PUBLICATIONS – CLAUDIA GROH

JUNI 2024

REVIEWED BOOK CHAPTERS

23. Rössler W, **Groh C** (2012) Plasticity of synaptic microcircuits in the mushroom-body calyx of the honey bee. In: Galizia CG, Eisenhardt D, Giurfa M, editors. Honeybee neurobiology and behavior. Berlin: Springer Verlag, p 141–151

PUBLICATIONS IN PEER-REVIEWED JOURNALS

22. Kraft N, Muenz TS, Reinhard S, Werner C, Sauer M, **Groh C**, Rössler W (2023) Expansion microscopy in honeybee brains for high-resolution neuroanatomical analyses in social insects, *Cell and Tissue Research* 393:489-506. doi.org/10.1007/s004411-023-03803-4

21. Grob R, Tritscher C, Grübel K, Stigloher C, **Groh C**, Fleischmann PN, Rössler W (2021) Johnston's organ and its central projections in *Cataglyphis* desert ants, *Journal of Comparative Neurology* 529:2138-2155. doi.org/10.1002/cne.25077

20. **Groh C**, Rössler W (2020) Analysis of synaptic microcircuits in the mushroom bodies of the honeybee. *Insects* 11:43 (with cover). doi.org/10.3390/insects11010043

19. Gardenne C, **Groh C**, Grübel K, Joschinski J, Krauss J, Krieger J, Rössler W, Anton S (2019) Neuroanatomical correlates of mobility: Sensory brain centres are bigger in winged than in wingless parthenogenetic pea aphid females. *Arthropod Structure and Development* 52:100883. doi.org/10.1016/j.asd.2019.100883

18. Kraft N, Spaethe J, Rössler, W, **Groh C** (2018) Neuronal plasticity in the mushroom-body calyx of bumble bee workers during early adult development. Accepted for publication in *Developmental Neurobiology* 9:287-302. doi.org/10.1002/dneu.22678

17. Cabirol A, Brooks R, **Groh C**, Barrron A, Devaud JM (2017) Experience during early adulthood shapes the learning capacities and the number of synaptic boutons in the mushroom bodies of the honey bees (*Apis mellifera*). *Learning & Memory* 24:557-562. doi.org/10.1101/lm.045492.117

16. Rössler W, Spaethe W, **Groh C** (2017) Pitfalls of using confocal-microscopy based automated quantification of synaptic complexes in honeybee mushroom bodies (*response to Peng and Yang 2016*). *Scientific Reports* 7:9786. doi.org/10.1038/s41598-017-09967-8

15. Falibene A, Roces F, Rössler W, **Groh C** (2016) Daily thermal fluctuations experienced by pupae via rhythmic nursing behavior increase numbers of mushroom body microglomeruli in the adult ant brain. *Frontiers in Behavioral Neuroscience* 10:73. doi.org/10.3389/fnbeh.2016.00073

14. Yilmaz A, Lindenberg A, Albert S, Grübel K, Spaethe J, Rössler W, **Groh C** (2016) Age-related and light-induced plasticity in opsin gene expression and in primary and secondary visual centers of the nectar-feeding ant *Camponotus rufipes*. *Developmental Neurobiology* 76:1041-1057 (with cover). doi.org/10.1002/dneu.22374

13. Muenz TS, **Groh C**, Maisonnasse A, Le Conte Y, Plettner E, Rössler W (2015) Neuronal plasticity in the mushroom body calyx during adult maturation in the honeybee and possible pheromonal influences. *Developmental Neurobiology* 75:1368-1384. doi.org/10.1002/dneu.22290

12. **Groh C**, Kelber C, Grübel K, Rössler W (2014) Density of mushroom body synaptic complexes limits intraspecies brain miniaturization in highly polymorphic leaf-cutting ant workers. *Proceedings of the Royal Society B* 281:20140432. doi.org/10.1098/rspb.2014.0432

11. **Groh C**, Lu Z, Meinertzhagen I, Rössler W (2012) Age-related plasticity in the synaptic ultrastructure of neurons in the mushroom body calyx of the adult honeybee *Apis mellifera*. *The Journal of Comparative Neurology* 520:3509-3527. doi.org/10.1002/cne.23102

10. **Groh C**, Mayer G (2011) Evolution of the arthropod nervous system. *Arthropod Structure and Development* 40:191-192. doi.org/10.1016/j.asd.2011.05.001

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7. Leiss F, **Groh C**, Butcher N, Meinertzhagen IA, Tavosanis G (2009) Synaptic organization in the adult *Drosophila* mushroom body calyx. *The Journal of Comparative Neurology* 517:808-824. doi.org/10.1002/cne.22184

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