

Publications - Dr. Markus Thamm

2021

Thamm, M; Wagler, L.; Brockmann, A. & Scheiner, R. 2021: Tyramine 1 receptor distribution in the brain of corbiculate bees points to a conserved function. *Brains, Behavior and Evolution* (accepted Manuskript)

Habenstein, J.; **Thamm, M** & Rössler, W. 2021: Neuropeptides as potential modulators of behavioral transitions in the ant *Cataglyphis nodus*. *Journal of Comparative Neurology* 529(12):3155–3170

2020

Scheiner, R.; Strauß, S.; **Thamm, M;** Farré-Armengol, G. & Junker, R. 2020: The Bacterium *Pantoea ananatis* Modifies Behavioral Responses to Sugar Solutions in Honeybees. *Insects* 11(10):692

2019

Thölken*, C.; **Thamm***, M; Erbacher, C. & Lechner, M. 2019: Sequence and structural properties of circular RNAs in the brain of nurse and forager honeybees (*Apis mellifera*). *BMC Genomics* 20(1):88

*equal contributor

George, E. A.; Bröger, A.; **Thamm, M;** Brockmann, A. & Scheiner, R. 2019: Inter-individual variation in honey bee dance intensity correlates with expression of the foraging gene. *Genes, Brain and Behavior* 10.1111/gbb.12592

2018

Thamm, M; Sturm, K.; Schlossmann, J. & Scheiner, R. 2018: Levels and activity of cyclic guanosine monophosphate-dependent protein kinase in nurse and forager honeybees. *Insect Molecular Biology* 27:815–823

Değirmenci, L.; **Thamm, M** & Scheiner, R. 2018: Responses to sugar and sugar receptor gene expression in different social roles of the honeybee (*Apis mellifera*). *Journal of Insect Physiology* 106:65–70

2017

Thamm, M; Scholl, C.; Reim, T.; Grübel, K.; Möller, K.; Rössler, W. & Scheiner, R. 2017: Neuronal distribution of tyramine and the tyramine receptor AmTAR1 in the honeybee brain. *The Journal of Comparative Neurology* 525:2615–2631

Blenau, W.; Stöppler, D.; Balfanz, S.; **Thamm, M** & Baumann, A. 2017: Dm5-HT2B: Pharmacological Characterization of the Fifth Serotonin Receptor Subtype of *Drosophila melanogaster*. *Frontiers in Systems Neuroscience* 11:28

Scheiner, R.; Entler, B.; Barron, A.; Scholl, C. & **Thamm, M.** 2017a: The Effects of Fat Body Tyramine Level on Gustatory Responsiveness of Honeybees (*Apis mellifera*) Differ between Behavioral Castes. *Frontiers in Systems Neuroscience* 11:55

Scheiner, R.; Reim, T.; Sjøvik, E.; Entler, B.; Barron, A. & **Thamm, M.** 2017b: Learning, gustatory responsiveness and tyramine differences across nurse and forager honeybees. *Journal of Experimental Biology* 220:1443–1450

Reim, T.; Balfanz, S.; Baumann, A.; Blenau, W.; **Thamm, M** & Scheiner, R. 2017: AmTAR2: Functional characterization of a honeybee tyramine receptor stimulating adenylyl cyclase activity. *Insect Biochemistry and Molecular Biology* 80:91 – 100

2014

Scheiner, R.; Kulikovskaja, L. & **Thamm, M**. 2014: The honey bee tyramine receptor AmTYR1 and division of foraging labour. *The Journal of Experimental Biology* 217(8):1215–1217

Thamm, M & Scheiner, R. 2014: PKG in honey bees: Spatial expression, *Amfor* gene expression, sucrose responsiveness, and division of labor. *The Journal of Comparative Neurology* 522(8):1786–1799

2013

Thamm, M; Rolke, D.; Jordan, N.; Balfanz, S.; Schiffer, C.; Baumann, A. & Blenau, W. 2013: Function and Distribution of 5-HT₂ Receptors in the Honeybee (*Apis mellifera*). *PLOS ONE* 8(12):1–12

Reim, T.; **Thamm, M**; Rolke, D.; Blenau, W. & Scheiner, R. 2013: Suitability of three common reference genes for quantitative real-time PCR in honey bees. *Apidologie* 44(3):342–350

Blenau, W.; **Thamm, M** & Baumann, A. 2013: Serotonin in insects: distribution, biosynthesis, uptake, inactivation, receptors, functions, and implications for human health. *Serotonin: Biosynthesis, Regulation and Health Implications.*, (edited by F. S. Hall), pages 1–26. NOVA Publishers, New York

2011

Blenau, W. & **Thamm, M**. 2011: Distribution of serotonin (5-HT) and its receptors in the insect brain with focus on the mushroom bodies: lessons from *Drosophila melanogaster* and *Apis mellifera*. *Arthropod Structure & Development* 40(5):381–394

2010

Thamm, M; Balfanz, S.; Scheiner, R.; Baumann, A. & Blenau, W. 2010a: Characterization of the 5-HT_{1A} receptor of the honeybee (*Apis mellifera*) and involvement of serotonin in phototactic behavior. *Cellular and Molecular Life Sciences* 67:2467–2479

Thamm, M; Schmidt, S. & Bernhard, D. 2010b: Insights into the phylogeny of the genus *Stentor* (Heterotrichea, Ciliophora) with special emphasis on the evolution of the macronucleus based on SSU rDNA data. *Acta Protozoologica* 2010(3):149–157