

## Seminarthemen MM 2019

### Peptides/Nepriylisin

1. Hallier et al. (2016) Nepriylisins control insulin signaling via cleavage of regulatory peptides. *eLIFE* 2016,5:e19430
2. Magny et al. (2013) Conserved regulation of cardiac calcium uptake by peptides encoded in small open reading frames. *Science*. 2013 Sep 6;341(6150):1116-20.

### Heart ageing und Physiology

3. Zheng et al (2017) Lifetime regular exercise affects the incident of different arrhythmias and improves organismal health in aging female *Drosophila melanogaster*. *Biogerontology*. 2017 Feb;18(1):97-108. doi: 10.1007/s10522-016-9665-5. Epub 2016 Oct 27.
4. Kezos et al. (2017) Starvation but not locomotion enhances heart robustness in *Drosophila*. *J Insect Physiol*. 2017 Mar 8;99:8-14.

### Nephrocytes

5. Weavers et al. (2008) The insect nephrocyte is a podocyte-like cell with a filtration slit diaphragm. *Nature* 457(7227): 322-326
6. Ivy et al. (2015) Klf15 is critical for the development and differentiation of *Drosophila* nephrocytes. *PLoS One* 10(8): e0134620.

### TEM Nephrocytes (

7. Helmstädter et al. (2012) Functional study of mammalian Neph proteins in *Drosophila melanogaster*. *PLoS ONE* 7(7): e40300.
8. Psathaki et al (2018) *Drosophila* pericardial nephrocyte ultrastructure changes during ageing. *Mechanisms of Ageing and Development (Mech Ageing Dev.)* 173: 9-20. doi: 10.1016/j.mad.2018.04.006

### Matrix and Lumen

9. Drechsler et al. (2013) The conserved ADAMTS-like protein Lonely heart mediates matrix formation and cardiac tissue integrity. *PLOS Genetics* 9(7): e1003616.

### Matrix and Lumen

10. Rotstein, Post et al. (2018) Distinct domains present in the matricellular protein Lonely heart are crucial for cardiac extracellular matrix formation and heart function in *Drosophila melanogaster*. *Journal of Biological Chemistry (JBC)* 293 (20): 7864-7879. doi: 10.1074/jbc.M117.817940

### Cardiac Valves

11. Lammers, K.\*, Abeln, B.\*, Hüsken, M.\*, Lehmacher, C., Psathaki, O.E., Alcorta, E., Meyer, H. and Paululat, A. (2017) Formation and function of intracardiac valve cells in the *Drosophila* heart. *Journal of Experimental Biology (JEB)* 220 (10): 1852-1863. doi: 10.1242/jeb.156265.