

Prof. Dr. Andreas Stephan Thum

General information

Thum, Andreas Stephan, Prof. Dr. rer. nat., 19.04.1977, male
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Current position: Professor, W3

University training and degree

Studies in Biology (1999 – 2002), University of Würzburg, Diploma 2002
supervisor: Prof. Dr. Martin Heisenberg

Advanced academic qualifications

2006 Doctorate (Ph.D.): Biology, University of Würzburg, Supervisor: Prof. Dr. Martin Heisenberg

Postgraduate professional career

since 2017 Professor at the Department of Genetics at the University of Leipzig
2011-2017 Emmy-Noether group leader at the Department of Biology, University of Konstanz
2010-2011 Oberassistent (Assistant Professor) and independent group leader at the Department of Biology, University of Fribourg, Switzerland
2006- 2010 Postdoctoral fellow, University of Fribourg, Switzerland, Prof. Dr. Reinhard Stocker

Other

2018 Organizer of the Arthropod Neuroscience Network meeting
since 2015 Organizer of an international Lead-Agency project awarded by the DFG
2014-2016 Fellow of the Elite Program of the Baden-Württemberg Stiftung
2013-2017 Directorate Member of the Graduate School "Biological Sciences"
2012-2017 Liaison lecturer of the Department of Biology of the University of Konstanz
2012 Organiser, Symposium at 105th annual Meeting of the German Zoological Society
2011-2017 Fellow of the Zukunftskolleg of the University of Konstanz
since 2011 Visiting Scientist of the HHMI Janelia Research Campus
2011 Emmy-Noether Group Leader awarded by the DFG
2009 Organiser, Symposium at the annual Swiss Society of Neuroscience Meeting
2009 Organiser, 1st Swiss Neurofly Meeting

Publications

1. Schumann I, Berger M, Nowag N, Schäfer Y, Saumweber J, Scholz H, Thum AS. 2021 Ethanol-guided behavior in *Drosophila* larvae. **Sci Rep** 10:12307
2. Eschbach C, Fushiki A, Winding M, Schneider-Mizell CM, Shao M, Arruda R, Eichler K, Valdes-Aleman J, Ohyama T, Thum AS, Gerber B, Fetter RD, Truman JW, Litwin-Kumar A, Cardona A, Zlatic M. 2020 Recurrent architecture for adaptive regulation of learning in the insect brain. **Nat Neurosci** 23: 544-555
3. Pfeifle I, Bohnkamp J, Volkhardt A, Kirsten H, Rohwedder A, Thum A, Magin TM, Kunz M. 2019 MEK inhibitor cobimetinib rescues a dRaf mutant lethal phenotype in *Drosophila melanogaster*. **Exp Dermatol** 28: 1079-1082
4. Lyutova R, Selcho M, Pfeuffer M, Segebarth D, Habenstein J, Rohwedder A, Frantzmann F, Wegnener C, Thum AS, Pauls D. 2019 Reward signaling in a recurrent circuit of dopaminergic neurons and peptidergic Kenyon cells. **Nat Commun** 10:3097
5. Saumweber T, Rohwedder A, Schleyer M, Eichler K, Chen Y, Aso Y, Cardona A, Eschbach C, Kobler O, Voigt A, Durairaja A, Mancini N, Zlatic M, Truman J, Thum AS[#], Gerber B[#]. 2018 Functional architecture of reward learning in mushroom body extrinsic neurons of larval *Drosophila*. **Nat Commun** 9:1104
6. Muenzing SEA, Strauch M, Truman JW, Bühler K, Thum AS, Merhof D. 2018 larvalign: aligning gene expression patterns from the larval brain of *Drosophila melanogaster*. **Neuroinformatics** 1:65-80
7. Eichler K, Li F, Litwin-Kumar A, Park Y, Andrade I, Schneider-Mizell CM, Saumweber T, Huser A, Eschbach C, Gerber B, Fetter RD, Truman JW, Priebe CE, Abbott LF[#], Thum AS[#], Zlatic M[#], Cardona A[#]. 2017 The complete connectome of a learning and memory centre in an insect brain. **Nature** 7666:175-182
8. Widmann A, Artinger M, Biesinger L, Boepple K, Peters C, Schlechter J, Selcho M, Thum AS. 2016 Genetic dissection of aversive associative olfactory learning and memory in *Drosophila* larvae. **PLoS Genet** 12:e1006378
9. Rohwedder A, Wenz NL, Stehle B, Huser A, Yamagata N, Zlatic M, Truman J, Tanimoto H, Saumweber T, Gerber B, Thum AS. 2016 our individually identified paired dopamine neurons signal reward in larval *Drosophila*. **Curr Biol** 26:661-9
10. Pauls D, Selcho M, Gendre N, Stocker RF, Thum AS. 2010 *Drosophila* larvae establish appetitive olfactory memories via mushroom body neurons of embryonic origin. **J Neurosci** 30:10655-66

[#] shared correspondence

* equal contribution