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Summerschool 2019

This Summerschool is supported by: 

This project is part of TU Dresden's Institutional Strategy, funded by the "Excellence initiative of the German Federal and State Governments".



SONY

We also would like to thank SONY Europe B.V. for their support.

We would like to thank  **burghardt Messtechnik**  for their support.

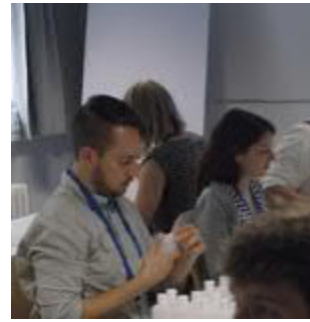
SUMMER SCHOOL on HUMAN OLFACTION

July 28th to August 2nd, of 2019 in Dresden, Germany.

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

Pictures





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 start at the lecture hall/vicinity ("Hörsaal") of house number 19 at the area of the University Clinic Dresden, House number 21, and later continue at the Department of Otorhinolaryngology (house number 5).

Fee for participation is 330 Euro ([for details please click here](#)). Participants with an industrial background pay 1000 Euro. This fee covers conference dinner at [Schloss Eckberg](#), a barbecue, and an excursion to the surroundings of Dresden. **The number of applicants will be limited to 32.**

Sunday afternoon (28th of July) there will also be a chance to join a **guided city tour** through Dresden (it is free). It starts at 12.30 at the [guesthouse](#) at Gutenbergstrasse 6, 01307 Dresden. The tour proper begins at 1.30 p.m. at the Martin-Luther statue in front of the [Frauenkirche](#) (Neumarkt, 01067 Dresden).

It will end at University Clinic, Department of Neuroradiology, Haus 5, ground floor, MRI.

Also, Sunday afternoon, between 3.30 and 6.30 p.m. you have a chance to visit the University Clinic, Department of Neuroradiology, Haus 4, ground floor, MRI, to join us in order to **get structural images** of your brain/olfactory bulb (this is also free).

Wednesday excursion: bus leaves at 2 p.m. sharp in front of the MTZ building at the Fiedlerstrasse (where the WITT/RAWSON course takes place).

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

The meeting will start with short 3-min presentations from every participant plus 1-2 min time for questions. Please focus your presentations on your research! Prior to the meeting, please send 1-3 powerpoint slides of your presentation to [✉ Thomas Hummel](mailto:Thomas.Hummel).

For housing please contact Mrs. Dietzel, phone +49-351-4445-60 or [✉ empfang@sbgdd.de](mailto:empfang@sbgdd.de).

We booked rooms for participants at a [🌐 guesthouse](#) (Sächsische Bildungsgesellschaft für Umweltschutz und Chemieberufe Dresden mbH, Gutenbergstraße 6, 01307 Dresden) very close to the Clinic, 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 June 2019**.

Continuing medical education: Participation in all aspects of the meeting will get you 45 points



(Category C).

Please contact [Thomas Hummel](mailto:Thomas.Hummel) for details.

Timetable

	Sun, 28th	Mon, 29th course A	course B	Tue, 30th course A	course B	Wed, 31st course A	course B	Thurs, 1st course A	course B	Fri, 2nd course A	course B	
4:30-7:00												4:30-7:00
8:00-8:30		registration		Laska	lacroix	Schaal	witt	margot	Fjældstad			8:00-8:30
8:30-9:00		presentations in House 19					rawson			Landis	Croy	8:30-9:00
9:00-9:30		participants (35/4 min)					ANA		Hummel			9:00-9:30
9:30-10:00				drinks, snacks						Hähner		9:30-10:00
10:00-10:30		drinks, snacks		drinks, snacks	larsson			drinks, snacks		drinks, snacks		10:00-10:30
10:30-11:00		LH						Frasnelli	drinks, snack	Hähner		10:30-11:00
11:00-11:30				Rawson			witt		Georgsdorf	Landis		11:00-11:30
11:30-12:00							rawson	Schaal		Croy		11:30-12:00
12:00-12:30							ANA		Fjældstad			12:00-12:30
12:30-13:00	guided tour									final words		12:30-13:00
13:00-13:30	through											13:00-13:30
13:30-14:00	historical	Majid	Laska	Nordin	Majid							13:30-14:00
14:00-14:30	Dresden					excursion to the						14:00-14:30
14:30-15:00				Sinding		Saxonian		Hummel	Frasnelli			14:30-15:00
15:00-15:30		drinks, snacks				Switzerland						15:00-15:30
15:30-16:00	MR scans	larsson		drinks, snack	Nordin							15:30-16:00
16:00-16:30	at Haus 4		drinks, snack	lacroix		bus leaves in		drinks, snacks				16:00-16:30
16:30-17:00	Witt					front of						16:30-17:00
17:00-17:30	Fjældstad		Rawson		Sinding	the MTZ building		Georgsdorf	margot			17:00-17:30
17:30-18:00						(where the anatomy course is)						17:30-18:00
18:00-18:30			Gudziol	Mahmut		Gudziol						18:00-18:30
18:30-19:00		Zeng Chen, Yoshiko		Zeng Chen, Yoshiko		at 14-15 airport						18:30-19:00
19:00-19:30	welcome BBQ at the dorm in	Landis	Yoshi, Frasnelli	Landis	Yoshi, Frasnelli	there will be drinks and a lunch bag on the bus		dinner at				19:00-19:30
19:30-20:00	Gutenbergstr. 6							Schloss				19:30-20:00
20:00-20:30				dinner for				Eckberg				20:00-20:30
20:30-21:00				lecturers								20:30-21:00
21:00-21:30												21:00-21:30
21:30-22:00								please get there by taxi				21:30-22:00
22:00-22:30												22:00-22:30
22:30-23:00												22:30-23:00
23:00-23:30												23:00-23:30

Gudziol - Biopsies, endoscopy	
Frasnelli, Yoshi - olfactory tests, trigeminal	
Löber, Koruse, Zimmeck - EEG / NMP	
Mahmut - questionnaires, ratings, scales	
Zeng, Chen, Yoshino - taste test, retronasal	
Landis - nasal airflow	

Download

Lecturers

The following **lecturers** will participate (needs to be confirmed):

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

Matthias Laska (Linköping, Sweden) - chemosensory discrimination

[🌐 Steven Nordin](#) (Umea, Sweden) - Chemosensory psychophysics

✉ [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](#) (Philadelphia, PA, USA) - Olfactory cell biology in health and disease: methods and models

🌐 [Martin Witt](#) (Rostock, Germany) - morphology of human olfaction

Basile Landis (Geneva, Switzerland)

Benoist Schaal (Dijon, France) - chemosensory development

Charlotte Sinding (Dijon, France) – odor mixtures

Antje Hähner (Dresden, Germany) - neurodegeneration

Johannes Frasnelli (Quebec, Canada) - trigeminal function

Arnaud Frounel (Lyon, France) - functional imaging of chemosensory function

Alexander Fjaeldstad (Aarhus, Denmark) - the olfactory fingerprint

✉ [Wolfgang Georgsdorf](#) (Berlin, Germany) - large-scale olfactory stimulation - the SMELLER

Asifa Majid (Nijmegen, The Netherlands) - olfactory language

lecturers from Dresden will include:

[Thomas Hummel](#) - evoked potential olfactometry, recordings from the mucosa

[Antje Hähner](#) - olfaction in Parkinsonian syndromes

Ilona Croy – olfaction and depression

Valentin Schriever – olfaction in childhood

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).

Contact

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

Smell and Taste Clinic, Department of Otorhinolaryngology

University of Dresden Medical School

Fetscherstr. 74 , 01307 Dresden, Germany

phone +49-351-458-4189 or -3197

mobile +49-1629-566-056

fax +49-351-458-7370

<http://www.uniklinikum-dresden.de/hno/riechen>

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.

Steven Nordin , Ph.D.

Chemosensory Psychophysics

The lecture will include topics like:

Olfactory detection & discrimination: Method of limits, Method of constant stimuli, Weber's law, Theory of signal detection, Multidimensional scaling

Scaling of odorous stimuli: Line and number scales, Category scales, Stevens' power law, Direct scaling, Combining MCS & direct scaling

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 adaption, 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.

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.

Martin Witt , M.D.

Morphology of Human Olfaction

Part 1. Introduction into “morphology of chemosensation”

You will be given a short introduction of what is known about structure/function relationship in vertebrate olfaction and taste at both macroscopic and microscopic levels.

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

In the anatomical dissection room you will be confronted with some organs and tissues such as a real human brain and a dissected head, in which we will demonstrate the olfaction- and taste-related structures.

Silvain 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.

Antje Hähner

OLFACTORY DYSFUNCTION IN NEURODEGENERATIVE DISORDERS

Impairment of olfaction is a characteristic feature of many neurodegenerative diseases. This lecture summarizes the available information about olfactory function in distinct neurodegenerative conditions and possible therapeutic strategies. It indicates the advantageous use of olfactory testing as a contribution to early and differential diagnosis in Parkinson's disease and Alzheimer's dementia. Deficits in the sense of smell may precede clinical motor and cognitive symptoms by years and might be helpful in assessing the risk for developing these diseases in otherwise asymptomatic individuals. Numerous studies suggest that olfactory disturbances in Parkinson's disease may have diagnostic utility for the differentiation from other movement disorders.

Thomas Hummel, M.D. and Basile Landis, M.D.

Olfactory and gustatory disorders

The chemical senses gustation and of olfaction are important not only for the detection of potential dangers such as fire or spoiled food, but also for the quality of life of human beings. In this article, we review the characteristics of the sense of smell and give a short overview about possible olfactory dysfunctions and their therapy.

Charlotte Sinding, Ph.D.

Odour and Flavour objects

Odours result from the integration by our olfactory sense of a complex mixture of odorants. The lecture will cover the different levels of odour perception from the receptor to the “odour object” integration. Flavours result from the integration of odour objects, taste, trigeminal, visual, and auditory stimulations

released during food consumption. Flavour is our mental representation of food. The final part of the lecture will present the theory about flavour perception and integration.

Demonstrations on Sunday afternoon

Olfactory neuroanatomy on the basis of MR scans

TBD

Volumetric assessment of the olfactory bulb

Antje Hähner, M.D.

Demonstrations on Monday and Tuesday

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

Basile Landis, 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

TBD

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

Valentin Schriever, M.D.

Assessing olfactory and trigeminal function is a key aspect not only in a clinical context but also in olfactory research. During the course different smell-tests will be demonstrated. The focus will be on the Sniffin Sticks test battery with its subtest for evaluating olfactory threshold, odor discrimination and odor identification, which can be experienced in this hands-on course. In addition two methods for assessing intranasal trigeminal function will be demonstrated.



Recordings from the olfactory epithelium

TBD

Electro-olfactogram (EOG) are local-field potentials generated in the olfactory epithelium in response to an olfactory stimulus providing neural information from the peripheral olfactory level. EOGs are commonly characterized by the response amplitude that is a negative peak denoted by N1 and by the response latency that relates to the time point of the amplitude (L1). During the practical course, it will be shown how to (i) prepare electrodes for recordings; (ii)

localize the EOG recording site; (iii) administer odorous stimuli; (iv) visualize EOGs responses to odorants.

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.

Event-related potential olfactometry and gustometry

TBD

EEG (Electroencephalography) is an electrophysiological method to record electrical activity of the brain, with a high temporal resolution. The brain processing of chemosensory perceptions could be measured and studied by the delivery of odors or taste solutions using olfactometers or gustometers. This practical course comprises the introduction to the principles of olfactometry and gustometry, demonstration of odor/taste stimulation and recording of event-related brain waves, and the time-frequency analytical method for olfactory EEG results. Specific applications of these measurements will also be discussed.

Registration

The Summerschool is fully booked - but maybe you are interested in our course on September 27/28 ([Link](#)).

Conference fees can only be paid in advance either 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_2019" 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_2019" plus your name

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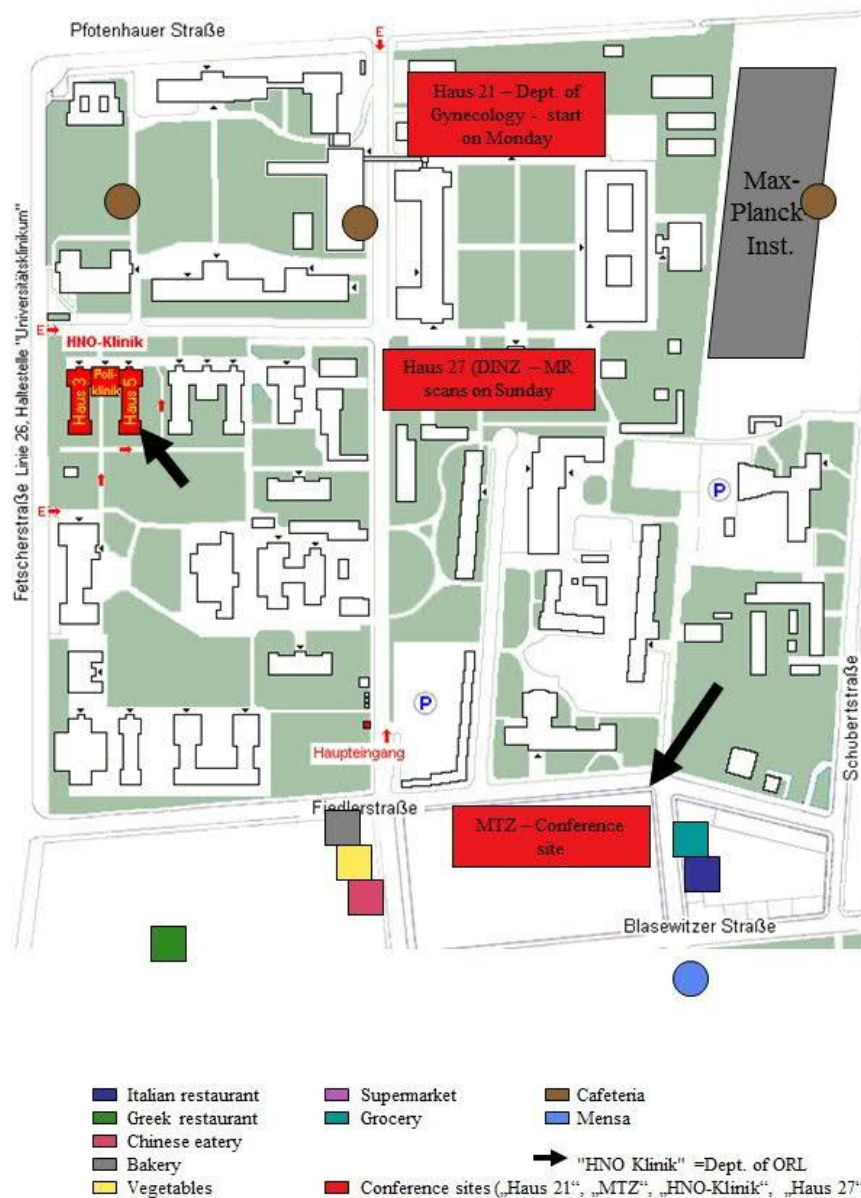
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Carus Management GmbH is responsible for the contractual and financial settlement of this event. According to the guidelines of the (Model) Professional Code for Physicians in Germany (MBO) § 32 (3), FSA Code of Conduct § 20 (5) and AKG Code of Conduct § 19 (5), organizers are obligated to disclose the financial support: Burghart Messtechnik GmbH - 2.000 Euro, Sony Europe B.V. - Zweigniederlassung Deutschland - 3.000 Euro (as of the 25th of July 2019).

Any acquired data are only used for the organization of this conference.
 Flyer: Status at the time of publication.

Sitemap of the clinic area

Site map of the Clinic area



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

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 (entrum)
- > Head straight forward until the next big crossroad
- > Go straight on at the next crossroad for about 500m
- > Turn half left 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 Pfothenhauerstrasse
- > After another 300 m turn left again into Gutenbergstrasse
- > Find the Sächsische Bildungsgesellschaft (the dormitory) after 150 m on the right

Previous participants

The following people participated in our previous Summerschool in 2019

Anna Blomkvist	anna.blomkvist (at) psychology.su.se
Marta Zakrzewska	marta.zakrzewska (at) psychology.su.se
Mirjam van den Brink	M.vandenBrink-9 (at) prinsesmaximacentrum.nl
Benoit Jobin	benoit.jobin (at) umontreal.ca
Ayaho Yoshino	yoshinoayaho (at) nms.ac.jp
Giorgia Sollai	gsollai (at) unica.it
Christopher Aveline	Christopher.Aveline (at) inra.fr
Maria Trinidad Herrero Ezquerro	mtherrer (at) um.es
Sara Invitto	sara.invitto (at) unisalento.it
Mai Wang	gilles.feron (at) inra.fr
Élodie Azema	contact (at) thesmellandtastelab.com
Zahal Rayane	rayane.zahal (at) umontreal.ca
Victoria Van Regemorter	victoria.vanregemorter (at) uclouvain.be

Marion Renaud	marion.renaud (at) chru-strasbourg.fr
Megan Nicole Williams	megawill8787 (at) gmail.com
Bodo Mrozek	mrozek (at) zzf-potsdam.de
Ben Young	psychosyntax (at) gmail.com
Rebeca Corona	rebecgc (at) gmail.com
Alexander Freemantle	alexander.freemantle (at) port.ac.uk
Eri Mori	sekieri0421 (at) gmail.com
Rumi Sekine	lc.4fun.rlx (at) gmail.com
Marylou Mantel	marylou.mantel (at) ens-lyon.fr
Lucile Rey	lucile.rey (at) inserm.fr
Evelina Thunell	evelina.thunell (at) ki.se
Tobias Blum	tobias.blum (at) hhu.de
Steve Pawlizak	Steve.Pawlizak (at) sony.com
Caroline Girod	caroline.girod (at) iff.com
Matjaz Pirc	matjaz.pirc (at) wur.nl
Rachel Hagan	R.Hagan (at) ljmu.ac.uk, rachelhagan84 (at) icloud.com
Giorgia Guarneri	giorgia.guarneri (at) sissa.it
Joana Grave	joanagrave (at) ua.pt
Isabella Zsoldos	isabella.zsoldos (at) inra.fr
Maria Sokotushchenko	maria.sokotushchenko (at) ivv.fraunhofer.de
Ben Chen	benchenpielo (at) gmail.com
Yunoeng Zang	yunpengzang23 (at) gmail.com
Akshita Yoshi	joshiakshita93 (at) gmail.com
Mem Mahmut	mem.mahmut (at) mq.edu.au
Zou laiquan	zoulq (at) smu.edu.cn

The following people participated in our previous Summerschool in 2017

Anne	Abriat	atanne (at) gmail.com
Alican	Akaslan	hazanbasak (at) hotmail.com
Karolina	Bende	karolina.bende (at) vregion.se
Mara Adelaida	Bock	mabockp777 (at) gmail.com
Xinlu	Cai	caixinlu0219 (at) 163.com
Cincia	Cecchetto	cinzia.cecchet (at) gmail.com

Shirley	Cheung	shirleycheung (at) ent.cuhk.edu.hk
Agnieszka	Dabrowska Leszczynska	Agnieszka.Dabrowska-Leszczynska (at) unil.ch
Rachelle	de Vries	rachelle.devries (at) wur.nl
Eren	Erdem	erd2eren (at) yahoo.com
Vanda	Faria	vanda.faria (at) psyk.uu.se
Robin	Fondberg	robin.fondberg (at) ki.se
Amanda	Godbehere	Amanda.Godbehere (at) unilever.com
Agata	Groyecka	agata.groyecka (at) gmail.com
Marion	Guilloux	mguilloux (at) diana-petfood.com
Christine	Hucke	Hucke (at) ifado.de
Christine	Kelly	chriskelly151 (at) gmail.com
Erna	Krusemann	erna.krusemann (at) rivm.nl
Fanny	Lecuyer	fanny.lecuyer.giguere (at) gmail.com
Yoshida	Manatsu	muratay (at) Kochi-u.ac.jp
Carla	Marsala	cmasala (at) unica.it
Violeta	Melinte	violeta_plesa (at) yahoo.com
Paulina	Morquecho	paulina.morquechocampos (at) wur.nl
Yoriko	Murata	muratay (at) Kochi-u.ac.jp
Franziska	Müschénich	fmueschenich (at) ukaachen.de
Geneviève	Nuckle	Genevieve.Nuckle (at) uqtr.ca
Fumino	Okutani	okutanif (at) Kochi-u.ac.jp
Ashley	Pascarella	pascarella.ap.1 (at) pg.com
Michael	Philip	philip.michael (at) me.com
Elbrich	Postma	elbrich.postma (at) wur.nl
Rea	Rodriguez-Raecke	rrodriguez (at) ukaachen.de
Georgia	Sarolidou	georgia.sarolidou (at) ki.se
Akyıldız	Secil	drsecilakyildiz (at) gmail.com
Tom	Somers	tom.somers (at) symrise.com
Alina	Timurzieva	alinko9977z (at) mail.ru
Eleonora	Trecca	eleonoramc.trecca (at) gmail.com
Maria	Yabur	m.beatrizyabur (at) fulbrightmail.org
Han-yu	Zhou	zhouhy (at) psych.ac.cn

The following people participated in our previous Summerschool in 2015

Bywalez	Wolfgang	Wolfgang.Bywalez (at) biologie.uni-regensburg.de
Chotechuang	Nattida	nattida.c.net (at) gmail.com
Cook	Stephanie	S.Cook2 (at) liverpool.ac.uk
Croijmans	Ilja	i.croijmans (at) let.ru.nl
de Valk	Josje	j.devalk (at) let.ru.nl
Egger	Veronika	Veronica.Egger (at) ur.de
Fjældstad	Alexander	medicdkmail (at) gmail.com
Fronczak	Piotr	p.fronczak (at) ifps.org.pl
Georgiopoulos	Charalampos	Charalampos.Georgiopoulos (at) regionostergotland.se
Goudet	Camille	camille.goudet (at) u-bourgogne.fr
Hauschild	Anne	Anne.Hauschild (at) effem.com
Kamelger	Petra	petra.kamelger (at) psychologie.uni-freiburg.de
Kato	Naoki	naoki.kato (at) asahibeer.co.jp
Langdon	Cristobal	CLANGDON (at) clinic.ub.es
Leclerc	Emilie	e.leclerc (at) diana-petfood.com
Lukas	Michael	michael.lukas (at) ur.de
Maier	Ayline	Ayline.Maier (at) ukb.uni-bonn.de
Marxer-Tobler	Emma	marxertobler (at) eth.mpg.de
Minwegen	Friederike	Friederike.Minwegen (at) ruhr-uni-bochum.de
Otte	Martin	martin.otte (at) uk-koeln.de
Parker	Mango	mango.parker (at) awri.com.au
Peter	Moa	moapeter (at) gmail.com
Poletti	Sophia	sophia.poletti (at) usz.ch
Porada	Danja	danja.porada (at) ki.se
Poupon	Daphne	daphnee.poupon_pourchot (at) ens-lyon.fr
Reichert	Johanna	johanna.reichert (at) uni-graz.at
Sandberg	Petra	petra.sandberg (at) umu.se
Shiori	Nakano	shionaka (at) human.tsukuba.ac.jp
Sulich,	Agnieszka	a.sulich (at) ifps.org.pl
Tremblay	Cecilia	Cecilia.Tremblay (at) uqtr.ca
Ahn	Jin	ahjin94 (at) naver.com

The following people participated in our previous Summerschool in 2013

Bratt	Mette	Mette.Bratt(at)stolav.no
Brünner	Yvonne	ybruenner(at)ukaachen.de
de Groot	Jasper	J.H.B.deGroot(at)uu.nl
Denzer	Melanie	melanie.denzer(at)fau.de
Dollion	Nicolas	dollionnicolas(at)gmail.com
Fallon	Nick	N.B.Fallon(at)liverpool.ac.uk
Fjaeldstad	Alexander	medicdkmail(at)gmail.com
Gurria	Gabreila	gg7(at)sanger.ac.uk
Heenan	Samuel	samuel.heenan(at)wur.nl
Hsieh	Julien	hsiehjulien(at)gmail.com
Ijpma	Irene	i.ijpma(at)umcg.nl
Käppler	Kathrin	kathrin.kaeppler(at)leuphana.de
Kollndorfer	Kathrin	kathrin.kollndorfer(at)meduniwien.ac.at
Lerut	Bob	boblerut(at)gmail.com
Loos	Helene	helene.loos(at)ivv.fraunhofer.de
Magee	Kristopher	k.magee(at)bristol.ac.uk
McKinney	Diana	Diana.L.McKinney(at)altria.com
Meister	Lukas	Lukas.Meister(at)uni-duesseldorf.de
Niman	Andrea	andrea.niman(at)psychology.su.se
Pacharra	Marlene	pacharra(at)ifado.de
Regenbogen	Christina	cregenbogen(at)ukaachen.de
Schneider	Desiree	desiree.Schneider(at)hs-fulda.de
Schulze	Paqtrick	pschulze(at)ipa-dguv.de
Seow	Yi Xin	seowyx(at)nus.edu.sg
Storch	Dunja	dunja.storch(at)uni-duesseldorf.de
Sugijama	Haruko	sugiyama.haruko(at)kao.co.jp
Veithen	Alex	ave(at)chemcom.be
Villavicencio	Miguel	mvillavicencio(at)cinvestav.mx
Waro	Bjorg Johanne	bjorg.waro(at)ntnu.no
Wehling	Eike	Eike.Wehling(at)psybp.uib.no
Wudarczyk	Olga	owudarczyk(at)ukaachen.de
Zoon	Jet	jet.zoon(at)wur.nl

The following people participated in our previous Summerschool in 2011

Al-Ain	syrina_al-ain(at)etu.u-bourgogne.fr
Beauchamp	jonathan.beauchamp(at)ivv.fraunhofer.de
Bosch	iris.vandenbosch(at)wur.nl
Chamberlain	Emma.Chamberlain(at)unilever.com
Crisinel	anne-sylvie.crisinel(at)lincoln.ox.ac.uk
Dohara	tetsuya.dohara(at)jt.com
Dubach	Patrick.Dubach(at)insel.ch
Fioretti	bessi76(at)yahoo.it
Gebhardt	niculinagebhardt(at)hotmail.com
Gois	maria.gois(at)gmail.com
Gregory	kristenmgregory(at)gmail.com
Gupta	write2drneelima(at)yahoo.com
Hartevelt	tvanhartevelt(at)gmail.com
He	vivian6he9wei(at)gmail.com
Koppel	kadri(at)tftak.eu
Kärnekull	stina.ck(at)hotmail.com
Karstensen	hgs(at)sund.ku.dk
Maboshe	waku-maboshe(at)hotmail.co.uk
Parma	valentina.parma(at)unipd.it
Ramaekers	marielle.ramaekers(at)wur.nl
Reichelt	katharina.reichelt(at)symrise.com
Schriever	valentin.schriever(at)mac.com
Seppa	laila.seppa(at)helsinki.fi
Sinding	Charlotte.Sinding(at)dijon.inra.fr
Spetters	maartje(at)isi.uu.nl
Takashi	kaori_takahashi(at)takasago.com
Thomsen	Maiken.Thomsen(at)dijon.inra.fr
Triantis	Claire.Triantis(at)unilever.com
Wagner	Sandra.Wagner(at)dijon.inra.fr
Weiss	tali2555(at)gmail.com
Widen	helene.widen(at)sik.se

The following people participated in our previous Summerschool in 2009

Amy	Gordon	agordon(at)monell.org	USA
Caroline	Huart	caro_huart(at)hotmail.com	B
Kathrin	Hey	hey(at)ifado.de	D
Stephanie	Juran	sjuran(at)web.de	D
Dagmar	Kohutnova	dagmar.kohoutova(at)seznam.cz	CZ
Katrin	Luebke	Katrin.Luebke(at)uni-duesseldorf.de	D
Sabine	Puget	Sabine.Puget(at)dijon.inra.fr	FR
Lorenzo	Stafford	Lorenzo.Stafford(at)port.ac.uk	UK
Anna E	Voznessenskaia	annavoznessenskaia(at)gmail.com	RUS
Alice	Murray	A.K.Murray(at)liverpool.ac.uk	UK
Margareta	Hedner	margareta.hedner(at)psychology.su.se	SE
John	McGann	mcgann(at)bu.edu	USA
Alix	Seigneuric	Alix.Seigneuric(at)u-bourgogne.fr	FR
Kerstin	Burseg	Kerstin.Burseg(at)nizo.nl	NL
Nixon	Abraham	Abraham(at)ana.uni-heidelberg.de	D
Anna	Lindqvist	anna.lindqvist(at)psychology.su.se	SE
Miriam	Grushka	mgrushka(at)yahoo.com	CAN
Christos	Merkonidis	merkonidis(at)hotmail.com	UK
Dirk	Czesnik	dczesni(at)gwdg.de	D

kara	Hoover	ffkch1(at)uaf.edu	USA
Janine	Knoop	Janine.Knoop(at)nizo.nl	NL
Philippe	Jeanbourquin	Philippe.Jeanbourquin(at)pmintl.com	CH
Gaelle	Lecourt	gaelle.lecourt(at)givaudan.com	CH
Marco	Covarrubias	marco.covarrubias2(at)pepsi.com	USA
Susannah	Walker	Susannah.Walker(at)unilever.com	UK

The following people participated in our previous Summerschool in 2007

Majid	Asifa	Asifa.Majid(at)mpi.nl	The Netherlands
Lapid	Hadas	hadas.lapid(at)weizmann.ac.il	Israel
Boulkroune	Nassima	Nassima.Boulkroune(at) liverpool.ac.uk	UK
Hugi	Alain	Alain.Hugi(at)pmintl.com	Switzerland
Vent	Julia	julia.vent(at)uk-koeln.de	Germany
Hausner	Helene	hlh(at)life.ku.dk	Denmerk
Adolph	Dirk	dirk.adolph(at)uni-duesseldorf.de	Germany
Ishii	Akiko	fishii05(at)yahoo.co.jp	Japan
Tubaldi	Frederico	federico.tubaldi(at)unipd.it	Italy
Brodin	Malin	: malin.brodin(at)psyk.uu.se	Sweden
Kleemann	Anna	Anna_Maria.Kleemann(at) med.uni-muenchen.de	Germany
Seo	Han-Seok	abc6978(at)empal.com	South Korea
Lipschitz	David	David.Lipschitz(at)m.cc.utah.edu	USA
Nalini	Ayya	ayya.n(at)pg.com	UK

Joel	Suresh E	sejoel(at)gmail.com	USA
Griksiene	Ramune	ramune.griksiene(at)gf.vu.lt	Lithuania
Anderson	Linus	Linus.Andersson(at)psy.umu.se	Sweden
Lenochova	Pavlina	p.lenoska(at)seznam.cz	Czech Rep.
Kurtenbach	Stefan	Stefan.Kurtenbach(at)rub.de	Germany
Mouras	Harold	Harold.Mouras(at)pse.unige.ch	Switzerland
Kjelvik	Grete	grete.kjelvik(at)ntnu.no	Norway

The following people participated in our previous Summerschool in 2005

Joel	Mainland	mainland(at)uclink.berkeley.edu	USA
Jonas	Olofson	Jonas.Olofsson(at)psy.umu.se	Sweden
Sanne	Boesveldt	sannelovesjohan(at)yahoo.com	NL
Siobhan	O' Meara	siobhano_meara(at)yahoo.co.uk	Ireland
Erden	Asena	easena(at)med.ege.edu.tr	Turkey
Anita	Chopra	Anita.P.S.Chopra(at)unilever.com	UK
Craig	Roberts	Craig.Roberts(at)liverpool.ac.uk	UK
Antti	Knaapila	antti.knaapila(at)helsinki.fi	Finland
Jacquie	Deeb	jacquiedeeb(at)hotmail.com	UK
Luisa	Dematte	luisa.dematte(at)psy.ox.ac.uk	Italy
Leslie	Cameron	lcameron(at)carthage.edu	USA
Andreas	Keller	kellera(at)mail.rockefeller.edu	USA

Tino	Just	tino.just(at)teambender.de	Germany
Marga	Veldhuizen	M.Veldhuizen(at)fss.uu.nl	NL/USA
Carl	Philpott	carl.philpott(at)btopenworld.com	UK
Barbara	Husarova	barbara(at)husar.sk	Czech Rep.
Jay	Pinto	jpinto(at)surgery.bsd.uchicago.edu	USA
Jessica	Albrecht	Jessica.Albrecht(at)med.uni-muenchen.de	Germany
Oliver	Briede	o.briede(at)burghart.net	Germany
Lawrence	Fanuel	fanuel.l(at)pg.com	Belgium
Rianne	Ruijschop	Rianne.Ruijschop(at)nizo.nl	NL

The following people participated in our previous Summerschool in 2003

Boyle	Julie	julie.boyle(at)mcgill.ca	Canada
Broman	Daniel	daniel.broman(at)psy.umu.se	Sweden
Butinas	Llinas	linas.buntinas(at)uchsc.edu	USA
Chu	Simon	schu(at)uclan.ac.uk	UK
Colley	Beverly	colley(at)neuro.fsu.edu	USA
Ferdenzi	Camille	ferdenzi(at)cesg.cnrs.fr	France
Frasnelli	Johannes	frasnelli(at)yahoo.com	Italy
Frey	Sabine	freysabine(at)web.de	Germany
Heuberger	Eva	eva.heuberger(at)univie.ac.at	Austria
Jönsson	Frederik	fredrik.jonsson(at)psyk.uu.se	Sweden



Landis	Basile	bnlandis(at)hotmail.com	Switzerland
Lundstrom	Johan	johan.lundstrom(at)psyk.uu.se	Sweden
Shah	Mussadiqh	musshah(at)yahoo.co.uk	UK
Pouliot	Sandra	spouliot(at)ego.psych.mcgill.ca	Canada
Rombaux	Philippe	Philippe.Rombaux(at) orlo.ucl.ac.be	Belgium
Sacher	Petra	cocille(at)web.de	Germany
Sergeant	Mark	Mark.Sergeant(at)ntu.ac.uk	UK