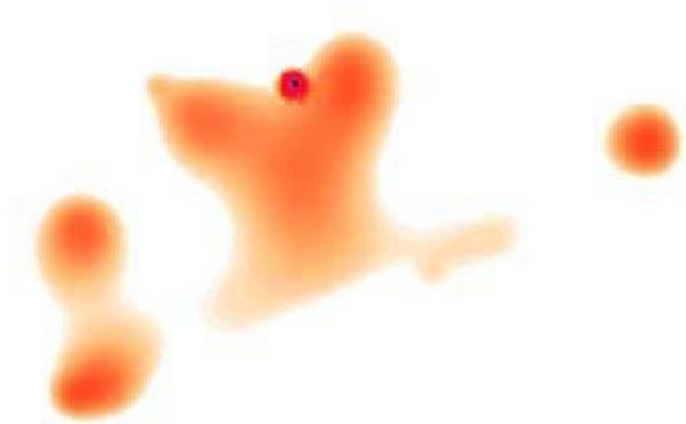




This Summerschool is generously sponsored by DFG / [Priority Programme SPP 1392](#) !



# [ECRO](#) supported **2011** **SUMMER SCHOOL on** **HUMAN OLFACTION**

July 24<sup>th</sup>, to Juli 29<sup>th</sup>, of 2011, in Dresden, Germany.

We also thank our additional sponsors: **DVRH** Deutscher Verband der Riechstoff-Hersteller e.V. ,



Special thanks goes to CESG France (Centres européens associés).

, the CNRS France

and LEA (Laboratoires

**ECRO provides travel funds** specifically for this year's Summerschool – for details see [http://www.ecro-online.info/index.php?option=com\\_content&task=view&id=19&Itemid=27](http://www.ecro-online.info/index.php?option=com_content&task=view&id=19&Itemid=27)

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**Links:** [General information](#) - [Lecturers](#) - [Contact](#) - [Abstracts](#) - [Timetable](#) - [Site map of the clinic](#) - [How to get to the guesthouse](#) - [Previous participants](#)

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## General information

**Aim:** The conference is meant to provide an informal platform for scientific exchange between established scientists and younger researchers in the fields related to chemosensation. In addition, it is meant to provide participants with up-to-date knowledge on various aspects of the human chemical senses not only through seminars - there will be a strong focus on practical demonstrations and experiments (see [program](#)).

**Location:** It will be organized through the [Smell & Taste Clinic](#) of the [Department of Otorhinolaryngology](#) of the University of Dresden Medical School, Fetscherstrasse 74, 01307 Dresden, Germany, phone +49-351-458-4189. The meeting will be held in the vicinities (the lecture hall - "Hörsaal") of the [Herzzentrum Dresden](#), Fetscherstrasse 76, 01307 Dresden, Germany, phone +49-351-450-0.

**Fee for participation is 250 Euro** ([for details please click here](#)). Participants with an industrial background pay 750 Euro. This fee covers breakfast, conference dinner at [Schloss Eckberg](#), a welcome buffet at [BELLAN Restaurant](#), a barbecue, and an excursion to the surroundings of Dresden. **The number of applicants will be limited to 30**

Sunday afternoon (24<sup>th</sup> of July) there will also be a chance to join a **guided city tour** through Dresden (it is free). It starts at 1 p.m. at the [guesthouse](#) at Gutenbergstrasse 6, 01307 Dresden, and it will end at [University Clinic, Department of Neuroradiology, Haus 59, MRI I](#).

Also, Sunday afternoon, between 3.30 and 6.30 p.m. you have a chance to visit the [University Clinic, Department of Neuroradiology, Haus 59, MRI I](#), to join us in order to **get functional images or structural images** of your brain/olfactory bulb (this is also free).

Please let [Thomas Hummel](#) know in advance whether you would like to participate in either event.

**The welcome gettogether will take place on Sunday evening (July 24<sup>th</sup>) between 7 and 12 p.m., at the Bellan Villa Germania, [Loschwitzer Str. 36, Dresden](#) (how to get there: [see also PDF for download](#))**

[Please click here for a schedule for Monday morning presentations](#)

For housing please contact [Thomas Hummel](#) for details. We booked rooms for participants at a [guesthouse](#) very close to the Clinic ([how to get there: please click here](#) or, for [an overview, click here](#)), and where we also receive a special rate of 47 Euro per night (including breakfast). It is planned that all participants will stay at this place.

**Deadline** for registration was the **1st of May 2011**.

Continuing medical education: Participation in all aspects of the meeting will get you 51

points (Sun: 4, Mon: 10, Tue: 10, Wed: 7, Thu: 10, Fri: 10).



Please contact [Thomas Hummel](#) for details.

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**Links:** [General information](#) - [Lecturers](#) - [Contact](#) - [Abstracts](#) - [Timetable](#) – [Groups](#) - [Site map of the clinic](#) - [How to get to the guesthouse](#) - [Previous participants](#) - [Current participants](#)

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## Lecturers

The following **lecturers** will participate:

[Maria Larsson](#) (Stockholm, Sweden) - [cognition, odor memory](#)

[Matthias Laska](#) (Linköping, Sweden) - [chemosensory discrimination](#)

[Steven Nordin](#) (Umea, Sweden) - Environmental Chemosensory Hypersensitivity

[Philippe Rombaux](#) (Brussels, Belgium) – structural MR imaging

[Ute Habel](#) (Aachen, Germany) - Odors and emotions

[Ariel Schoenfeld](#) (Magdeburg, Germany) – functional imaging

[Benoist Schaal](#) ([Dijon, France](#)) - [chemosensory development](#)

[Christian Margot](#) (Geneva, Switzerland) - structure-odor relations, assessment of odor thresholds

[Silvain Lacroix](#) ([Geneva, Switzerland](#)) - [neurogenic inflammation of the nasal mucosa and olfaction impairment](#)

[Nancy Rawson](#) (St. Louis, MO, USA) - [Olfactory cell biology in health and disease: methods and models](#)

[Mats Olsson](#) (Uppsala, Sweden) - Psychophysics and the perception of odor mixtures  
[Sidney Simon](#) (Durham, USA) - a sense of taste  
[Martin Witt](#) (Rostock, Germany) - [morphology of human olfaction](#)  
[Tino Just](#) (Rostock, Germany) - taste dysfunction

lecturers from Dresden will include:

Emilia Iannilli - [functional MR imaging of chemosensory induced activation](#)  
[Thomas Hummel](#) - [evoked potential olfactometry, recordings from the mucosa](#)  
[Antje Hähner](#) - [olfaction in Parkinsonian syndromes](#)

In addition to the demonstrations/experiments given by/performed together with each of the lecturers, among others there will be practical demonstrations of [endoscopy of the nasal cavity](#), [rhinomanometry](#), [blood flow](#), [acoustic rhinometry](#), recordings of electro-olfactograms, recordings of event-related potentials, and clinical aspects of olfactory dysfunction (diagnosis, treatment).

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## Contact

[Thomas Hummel, M.D.](#)

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## Abstracts

[Maria Larsson](#), Ph.D.

### **Cognition, odor memory**

The talk and demonstration will include theoretical and methodological aspects in the assessment of life-span changes in chemosensory functioning. One important issue concerns cross-sectional vs longitudinal assessment, advantages and disadvantages with the respective method (e.g., practice effects, costs, environmental confounders). Also, various aspects of olfactory cognitive processing will be highlighted. In particular, the relationship between various forms of odor memory and how they relate to the different memory systems will be addressed (e.g., the most simple forms of olfactory learning, conditioning as contrasted with the most complex form - episodic odor recognition). The theoretical part will

be combined with a practical demonstration of behavioral assessment of episodic and semantic odor memory and how these two forms of memory are related.

[Matthias Laska](#), Ph.D.

### **Discrimination of odors? or: why does it smell different ?**

Humans are capable of discriminating between an enormous number of odors. The question of how the olfactory system achieves this amazing ability is one of the central topics in olfactory research and is of both theoretical and practical interest. This lecture aims at giving an overview with regard to the present knowledge about the neural basis of odor discrimination, odor structure-activity relationships, the psychophysical methods used to measure discrimination performance, and comparative data on discriminability of structurally related odorants. Experiments performed by the participants shall illustrate the advantages and disadvantages of different methods and their influence on the outcome of odor discrimination tasks.

[Mats Olsson](#), Ph.D.

### **Psychophysics and the perception of odor mixtures**

The perception of odor mixtures offers an intriguing problem in olfactory perception. This lecture will describe the rules for mixture processing and will also offer some hands-on experience.

[Steven Nordin](#), Ph.D.

### **Environmental Chemosensory Hypersensitivity**

This lecture will cover environmental chemosensory hypersensitivity from a broad perspective. In addition to sensory, cognitive and neural aspects of olfaction and chemosomatosensation, this topic will be approached by including aspects such as affect and personality. We will discuss various forms and diagnoses of this hypersensitivity, symptomology, quality of life, assessment, prevalence and co-prevalence with other types of environmental hypersensitivities and medically unexplained syndromes, risk factors, possible underlying mechanisms, and coping-strategies and social support.

[Benoist Schaal](#), Ph.D.

### **Chemosensory development: Assessing olfaction in preverbal humans**

The study of perception has generated contrasted models of development where nativist and constructivist views oppose. Olfaction is no exception, but this talk will present data that reconcile both conflicting parties in showing that the odour environment strongly influences olfactory development from very early on, long before birth. Data will be presented on the structural development and functional onset of olfaction, on the developmental course of olfactory sensitivity and discriminative power, and on learning and memory processes. The performance of the sense of smell will be described in the context of issues of communication and adaptation, emphasising evolved and learned perceptual predispositions. Experimental paradigms to investigate odour perception and cognition will be described in early human development with special emphasis on the numerous issues that remain to be resolved. Finally, the value of using animal models will be highlighted to test hypotheses that

are raised in the human, or conversely to import new questions to the understanding of our own species.

[Ariel Schoenfeld](#), M.D.

### **Functional imaging of taste perception**

The presentation will cover basic as well as also more advanced aspects of functional imaging of taste perception. Hemodynamic measures (fMRI) and electrophysiological measures (EEG,MEG) have so far provided conflicting information with respect to the localization of the primary gustatory cortex. The reasons for this conflict will be discussed and a possible solution will be presented.

[Ute Habel](#) , Ph.D.

### **Odors and emotions**

Over the last decades, olfaction has been appreciated as a very sensitive indicator of brain pathology. As such, the testing of olfactory performance has become clinical routine, though the lack of specificity sets limits to its differential diagnostic potential. For this purpose, research on structural and functional changes aims to gain insight into specific features of olfactory dysfunction associated with different diseases, which in turn may promote the understanding of underlying mechanisms of the disease itself. In this lecture, the focus will be laid on the behavioral and neuroimaging investigation of emotional-limbic processes in psychiatric states using olfactory stimuli. Due to its anatomical overlap, odours bear great advantage for studying emotional disturbances, which represent a hallmark of many psychiatric diseases, such as depression, schizophrenia, and autism. In a more practical part of this lecture, the olfactory profiles of different diseases are characterized and discussed for their diagnostic relevance.

[Nancy Rawson](#), Ph.D.

### **Olfactory cell biology in health and disease: methods and models.**

This lecture will cover the molecular and functional characteristics of olfactory receptor cells, provide insight into their developmental and cellular origins, present methods for assessing their function ex vivo and in vitro, and discuss how olfactory epithelial biopsies are becoming a tool for regenerative medicine. We will also examine signaling and regulatory pathways that may be impacted by medications, diseases and genetic disorders to assist the student in understanding how these factors may contribute to olfactory dysfunction.

[Philippe Rombaux](#), M.D.

### **Structural MR imaging**

The olfactory bulb (OB) is the first relay where olfactory information is processed, playing a key role in the human olfactory function. Recently, it has been shown that the volume of the OB changes as a function of olfactory performances and training; therefore, MRI-based volumetric measurements of the OB have received much interest in clinical setting and in research. We will review the way to explore chemosensory function through structural neuroimaging techniques, the modification of the OB in different clinical situations, the

demonstration of the OB plasticity (after training, after olfaction recovery or in non sighted subjects) and the putative role of the olfactory ventricle.

[Martin Witt](#) , M.D.

### **Morphology of Human Olfaction**

Part 1. Histology of olfactory epithelium

You will be given a short introduction of common (immuno)histological techniques and a guide how to read a histological specimen. Subsequently you will be able to examine some slides showing mouse and human olfactory and vomeronasal epithelium.

Part 2. Gross Anatomy of the Human Nasal Cavity and the Human Brain

This is intended as an introduction into olfaction-related structures in the anatomical dissection room.

[Sylvain Lacroix](#) , M.D., Ph.D.

### **Neurogenic inflammation of the nasal mucosa and olfaction impairment**

The nose is an air conditioner and is involved in the protection of the lower airways against inhalation of exogenous particles and airborne irritants. The nasal mucosa is therefore densely innervated by sensory nerves containing several neuropeptides. In the airways, activation of sensory C and A delta fibres leads to the release of multiple neuropeptides. In addition to their involvement in vasodilatation and nasal airway obstruction, plasma protein exudation and mucus secretion, sensory neuropeptides also participate in inflammatory cell recruitment. This neurogenic inflammation contributes to the intensity of nasal blockage and subsequent olfaction disorders, rhinorrhea, and headaches, the most common symptoms in chronic rhinosinusitis. The concentration of pro-inflammatory sensory neuropeptides is increased in the nasal mucosa of patients suffering from chronic rhinosinusitis. In contrast, the activity of the enzymes involved in the degradation of these sensory neuropeptides is markedly reduced. These observations should contribute to a better understanding of the pathophysiological mechanisms of one of the most frequent chronic inflammatory diseases.

[Sidney Simon](#), Ph.D.

### **A Sense of Taste**

The process of eating has many components. These include anticipation and expectation, the physical act of putting food in one's mouth, the ensuing multimodal sensation, the decision to ingest, its post-ingestive response and finally when to stop eating. In my talk each of these components will be covered.

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## **Demonstrations on Sunday afternoon**

### **Olfactory neuroanatomy on the basis of MR scans**

Hagen Kitzler, M.D.

### **Volumetric assessment of the olfactory bulb**

Nicole Reither

### **A quick demonstration of FMRI**

Cornelia Hummel, M.D.

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## **Demonstrations on Monday and Tuesday**

### **Assessment of nasal airflow and stimulus activated changes of nasal blood flow**

Silvain Lacroix, M.D.

When contemplating olfactory problems and questions, one has to bear in mind that not only cells are busy picking up olfactory cues using molecules dispersed in our environment, but that a whole organ is designed to that task besides helping with respiration: the nose. When the problem of olfactory loss is encountered, a thorough examination of the nose is necessary. During this demonstration, the nose will receive a closer look using rigid and flexible endoscopy technique. Special attention will be paid to the appearance of the vomeronasal duct, as well as to the nasoplatine duct. Major reasons of olfactory loss due to alterations of nasal conditions will be demonstrated. Attendants will have the chance to practise endoscopy to have a look at cavity that hosts the sensory system they deal with during this Summer School.

This course will also provide an introduction of the current nasal function measurement techniques. The methods presented will be: anterior rhinomanometry, acoustic rhinometry, and Laser Doppler Flowmetry. The techniques will be discussed and a practical demonstration will be given.

### **Evoked potential olfactometry**

Emilia Iannilli, Ph.D.

During this summerschool an introduction to olfactometry and gustometry will be given. This will consist of both, a more theoretical introduction to this area of research, and a hands-on, practical approach.

### **Psychophysical techniques for the assessment of chemosensory functions**

Thomas Hummel, M.D.

### **Recordings from the mucosa**

Simona Negoias, M.D.



During the practical demonstrations it will be shown how electrodes for recordings of electro-olfactograms or negative mucosal potentials are prepared, flows are adjusted, temperatures measured, humidity is controlled, and odor concentrations are assessed.

### **Assessment of the tongue surface**

Tino Just, M.D.

Using the latest techniques Tino Just will show various approaches to the morphology of the tongue surface.

### **Biospies, nasal endoscopy**

**Volker Gudziol, M.D.**

Starting from known neuroanatomic correlates of olfaction, functional imaging methods will be introduced. The most widely used functional imaging method being MRI, we will concentrate on this modality. We will look at all steps of a fMRI-study, beginning with the methodological background, passing by the study-design, to finally interpret the results of the complex data analysis procedures. Besides the great advantage of good anatomical resolution, fMRI has a rather poor temporal resolution. Possible remedies for this problem will be discussed.



## **Registration**

Conference fees can be paid either in cash or by credit card or by money transfer. To pay by credit card please email the following information to [Thomas Hummel](#)

### **Credit Card** payment:

- Last name, first name (as written on card)
- Card Type (VISA or MASTERCARD)
- Credit card number
- Expiration date
- Conference fee
- Email for possible inquiry

### **Money transfer** - please send the money to the following account:

Within Germany:

Carl Gustav Carus Management GmbH, Fetscherstr. 74, 01307 Dresden, Germany  
Important: Please indicate as purpose of the payment "SUMMERSCHOOL" plus your name  
Bank: Deutsche Kreditbank AG  
BLZ: 120 300 00  
Account number: 11 248 333

From outside of Germany:

Receiver: Carl Gustav Carus Management GmbH, Fetscherstr. 74, 01307 Dresden,  
Germany

Important: Please indicate as purpose of the payment "SUMMERSCHOOL" plus your  
name

IBAN: DE 71 1203 0000 0011 248 333

BIC: BYLADEM 1001

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## Timetable



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Who participates in what course?

Mon, 25th		Tue, 26th		Wed, 27th		Thurs, 28th	
course A	<i>course B</i>	course A	<i>course B</i>	course A	<i>course B</i>	course A	<i>course B</i>
Al-Ain	<i>Parma</i>	Al-Ain	<i>Parma</i>	Al-Ain	<i>Parma</i>	Al-Ain	<i>Parma</i>
Beauchamp	<i>Raemakers</i>	Beauchamp	<i>Raemakers</i>	Beauchamp	<i>Raemakers</i>	Beauchamp	<i>Raemakers</i>
Chamberlain	<i>Reichelt</i>	Chamberlain	<i>Reichelt</i>	Chamberlain	<i>Reichelt</i>	Chamberlain	<i>Reichelt</i>
Crisinel	<i>Schrivver</i>	Crisinel	<i>Schrivver</i>	Crisinel	<i>Schrivver</i>	Crisinel	<i>Schrivver</i>
de Gois	<i>Seppa</i>	de Gois	<i>Seppa</i>	de Gois	<i>Seppa</i>	de Gois	<i>Seppa</i>
Dohara	<i>Sinding</i>	Dohara	<i>Sinding</i>	Dohara	<i>Sinding</i>	Dohara	<i>Sinding</i>
Dubach	<i>Spetter</i>	Dubach	<i>Spetter</i>	Dubach	<i>Spetter</i>	Dubach	<i>Spetter</i>
Fioretti	<i>Takahashi</i>	Fioretti	<i>Takahashi</i>	Fioretti	<i>Takahashi</i>	Fioretti	<i>Takahashi</i>
Gebhardt	<i>Thomsen</i>	Gebhardt	<i>Thomsen</i>	Gebhardt	<i>Thomsen</i>	Gebhardt	<i>Thomsen</i>
Gregory	<i>Triantis</i>	Gregory	<i>Triantis</i>	Gregory	<i>Triantis</i>	Gregory	<i>Triantis</i>
Guo Yichen	<i>van den Bosch</i>	Guo Yichen	<i>van den Bosch</i>	Guo Yichen	<i>van den Bosch</i>	Guo Yichen	<i>van den Bosch</i>
Kärnekull	<i>Van Hartevelt</i>	Kärnekull	<i>Van Hartevelt</i>	Kärnekull	<i>Van Hartevelt</i>	Kärnekull	<i>Van Hartevelt</i>
Karstensen	<i>Vivian He</i>	Karstensen	<i>Vivian He</i>	Karstensen	<i>Vivian He</i>	Karstensen	<i>Vivian He</i>
Koppel	<i>Wagner</i>	Koppel	<i>Wagner</i>	Koppel	<i>Wagner</i>	Koppel	<i>Wagner</i>
Ling	<i>Weiss</i>	Ling	<i>Weiss</i>	Ling	<i>Weiss</i>	Ling	<i>Weiss</i>
Maboshe	<i>Widen</i>	Maboshe	<i>Widen</i>	Maboshe	<i>Widen</i>	Maboshe	<i>Widen</i>

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## Monday morning presentations

## Program Monday morning - Session 1

09:00	Thomas Hummel	Welcome / Introduction of Lecturers				
	chair: Steven Nordin					
09:15	Kristen Gregory	Crossmodal Semantic Priming				
09:21	Tali Weiss	Olfactory White				
09:27	Charlotte Sinding	Perception of odour mixtures: behavioural, psychophysical and				
09:33	Maiken Thomsen	Perceptual interactions and cheese aroma				
09:39	Anne-Sylvie Crisinel	The sound of lemon: crossmodal associations between odours				
09:45	Jonathan Beauchamp	Intra-nasal odour characterisation and human physiological eff				
09:51	Helene Karstensen	Isolated congenital anosmia in the Faroe Islands				
09:57	Patrick Dubach	Olfactory Cleft Disease				
10:03	Niculina Gebhardt	At which timepoint to test posttraumatic olfactory disorders?"				
10:09	Neelima Gupta	assessment of olfaction using the i-smell test in the Indian pou				
10:15	Laila Seppa	Domestic Apples: sensory profiles and consumer responses				
10:21	Kadri Koppel	Flavor and acceptance of pomegranate juice".				
10:27	Ewmma Chamberlain	Understanding Perception of Malodour and Fragrance in the Li				
10:33	Claire triantis	Understanding Perception of Malodour and Fragrance in the Li				
10:39	Iris van den Bosch	Me and my PhD: Neurobiological mechanisms behind changes				
10:45	break					

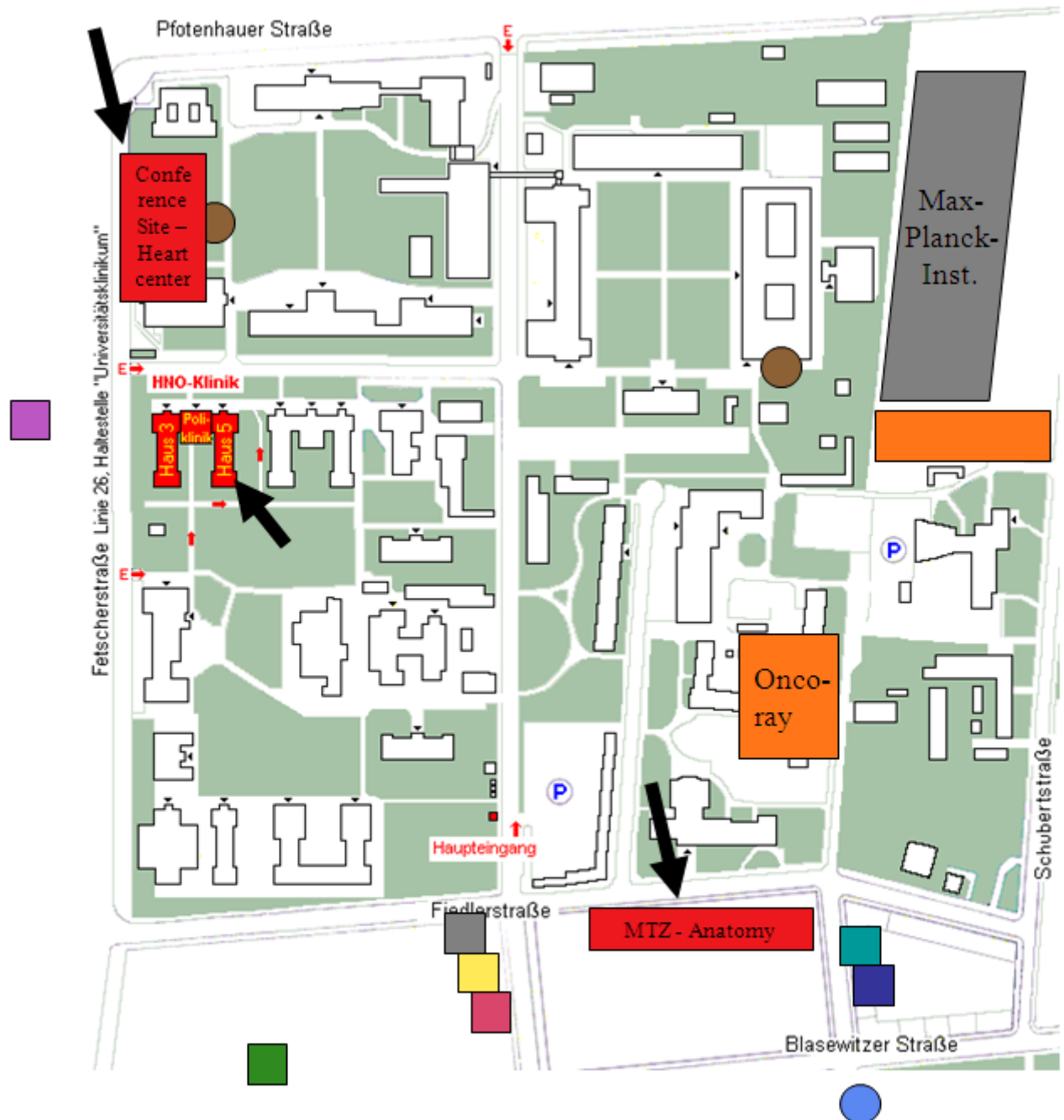


## Program Monday morning - Session 2

	chair: Maria Larsson				
11:00	Stina Kärnekull	Long-term olfactory recognition memory			
11:06	Sandra Wagner	Infant and food odours			
11:12	Syrina Al-Ain	Maternal odours involved in the suckling success in newborn mice			
11:18	Maria de Gois	Sensorial Processing of the Newborn - Exploratory Studies			
11:24	Alessandra Fioretti	Olfactory deficit and hippocampal volume loss in early Alzheimer's disease			
11:30	Tim van Hartevelt	Olfactory dysfunction in Parkinson's Disease, an MEG study			
11:36	Valentina Parma	Olfactory performance in neurological populations			
11:42	Katharina Reichelt	Identification of taste active and taste modulating compounds			
11:48	Valentin Schriver	Modulation of Olfactory Receptor Neuron Responses			
11:54	Vivian He	psychological and psychobiological measurement of aroma intensity			
12:00	Waku Maboshe	Temporal processing of Chemosensory stimuli			
12:06	Kaori Takahashi	The effect of cooling / warming chemicals to human			
12:12	Testuya Dohara	TRPM8 and TRPA1 mediate the key somatosensory qualities of menthol			
12:18	Helene Widen	Gas chromatography - olfactometry			
12:24	Maartje Spetter	Neuroimaging of satiation			
12:30	Marielle Raemakers	Odours: appetitive or satiating			

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# Site map of the Clinic area



- Italian restaurant
- Greek restaurant
- Chinese eatery
- Bakery
- Vegetables

- Supermarket
- Grocery

- Cafeteria
- Mensa

→ "HNO Klinik" = Dept. of ORL  
 Conference sites („Herzzentrum“, „MTZ“, „HNO-Klinik“)



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## How to get to the guesthouse at Gutenbergstrasse 6, 01307 Dresden, Germany ?

[For a map click here](#)

### **from main station**

- Take the tram 3 until Pirnaischer Platz
- Take the bus line 62 direction Johannstadt until stop Gutenbergstrasse
- Taxi from the main station to the guesthouse is approximately 12 Euro

### **from airport**

- Take the train from the airport to the station "Dresden Neustadt"
- There you take the tram 6 until stop "St.- Benno- Gymnasium"
- Take the bus line 62 direction Johannstadt until stop Gutenbergstrasse
- Taxi from the airport to the guesthouse is approximately 18 Euro

### **by car and from motorway A4**

- Leave at junction Dresden-Altstadt
- Turn right in direction of the center (Zentrum)
- Head straight forward until the next big crossroad
- Follow the main street by turning halfleft
- Go straight on at the next crossroad for about 500m
- Turn halfleft into the Bremer street
- Now always follow the main street and pass the congress centre and the famous Terrassenufer with the steamers
- After passing the Terrassenufer turn right at the next crossroad
- After about 600m, you turn right again into Pfeiffenhannsstrasse
- After about 250 m turn left again into Pfotenhauerstrasse
- After another 300 m turn left again into Gutenbergstrasse
- Find the Sächsische Bildungsgesellschaft (the dormitory) after 150 m on the right

Eva		
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**The following people participated in our previous Summerschool in 2005**

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Julia Vent: <a href="mailto:julia.vent(at)uk-koeln.de">julia.vent(at)uk-koeln.de</a>	Germany
Helene Hausner: <a href="mailto:hlh(at)life.ku.dk">hlh(at)life.ku.dk</a>	Denmerk
Dirk Adolph: <a href="mailto:dirk.adolph(at)uni-duesseldorf.de">dirk.adolph(at)uni-duesseldorf.de</a>	Germany
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[Evaluation, and addresses of participants from previous Schools](http://www.tu-dresden.de/medkhno/riechen_schmecken/summerschool_05_plus.htm) can be found at [http://www.tu-dresden.de/medkhno/riechen\\_schmecken/summerschool\\_05\\_plus.htm](http://www.tu-dresden.de/medkhno/riechen_schmecken/summerschool_05_plus.htm)

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