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## PUBLICATIONS

### Peer-reviewed Articles

- Grob, R., Jundi, B., Fleischmann, P. N. (2021).**  
Towards a common terminology for arthropod spatial orientation. *Ethol. Ecol. Evol.* 00, 1–21.  
doi:10.1080/03949370.2021.1905075.
- Grob, R., Tritscher, C., Grübel, K., Stigloher, C., Groh, C., Fleischmann, P. N., Rössler, W. (2021).**  
Johnston’s organ and its central projections in *Cataglyphis* desert ants. *The Journal of Comparative Neurology* 529, 2138–2155. doi:10.1002/cne.25077. - cover story
- Fleischmann, P.N., **Grob, R.**, and Rössler, W. (2020).  
Magnetoreception in Hymenoptera: importance for navigation. *Animal Cognition.* 23, 1051–1061.  
doi: 10.1007/s10071-020-01431-x.
- Grob, R.**, Fleischmann, P.N., and Rössler, W. (2019).  
Learning to navigate – how desert ants calibrate their compass systems. *Neuroforum.* 25:2, 109–120. doi: 10.1515/nf-2018-0011. - cover story
- Fleischmann, P.N.\*, **Grob, R.\***, Müller, V.L., Wehner, R., and Rössler, W. (2018).  
The Geomagnetic Field Is a Compass Cue in *Cataglyphis* Ant Navigation. *Current Biology.* 28 :9, 1440–1444 doi: 10.1016/j.cub.2018.03.043. \*shared first authorship
- Grob, R.\***, Fleischmann, P.N.\*, Grübel, K., Wehner, R., and Rössler, W. (2017).  
The Role of Celestial Compass Information in *Cataglyphis* Ants during Learning Walks and for Neuroplasticity in the Central Complex and Mushroom Bodies. *Frontiers in Behavioral Neuroscience.* 11:226. doi: 10.3389/fnbeh.2017.00226. \*shared first authorship
- Fleischmann, P. N., **Grob, R.**, Wehner, R., and Rössler, W. (2017).  
Species-specific differences in the fine structure of learning walk elements in *Cataglyphis* ants. *Journal of Experimental Biology.* 220, 2426–2435. doi:10.1242/jeb.158147.

### Popular Scientific Articles

- Fleischmann, P. N., **Grob, R.**, and Rössler, W. (2020).  
Kompass im Kopf - Wie Wüstenameisen lernen heimzukehren (Ant compass – how desert ants learn to navigate). *Biologie In Unserer Zeit.* 2/2020:50, 100–109. doi: 10.1002/biuz.202010699. - cover story

