

List of Publications

Goldschmidt D, Tastekin I, Münch D, Park J-Y, **Haber Kern H**, Serra L, Baltazar C, Jayaraman V, Rubin GM, Ribeiro C. **A neuronal substrate for translating nutrient state and resource density estimations into foraging decisions.** (2023) *bioRxiv* doi: <https://doi.org/10.1101/2023.07.19.549514>

Liessem S, Held M, Bisen RS, **Haber Kern H**, Lacin H, Bockemühl T, Ache JM. **Behavioral state-dependent modulation of insulin-producing cells in Drosophila.** (2023) *Current Biology*. doi: 10.1016/j.cub.2022.12.005.

Haber Kern H, Chitnis SS, Hubbard PM, Goulet T, Hermundstad, AM, Jayaraman V. (2022). **Maintaining a stable head direction representation in naturalistic visual environments.** *bioRxiv* doi: <https://doi.org/10.1101/2022.05.17.492284>

Hulse BK*, **Haber Kern H***, Franconville R*, Turner-Evans DB*, Takemura S, Wolff T, Noorman M, Dreher M, Dan C, Parekh R, Hermundstad AM, Rubin GM, Jayaraman V (2021). **A connectome of the Drosophila central complex reveals network motifs suitable for flexible navigation and context-dependent action selection.** *eLife* 2021;10:e66039 DOI: 10.7554/eLife.66039 *shared first-author

Haber Kern H, Basnak MA, Ahanonu B, Schauder D, Cohen JD, Bolstad M, Bruns C, Jayaraman V. (2019). **Visually Guided Behavior and Optogenetically Induced Learning in Head-Fixed Flies Exploring a Virtual Landscape.** *Current Biology*, Volume 29, Issue 10, 1647-1659.e8.

Haber Kern H, Hedwig B. (2016). **Behavioural integration of auditory and antennal stimulation during phonotaxis in the field cricket *Gryllus bimaculatus*.** *Journal of Experimental Biology*. 219: 3575-3586.

Haber Kern H, Jayaraman V. (2016). **Studying small brains to understand the building blocks of cognition.** *Current Opinion in Neurobiology*. 37: 59-65.

Milde F, Tauriello G, **Haber Kern H**, Koumoutsakos P. (2014). **SEM++: A particle model of cellular growth, signaling and migration.** *Computational Particle Mechanics*. 1: 211-227.

Wang D, Freitag F, Gattin Z, **Haber Kern H**, Jaun B, Siwko M, Vyas R, Vangunsteren WF, Dolenc J. (2012). **Validation of the GROMOS 54A7 force field regarding mixed α/β -peptide molecules.** *Helvetica Chimica Acta*. 95: 2562-2577.

Eschbach C, Cano C, **Haber Kern H**, Schraut K, Guan C, Triphan T, Gerber B. (2011). **Associative learning between odorants and mechanosensory punishment in larval Drosophila.** *Journal of Experimental Biology*. 214: 3897-3905.