

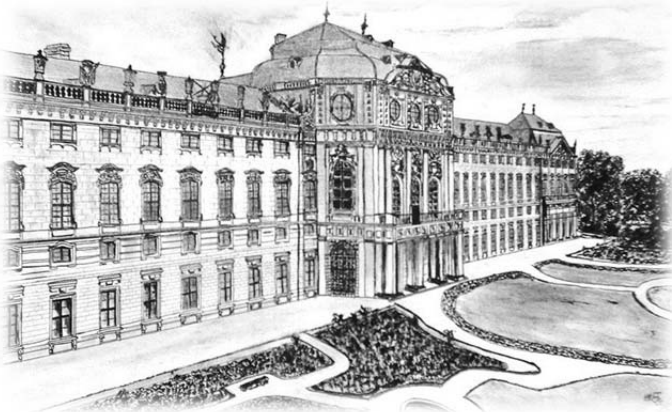


International Symposium

Olfaction in insects under debate: from receptors to behavior

Würzburg July 20th 2012

Organizers: Monika Stengl and Wolfgang Rössler



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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)

"Zeitgebertime-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 silkworm"
- 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**