al.
Disruption of Esrom and Ryk identifies the roof plate boundary as an intermediate target for commissure formation.
*Molecular and Cellular Neuroscience*, 2008,
DOI: http://dx.doi.org/10.1016/j.mcn.2007.10.002

AS Mathuru and US Bhalla,
A propagating ERKII switch forms zones of elevated dendritic activation correlated with plasticity.
*HFSP J*, 2006,
DOI: http://dx.doi.org/10.2976/1.2721383

AS Mathuru and US Bhalla,
Synaptic plasticity – in vitro and in silico: Insights into an intracellular signaling maze.
*Physiology*, 2006
DOI: 10.1152/physiol.00009.2006

AS Mathuru and US Bhalla,
A role for ERKII in synaptic pattern selectivity on the time-scale of minutes.
*E. J. Neurosci.*, 2004
DOI: http://dx.doi.org/10.1111/j.1460-9568.2004.03725.x

SJ Vayttaden, Mathuru AS and US Bhalla,
A spectrum of models of signaling pathways.
*Chembiochem*, 2004,
DOI: http://dx.doi.org/10.1002/cbic.200400127