International Symposium

Olfaction in insects under debate: from receptors to behavior

Würzburg July 20th 2012

Organizers: Monika Stengl and Wolfgang Rössler
July 19th:
Arrival

July 20th:

**Symposium site: Toscana-Saal, Würzburger Residenz**

8:30 Registration

9:00 - 9:10 am Introductory remarks:
Monika Stengl, Wolfgang Rössler
"Insect olfaction under debate: the "burning" questions - contradicting results"

*Encoding of odors at the periphery in insect antennae*

09:10 - 9:40 am Richard Benton (Lausanne, Switzerland)
"The evolving social network of *Drosophila*"

09:40 - 10:00 am Jürgen Krieger (Hohenheim, Germany)
"Teamwork in signal detection: Molecular basis of pheromone reception in moths"

10:00 - 10:20 am Monika Stengl (Kassel, Germany)
"Zeitgeber-time-dependent rhythms of pheromone transduction in the hawkmoth *Manduca sexta*"

20 min coffee break

*Encoding of odors in the antennal lobe*

10:40 - 11:10 am Jeff Riffell (Seattle, USA)
"Olfactory coding of innate and learned odors in the antennal lobe of the moth, *Manduca sexta*"

11:10 - 11:30 am Hong Lei (Tucson, USA)
"A new understanding on inhibitory mechanisms that shape neural responses in the antennal lobe of *M. sexta*"

11:30 - 11:50 am Wolfgang Rössler (Würzburg, Germany)
"Parallel processing in the honeybee olfactory pathway"

12:00 - 01:15 pm Lunch
Encoding of odors in higher brain centers

01:15 - 01:45 pm  Ryohei Kanzaki (Tokyo, Japan)
"Analysis and synthesis of odor source localization in the silkmoth"

01:45 - 02:05 pm  Neil Vickers (Salt Lake City, USA)
"Processing Olfactory Information in Higher Brain Centers of the Moth"

02:05 - 02:25 pm  Giovanni Galizia (Konstanz, Germany)
"Odor coding in insects 15 years after the first calcium imaging study"

25 min coffee break

Odor-dependent behavior

02:50 - 03:20 pm  Mark Willis (Cleveland, USA)
"Following your nose: How environment, sensor structure and locomotion interact to structure behavior"

03:20 - 03:40 pm  Brian Smith (Tempe, USA)
"Of moths and bees: Plasticity in early olfactory processing and its function in processing complex, variable floral odors"

03:40 - 04:00 pm  Bill Hansson (Jena, Germany)
"Manduca jenensis"

4:00 pm  Open Discussion and Summary
"Insect odor processing from the periphery to the behavior: what do we agree on?"

Evening program: Garden Pavillon, Juliusspital

6:15 pm:  Dinner

8:15 -9:00 pm  Evening lecture
Edward Kravitz (Boston, USA)
"Genetic manipulations in the fruit fly fight club: the role of amine neurons in aggression studied at a single cell level: does olfaction play a role for aggression?"

9:00 pm - open end:  Discussions

July 21st  Departure