Publications of Dr. Katharina Beer: **(April 30th, 2025)**

Roy, T., & **Beer, K.** (2024). Time memory in social insects with a special focus on honey bees. *Current Opinion in Insect Science*, 101327.

Beer, K., Zupanc, G. K., & Helfrich-Förster, C. (2024). Ingeborg Beling and the time memory in honeybees: almost one hundred years of research. *Journal of Comparative Physiology A*, *210*(2), 189-201.

Beer K, Härtel S, Helfrich-Förster C (2022). The pigment-dispersing factor neuronal network systematically grows in developing honey bees. J of Comparative Neurology, 1-20.

Colizzi, FS, **Beer, K,** Cuti, P, Deppisch, P, Martínez Torres, D, Yoshii, T, and Helfrich-Förster, C (2021). Antibodies against the clock proteins period and cryptochrome reveal the neuronal organization of the circadian clock in the pea aphid. Front. Physiol. *12*, 705048.

Beer K, and Helfrich-Förster C (2020b). Model and non-model insects in chronobiology. Front. Behav. Neurosci. *14,* 1-23.

Beer K, and Helfrich-Förster C (2020a). Post-embryonic development of the circadian clock seems to correlate with social life style in bees. Front. Cell Dev. Biol. *8*, 1-9.

Beer K, Bloch G (2020). Circadian plasticity in honey bees. The Biochemist, *42*, 22–26.

Menegazzi P, **Beer K**, Grebler V, Schlichting M, Schubert F K, and Helfrich-Förster C (2020). A functional clock within the main morning and evening neurons of *D. melanogaster* is not sufficient for wild-type locomotor activity under changing day length. Front. Physiol. *11*, 229.

Beer K, Schenk M, Helfrich-Förster C, and Holzschuh A (2019). The circadian clock uses different environmental time cues to synchronize emergence and locomotion of the solitary bee *Osmia bicornis*. Sci. Rep. 9, 1, 17748.

Beer K, Kolbe E, Kahana NB, Yayon N, Weiss R, Menegazzi P, Bloch G and Helfrich-Förster C (2018) Pigment-dispersing factor-expressing neurons convey circadian information in the honey bee brain. Open Biology, *8*, 1, 170224.

Beer K, Joschinski J, Arrazola Sastre A, Krauss J, and Helfrich-Förster C (2017). A damping circadian clock drives weak oscillations in metabolism and locomotor activity of aphids (*Acyrthosiphon pisum*). Sci. Rep. *7*, 1, 14906.

Fuchikawa T, **Beer K**, Linke-Winnebeck C, Ben-David R, Kotowoy A, Tsang VWK., Warman GR, Winnebeck EC, Helfrich-Förster C, and Bloch G (2017). Neuronal circadian clock protein oscillations are similar in behaviourally rhythmic forager honeybees and in arrhythmic nurses. Open Biology, *7*, 6, 170047.

Joschinski J, **Beer K**, Helfrich-Förster C, and Krauss J (2016). Pea Aphids (Hemiptera: Aphididae) Have diurnal rhythms when raised independently of a host plant. J. Insect Sci. *16*, 31.

Beer K, Steffan-Dewenter I, Härtel S, and Helfrich-Förster C (2016). A new device for monitoring individual activity rhythms of honey bees reveals critical effects of the social environment on behavior. J. Comp. Physiol. A *202*, 555–565.