



Life Sciences Seminar

A painful tale: Development and function of a nociceptive circuit

Peter Soba

ZMNH University Hospital Hamburg

Host: Harald Janovjak

Nociception is an evolutionary conserved mechanism to encode and process harmful environmental stimuli. Most animals respond to a variety of nociceptive stimuli, including noxious touch and temperature, with a stereotyped escape response through activation of multimodal nociceptors, which are part of the somatosensory system. How the underlying network encodes specific behavioral responses to distinct stimuli remains poorly understood. We are interested in developmental signals which allow establishing such a functional circuit and investigate how the somatosensory network encodes modality specific behavior. To this end, we utilize *Drosophila* as a model organism, where we combine powerful molecular genetics with morphological, functional and behavioral analyses. Our studies point to a surprising wealth of conserved molecular mechanisms governing circuit development and function.

Friday, June 16, 2017 11:00am - 12:00pm

Mondi Seminar Room 2, Central Building



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.