

ECRO 2019

11 - 14 September 2019

Trieste, Italy



Photo credit: Andrea Tomicich

**XXIXth Annual Meeting of the European
Chemoreception Research Organization**

PROGRAM

ECRO 2019

**ICTP, The Abdus Salam International Centre for Theoretical Physics,
Trieste, Italy
11-14 September 2019**

Program Chairs:

Anna Menini

SISSA, Trieste

Paolo Gasparini

IRCCS Burlo Garofolo and University of Trieste

Antonio Celani

ICTP, Trieste

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Stefan Fuss (General Secretary)

Marika Kapsimali (Executive Secretary & Treasurer)

Ivan Manzini (Elected Member)

Scott McGrane (Co-opted member)

General information

Venue

The ECRO 2019 meeting will be hosted at the campus of ICTP, The Abdus Salam International Centre for Theoretical Physics, Trieste (www.ictp.it). Local bus 6 connects the ICTP campus with Trieste city center.

Registration desk

Registration will take place on Wednesday, 11 September from 17:00 to 19:30 on the Terrace of the ICTP Adriatico Guesthouse, Via Grignano 9.

For those arriving in the following days, the registration desk will be located at the entrance of the ICTP Leonardo Building, Strada Costiera 11.

Secretary: Erica Sarnataro tel +39 040 2240623, e-mail: smr3321@ictp.it

Conference badges

Please wear your name badge at all times to promote networking and to assist staff in identifying you.

Scientific Session Protocol

Photography, audio or video recording of the scientific sessions, including poster session is not permitted.

Internet Access

At registration, you will be given instructions to access ICTP Wifi. If you already have a working eduroam account from your home institution, you can use it at the ICTP as well.

Online Program

The online interactive program is available at the following link:

<https://coms.events/ECRO2019/index.html>

Oral Presentations

Please provide an electronic copy of your presentation in a break prior to your scheduled talk, to a member of the AV team who will be based in the meeting rooms.

Poster Sessions

Posters will be displayed through the conference on the Terrace of the Leonardo Building. Please display your poster on arrival.

There will be two poster sessions with coffee break :

Thursday 12 September (odd numbers)

Friday 13 September (even numbers)

Your assigned poster board number is the number of your poster as indicated in this booklet.

In case of bad weather, presenters will be requested to move their posters inside.

Catering

All buffet lunches and coffee breaks will take place on the Terrace of the Leonardo Building. In case of bad weather, catering will be organized inside.

Dietary requirements

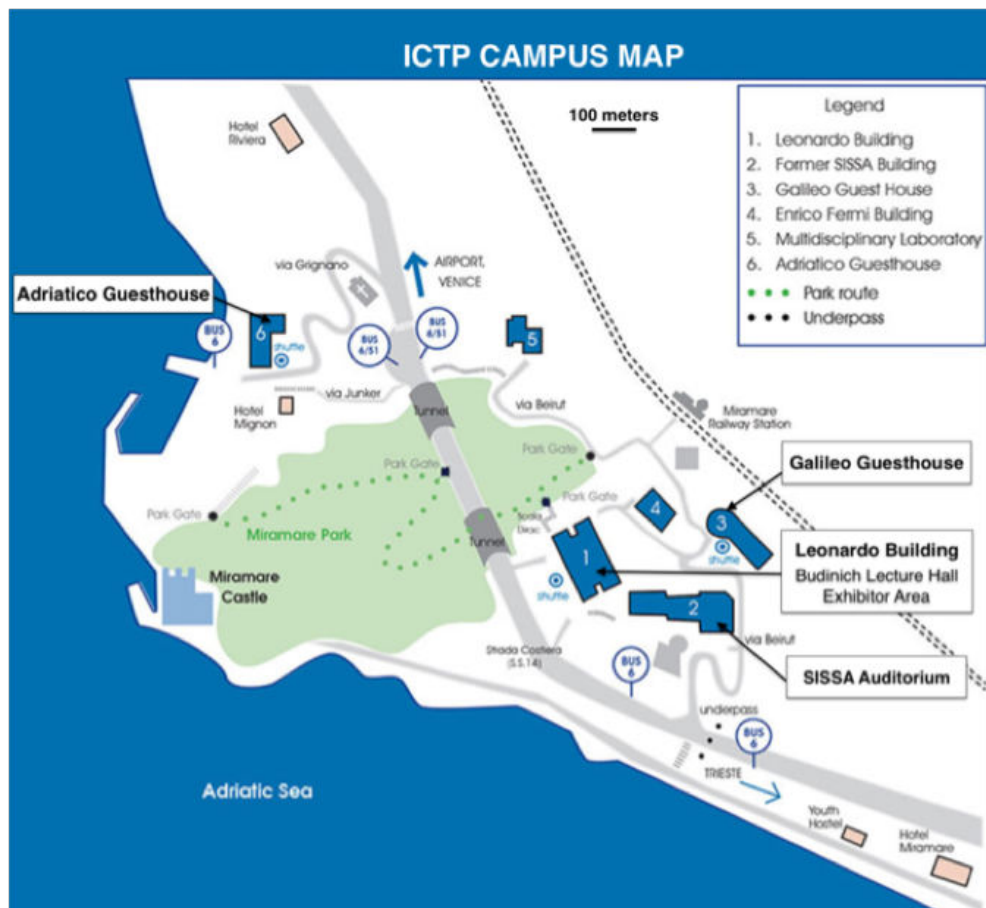
If you have informed the organizers of dietary requirements during registration, you will be provided with a colored tag. Please take the colored tag with you and show it to the catering team and they will assist you with your meal request. At the conference dinner, place the colored tag on the table in front of you. If you have not informed the organizers of any dietary requirements or allergies during registration, please make sure to do so on-site at the registration desk.

Certificate of participation

Please ask the registration desk if you need a certificate of participation to the meeting.

Messages

Messages can be posted on a board next to the registration desk in the Leonardo Building.



Social events

For each social event, registration is required during the conference registration process.

Visit to the illycaffè production plant

Wednesday, 11 September 2019, morning or afternoon tours.

A guided tour to the illy caffè production plant in Via Flavia, 110, Trieste. You will get to know the history of the company and its values, how green coffee is selected, how the aroma is born from roasting and cooling, and how the quality control laboratory operates.

Bus departure and return: Adriatico Guesthouse, Via Grignano, 9, Trieste.

Get-together and Welcome Buffet Dinner

Wednesday, 11 September 2019, 19:30-23:00

Adriatico Guesthouse, Via Grignano, 9, Trieste.

Meet friends and colleagues with drinks and buffet dinner on a terrace facing the Adriatic Sea, the northernmost arm of the Mediterranean Sea.

Boat Trip with Aperitivo

Thursday, 12 September 2019, 19:00-20:30

A tour in the Gulf of Trieste with Delfino Verde boat to admire spectacular views of the coast while savoring your Aperitivo (drinks and snacks).

Reserved buses will depart from the Leonardo building starting at 6 pm to bring the participants, who have booked the boat tour, to the Grignano pier (near the Adriatico Guesthouse).

Boat departure at 7 pm. Arrival at Stazione Marittima (city center) at 8:30 pm.

Free evening in the city center and return to guesthouses or hotels by Local bus 6 or by taxi.

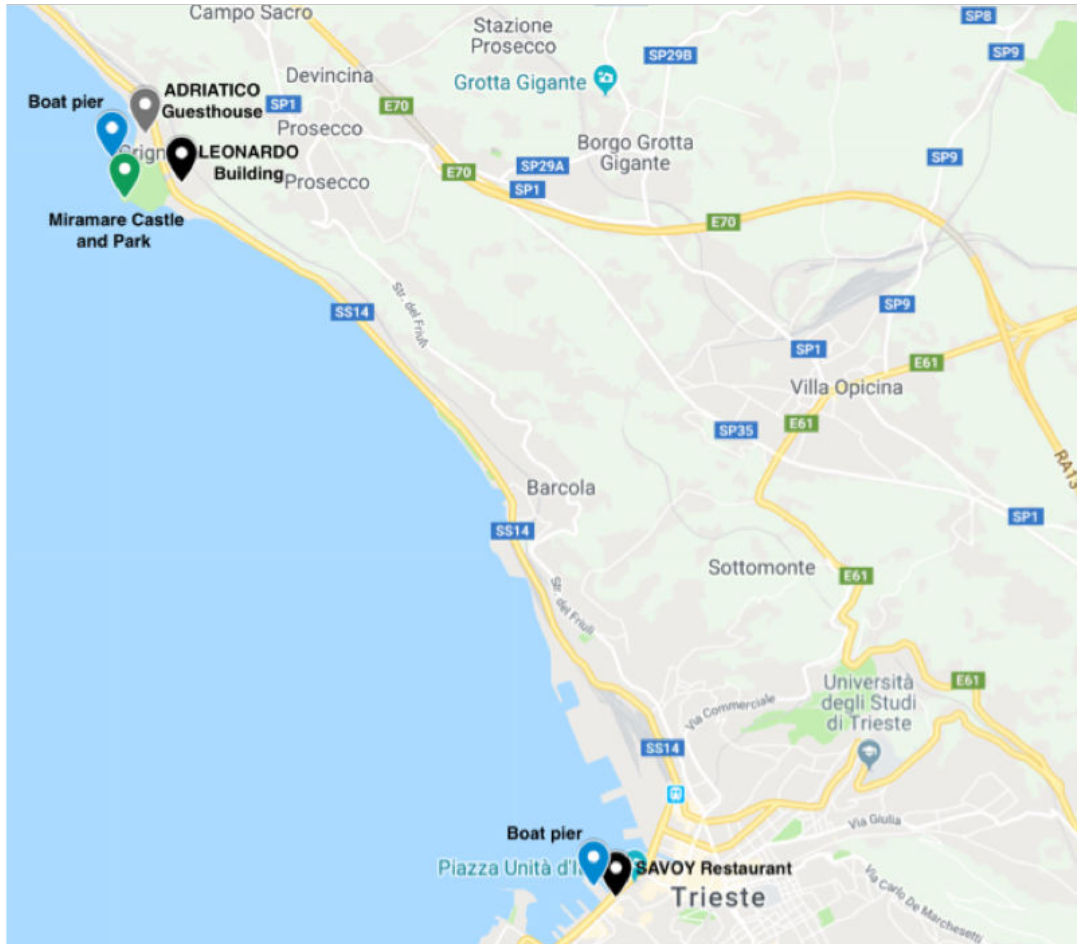
Conference Dinner

Saturday, 14 September 2019, 20:00-23:00

Savoy Restaurant, Riva del Mandracchio 4, Trieste

Departure at 7:30 pm with reserved buses from the stop of local bus 6 in Grignano, near the Adriatico guesthouse. Return buses will depart at 11 pm from the Savoy Restaurant.

Additional stops will be arranged at the registration desk to pick up or drop off participants staying in the Galileo guesthouse or in hotels.



2019 Travel Grant Award Recipients

ECRO and Polak Foundation

The Polak Foundation Awards are funded by "The Elsie Werner-Polak Memorial Fund in memory of our niece, gassed by the Nazis in 1944 at age 7: Ghislaine Polak and the late Ernest Polak".

Belser, Nathalee (Durham, NC, USA)
Bouysset, Cedric (Nice, France)
Dekel, Amir (Rehovot, Israel)
Genovese, Federica (Philadelphia, USA)
Grau-Perales, Alejandro Borja (Granada, Spain)
Gumaste, Ankita (New Haven, CT, USA)
Krause, Marie-Elisabeth (Dresden, Germany)
Mina, Raena (New York, NY, USA)
Moon, Sun Ae (Dalsunggun, South Korea)
Sharp, Slater (Boston, MA, USA)
Stöger, Verena (Vienna, Austria)
Trouillet, Anne-Charlotte (Nouzilly, France)
Weiss, Lukas (Giessen, Germany)
Yoles-Frenkel, Michal (Jerusalem, Israel)

ICTP Grants

Batra, Srishti (Bangalore, India)
Gupta, Nitin (Kanpur, India)
Han, Pengfei (Chongqing, China)
Hernández-Soto, Rebeca (Queretaro, Mexico)
Kocagöz, Yigit (Istanbul, Turkey)
Picoreti Nakahara, Thiago (São Paulo, Brazil)

Conference Sponsors

We would like to acknowledge the generous support from the following organizations:

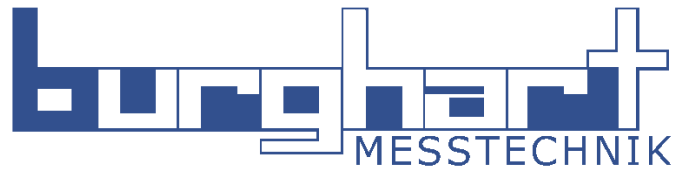
MARS



The Abdus Salam
**International Centre
for Theoretical Physics**



SISSA



ECRO 2019 Annual Meeting

Program in Detail

Wednesday, 11 September 2019	
10:40 - 13:30 or 14:10 - 17:00	Guided tours to the illycaffè production plant, Via Flavia 110, Trieste
17:00 – 19:00	ECRO Board Meeting Lundqvist Lecture Hall Adriatico Guesthouse
17:00 – 19:30	Registration Terrace Adriatico Guesthouse
19:30 – 23:00	Get together and Welcome Dinner Terrace Adriatico Guesthouse

Thursday, 12 September 2019	
08:45 – 09:00	Welcome Address Room: Budinich Lecture Hall Leonardo Building
09:00 – 09:45	proESOF Plenary Lecture – Linda Buck Room: Budinich Lecture Hall Chair: Anna Menini
	Th-001 Mechanisms underling smell and stress in mammals <u>Linda Buck</u> <i>Fred Hutchinson Cancer Research Center, USA, Seattle, United States</i>
09:45 – 10:15	Coffee break
10:15 – 12:15	Symposium 1 ECRO Young Investigators Room: Budinich Lecture Hall Chairs: Linda Buck, Peter Mombaerts

Thursday, 12 September continued	
10:15 – 12:15	<p>Symposium 2 Sweet taste receptors and appetite/weight regulation Room: SISSA Auditorium Chairs: David Garcia-Burgos, Milagros Gallo</p>
12:15 – 13:45	Lunch
13:45 – 15:45	<p>Illycaffè Symposium Advances in coffee flavour: perception, physiology and cognition Room: Budinich Lecture Hall Chair: Furio Suggi Liverani</p>
13:45 – 15:45	<p>Symposium 4 Olfactory loss – the clinical perspective Room: SISSA Auditorium Chair: Thomas Hummel</p>
15:45 – 17:15	<p>Poster Session (odd numbers) and coffee break Room: Terrace Leonardo Building</p>
17:15 – 18:00	<p>Plenary Lecture – Silke Sachse Room: Budinich Lecture Hall Chair: Heinz Breer</p>
	<p>Th-001 Olfactory maps, circuits and behaviors of Drosophila <u>Silke Sachse</u> <i>Max Planck Institute for Chemical Ecology, Department of Evolutionary Neuroethology, Jena, Germany</i></p>
19:00-20:30	Boat tour and Aperitivo

Friday, 13 September 2019	
09:00 - 09:45	Plenary Lecture - Emily Liman Room: Budinich Lecture Hall Chair: Loic Briand
	Fr-001 From sour taste to the otoperin proton channels <u>Emily R. Liman</u> <i>Section of Neurobiology, Department of Biological Sciences and USC Bridge Institute, University of Southern California, USA, Los Angeles, United States</i>
09:45 - 10:15	Coffee break
10:15 - 12:15	Symposium 5 Olfactory memory: its role and way of functioning in human life Room: Budinich Lecture Hall Chair: Julien Delarue
10:15 - 12:15	Symposium 6 Ectopic chemosensory receptors, from their physiology to pharmacology Room: SISSA Auditorium Chairs: Antonella Di Pizio, Michele Dibattista
12:15 - 13:45	Lunch
13:45 - 15:45	Symposium 7 Chosen from abstract submission Room: Budinich Lecture Hall Chairs: Frank Zufall, Trese Leinders-Zufall
13:45 - 15:45	Symposium 8 Olfactory information processing in higher brain regions Room: SISSA Auditorium Chair: Emre Yaksi
15:45 - 16:15	ECRO General Assembly Room: Budinich Lecture Hall
16:15 - 17:45	Poster Session (even numbers) and coffee break Room: Terrace Leonardo Building

Friday, 13 September continued	
17:45 - 18:30	Plenary Lecture - Lisa Stowers Room: Budinich Lecture Hall Chair: Stefan Fuss
	Fr-001 Leveraging olfaction to study social behavior in the mouse <u>Lisa Stowers</u> <i>Scripps Research, La Jolla, United States</i>
18:30 - 19:30	Aperitivo Terrace Leonardo Building

Saturday, 14 September 2019	
09:00 - 09:45	Plenary Lecture - Nirupa Chaudhari Room: Budinich Lecture Hall Chair: Annick Faurion
	Sa-001 Afferent neurons for taste: transcriptomes, connectivity and coding <i>Nirupa Chaudhari, Stephen Roper</i> <i>Dept. of Physiology & Biophysics and Dept. of Otolaryngology, University of Miami Miller School of Medicine, Miami, United States</i>
09:45 - 10:15	Coffee break
10:15 - 12:15	Symposium 9 Temporal dynamics in olfaction Room: Budinich Lecture Hall Chair: Michael Schmucker
10:15 - 12:15	Symposium 10 Sensory perception of food: genes, food choices and health Room: SISSA Auditorium Chair: Paolo Gasparini
12:15 - 13:45	Lunch
13:45 - 15:45	Symposium 11 Recent developments and emerging principles in central odor coding Room: Budinich Lecture Hall Chairs: Dmitry Rinberg, Kevin Franks
13:45 - 15:45	Symposium 12 Narrowing olfactory spaces and the combinatorial receptor codes for odors Room: SISSA Auditorium Chair: Jonathan Daniel Bohbot
15:45 - 16:15	Coffee break

Saturday, 14 September continued	
16:15 - 17:00	<p>Mars Plenary Lecture - Jonathan Beauchamp Room: Budinich Lecture Hall Chair: Scott McGrane</p>
	<p>Sa-001 Commencing countdown engines on – interplanetary flavour perception on a mission to Mars <u>Jonathan Beauchamp</u>¹, Andrew Taylor², Loic Brand³, Victor Demaria Pesce⁴, Martina Heer⁵, Thomas Hummel⁶, Scott McGrane⁷, Christian Margot⁸, Serge Pieters⁹, Paola Pittia¹⁰, Charles Spence¹¹, Inês Antunes¹² ¹ Fraunhofer IVV, Freising, Germany, ² Flavometrix Limited, Long Whatton, United Kingdom, ³ Centre for Taste and Feeding Behaviour, INRA, CNRS, AgroSup Dijon, Université de Bourgogne - Franche Comté, Dijon, France, ⁴ European Space Agency, Cologne, Germany, ⁵ IUBH International University, Bad Honnef, Germany, ⁶ Technical University Dresden, Dresden, Germany, ⁷ Mars Petcare, WALTHAM, United Kingdom, ⁸ Firmenich SA, Geneva, Switzerland, ⁹ Haute Ecole Leonard de Vinci, Brussels, Belgium, ¹⁰ University of Teramo, Teramo, Italy, ¹¹ University of Oxford, Oxford, United Kingdom, ¹² European Space Agency, Noordwijk, Netherlands</p>
17:00 - 17:30	<p>Closing Remarks Room: Budinich Lecture Hall</p>
20:00 - 23:00	<p>Conference Dinner Savoy Restaurant, Riva del Mandracchio 4, Trieste</p>

Symposium 1
ECRO Young Investigators
 Chairs: Linda Buck, Peter Mombaerts
 10:15-12:15 Thursday, 12 September 2019
 Room: Budinich Lecture Hall

10:15	<p>Th-S1-001 Employing High Probability Gene Choice Elements to Understand Singular Odorant Receptor Expression <u>Raena Mina</u>¹, Charlotte D'Hulst², Paul Feinstein² ¹ Hunter College City University of New York Graduate Center, New York, United States, ² City University of New York Graduate Center, New York, United States</p>
10:30	<p>Th-S1-002 Machine learning decodes olfactory receptors combinatorial codes <u>Xiaojing Cong</u>¹, Jody Pacalon¹, Yiqun Yu², Jérôme Golebiowski^{1,3} ¹ Institut de Chimie de Nice, UMR7272, Université Côte d'Azur, CNRS, Nice, France, ² Department of Otolaryngology, Eye, Ear, Nose & Throat Hospital, Shanghai Key Clinical Disciplines of Otorhinolaryngology, Fudan University, Shanghai, China, ³ Department of Brain and Cognitive Sciences, Daegu Gyeongbuk Institute of Science and Technology, Daegu, Korea, Republic of (South)</p>
10:45	<p>Th-S1-003 Role of the calmodulin binding site in the <i>Drosophila</i> odorant coreceptor Orco in olfactory performance and flight behavior <u>Kalpana Jain</u>, Sofia Lavista-Llanos, Bill S. Hansson, Dieter Wicher <i>Max Planck Institute for Chemical Ecology, Jena, Germany</i></p>
11:00	<p>Th-S1-004 Multiglomerular projections of single olfactory receptor neurons are a conserved and distinct feature of the amphibian olfactory system <u>Lukas Weiss</u>¹, Lucas D. Jungblut², Andrea G. Pozzi², Barbara S. Zielinski³, Lauren A. O'Connell⁴, Thomas Hassenklöver¹, Ivan Manzini¹ ¹ Department of Animal Physiology and Molecular Biomedicine, University of Giessen, Giessen, Germany, ² Departamento de Biodiversidad y Biología Experimental, Universidad de Buenos Aires, Buenos Aires, Argentina, ³ Department of Biology, University of Windsor, Windsor, Canada, ⁴ Department of Biology, Stanford University, Palo Alto, United States</p>

<p>11:15</p>	<p>Th-S1-005</p> <p>Role of Gα_{i2} signal transduction mediating reproductive and socio-sexual behaviors in mice.</p> <p><u>Anne-Charlotte Trouillet</u>¹, Matthieu Keller¹, Chantal Moussu¹, Jan Weiss², Trese Leinders-Zufall², Lutz Birnbaumer^{3,4}, Frank Zufall², Pablo Chamero¹</p> <p>¹ <i>Laboratoire de Physiologie de la Reproduction et des Comportements, UMR 0085 INRA-CNRS-IFCE-Université de Tours, Nouzilly, France,</i> ² <i>Center for Integrative Physiology and Molecular Medicine, Saarland University, Homburg, Germany,</i> ³ <i>Neurobiology Laboratory, National Institute of Environmental Health Sciences, National Institutes of Health, Durham, United States,</i> ⁴ <i>Institute of Biomedical Research, School of Medical Sciences, Catholic University of Argentina, Buenos Aires, Argentina</i></p>
<p>11:30</p>	<p>Th-S1-006</p> <p>Valenced odor cues influence processing of facial expressions for white and black faces.</p> <p><u>Marta Zakrzewska</u>¹, Andrea Aejmelaeus-Lindström¹, Torun Lindholm², Marco Tullio Liuzza³, Jonas Olofsson¹</p> <p>¹ <i>Gösta Ekmans Laboratory, Department of Psychology, Stockholm University, Stockholm, Sweden,</i> ² <i>Department of Psychology, Stockholm University, Stockholm, Sweden,</i> ³ <i>Department of Surgical and Medical Sciences, "Magna Graecia" University of Catanzaro, Catanzaro, Italy</i></p>
<p>11:45</p>	<p>Th-S1-007</p> <p>Taste recognition memory engages a dopaminergic accumbens – amygdala network: role of D1 dopamine receptors</p> <p><u>Alejandro Borja Grau-Perales</u>¹, Alejandro Navarro-Exposito¹, Beatriz Gómez-Chacón¹, Ignacio Morón², Milagros Gallo¹</p> <p>¹ <i>Departamento de Psicobiología. Instituto d Neurociencias. Centro de Investigación Biomédica. Universidad de Granada., Granada, Spain,</i> ² <i>Departamento de Psicobiología. Centro de Investigación Mente y Cerebro (CIMYC). Universidad de Granada, Granada, Spain</i></p>

Symposium 2
Sweet taste receptors and appetite/weight regulation
 Chairs: David Garcia-Burgos, Milagros Gallo

10:15-12:15 Thursday, 12 September 2019
 Room: SISSA Auditorium

10:15	Opening remarks
10:20	<p>Th-S2-001</p> <p>Resolution of the X-ray structure of gurmardin: new insights into the molecular mechanism of sweet taste receptor inhibition</p> <p>Maud Sigoillot ¹, Anne Brockhoff ², Fabrice Neiers ¹, Nicolas Poirier ¹, Christine Belloir ¹, Pierre Legrand ³, Christophe Charron ⁴, Pierre Roblin ³, Wolfgang Meyerhof ^{2,5}, <u>Loïc Briand</u> ¹</p> <p><i>¹ INRA, CNRS, Université de Bourgogne-Franche Comté, AgroSup Dijon, Centre des Sciences du Goût et de l'Alimentation, Dijon, France, ² Department of Molecular Genetics, German Institute of Human Nutrition, Potsdam-Rehbruecke, Arthur-Scheunert-Allee 114-116, Nuthetal, Germany, ³ SOLEIL Synchrotron, L'Orme de Merisiers, Saint-Aubin, Gif-sur-Yvette, France, ⁴ Ingénierie Moléculaire et Physiopathologie Articulaire, Centre National de la Recherche Scientifique Unité Mixte de Recherche 7365, Université de Lorraine, Biopôle de l'Université de Lorraine, Vandoeuvre-les-Nancy, France, ⁵ Department of Physiology, Center for Integrative Physiology and Molecular Medicine (CIPMM), Saarland University, Kirrbergerstrasse, Bldg. 48, Homburg, Germany</i></p>
10:45	<p>Th-S2-002</p> <p>Multiple sweet taste signaling pathways in taste cells</p> <p><u>Robert Margolskee</u></p> <p><i>Monell Chemical Senses Center, Philadelphia, United States</i></p>

<p>11:10</p>	<p>Th-S2-003</p> <p>Short-term consumption of sucralose with, but not without, carbohydrate impairs neural and metabolic sensitivity to sugar</p> <p><u>Dana Small</u> ^{1,4}, Jelle Dalenberg ¹, Barkha Patel ², Raphael Denis ³, Maria Veldhuizen ¹, Yuko Nakamura ¹, Serge Luquet ³</p> <p>¹ <i>The Modern Diet and Physiology Research Center, Department of Psychiatry, Yale University, New Haven, United States</i>, ² <i>Division of Endocrinology, The Hospital for Sick Children, Toronto, Canada</i>, ³ <i>Unite de Biologie Fonctionnelle et Adaptative, Centre National la Recherche Scientifique, Unité Mixte de Recherche 8251, Université Paris Diderot, Sorbonne Paris Cité, Paris, France</i>, ⁴ <i>Institute for Diabetes Research and Metabolic Diseases of the Helmholtz Center Munich at the University of Tübingen, Tübingen, Germany</i></p>
<p>11:35</p>	<p>Th-S2-004</p> <p>Molecular mechanisms of suppressing and modifying effects on sweet taste receptor sensitivity</p> <p><u>Keisuke Sanematsu</u> ^{1,2}, Yuzo Ninomiya ^{2,3}, Noriatsu Shigemura ^{1,2}</p> <p>¹ <i>Section of Oral Neuroscience, Graduate School of Dental Science, Kyushu University, Fukuoka, Japan</i>, ² <i>Research and Development Center for Five-Sense Devices, Kyushu University, Fukuoka, Japan</i>, ³ <i>Monell Chemical Senses Center, Philadelphia, United States</i></p>
<p>12:00</p>	<p>Closing remarks and general discussion</p>

illycaffè Symposium
Advances in coffee flavour: perception, physiology and cognition
 Chair: Furio Suggi Liverani
 13:45-15:45 Thursday, 12 September 2019
 Room: Budinich Lecture Hall

13:45	General remarks
14:00	Th-S3-001 Coffee olfactory stimuli investigated by time-resolved sensory and instrumental methods <u>Franco Biasioli</u> <i>Fondazione Edmund Mach, Trento, San Michele all'Adige, Italy</i>
14:25	Th-S3-002 Aldehydes in Coffee Flavour: Chemistry behind Perception <u>Valentina Lonzarich</u> , Luciano Navarini <i>illycaffè S.p.A., Trieste, Italy</i>
14:50	Th-S3-003 A computational view on coffee perception: modeling and simulations of chemosensory receptors <u>Mercedes Alfonso-Prieto</u> ^{1,2} , Alejandro Giorgetti ^{1,3} , Paolo Carloni ^{1,4} ¹ <i>Research Center Juelich, Germany, Juelich, Germany</i> , ² <i>Heinrich Heine University Duesseldorf, Duesseldorf, Germany</i> , ³ <i>University of Verona, Verona, Italy</i> , ⁴ <i>RWTH Aachen University, Aachen, Germany</i>
15:15	Th-S3-004 A functional agonist of insect olfactory receptors: Behavior, physiology and structure <u>Srishti Batra</u> ¹ , Jacob Corcoran ² , Dan-Dan Zhang ² , Pramit Pal ¹ , Umesh K.P. ¹ , Renuka Kulkarni ¹ , Christer Löfstedt ² , Ramanathan Sowdhamini ¹ , Shannon Olsson ¹ ¹ <i>National Centre for Biological Sciences- Tata Institute of Fundamental Research, Bangalore, India</i> , ² <i>Department of Biology, Lund University, Lund, Sweden</i>
15:35	Closing remarks and general discussion

Symposium 4
Olfactory loss – the clinical perspective

Chair: Thomas Hummel

13:45-15:45 Thursday, 12 September 2019

Room: SISSA Auditorium

13:45	Opening remarks
13:50	<p>Th-S4-001</p> <p>Presence of undetected olfactory loss in the general population</p> <p><u>Anna Oleszkiewicz</u></p> <p><i>University of Wroclaw, Wroclaw, Poland, Technische Universitat Dresden, Dresden, Germany</i></p>
14:10	<p>Th-S4-002</p> <p>Intranasal trigeminal function and its relation to olfactory disorders</p> <p><u>Caroline Huart</u></p> <p><i>ENT department, Cliniques universitaires Saint-Luc, Bruxelles, Belgium, Institute of Neuroscience, Université catholique de Louvain, Bruxelles, Belgium</i></p>
14:30	<p>Th-S4-003</p> <p>Magnetic resonance imaging of human olfactory dysfunction</p> <p><u>Pengfei Han</u>^{1,2}, Yunpeng Zang², Yoshi Akshita², Thomas Hummel²</p> <p>¹ <i>Faculty of Psychology, Southwest University, Chongqing, China,</i> ² <i>Interdisciplinary Center Smell and Taste, Department of Otorhinolaryngology, TU Dresden, Dresden, Germany</i></p>
14:55	<p>Th-S4-004</p> <p>Idiopathic olfactory and gustatory disorders as predictors of Parkinson´s disease</p> <p><u>Antje Haehner</u></p> <p><i>Smell & Taste Clinic, Department of Otorhinolaryngology, TU Dresden, Dresden, Germany</i></p>
15:20	<p>Th-S4-005</p> <p>Surgical therapy and olfactory loss.</p> <p><u>Simon Gane</u></p> <p><i>Royal National Throat, Nose and Ear Hospital, London, United Kingdom</i></p>

Symposium 5
Olfactory memory: its role and way of functioning in human life
 Chair: Julien Delarue
 10:15-12:15 Friday, 13 September 2019
 Room: Budinich Lecture Hall

10:15	Opening remarks
10:20	Fr-S5-001 The misfit theory of spontaneous conscious odour perception: reflections on the mechanisms involved in odour memory <u>Egon P. Köster</u> <i>University of Utrecht, Utrecht, Netherlands</i>
10:45	Fr-S5-002 Comparison of incidentally and intentionally learned odors and flavor memory in young and elderly people <u>Per Møller</u> <i>Per Møller consulting, Bagsværd, Denmark</i>
11:05	Fr-S5-003 Novelty detection in memory of odors and pictures over short and long delays <u>Elisabeth Leslie Cameron</u> ¹ , Per Møller ² , E.P. Köster ³ <i>¹ Carthage College, Kenosha, United States, ² Copenhagen University, Copenhagen, Denmark, ³ University of Utrecht, Utrecht, Netherlands</i>
11:25	Fr-S5-004 Neurobiology of odor object perception in multi-sensory contexts <u>Donald Wilson</u> <i>New York University School of Medicine, New York, United States, Emotional Brain Institute, Nathan Kline Institute for Psychiatric Research, Orangeburg, United States</i>
11:50	Fr-S5-005 Neurotransmitter and Neuromodulator Influences on Odor Discriminability and Memory <u>Richard Doty</u> <i>Perelman School of Medicine, Department of Otorhinolaryngology - Head and Neck Surgery, Smell and Taste Center, University of Pennsylvania, Philadelphia, PA 19104, United States</i>

<p>Symposium 6</p> <p>Ectopic chemosensory receptors, from their physiology to pharmacology</p> <p>Chairs: Antonella Di Pizio, Michele Dibattista</p> <p>10:15-12:15 Friday, 13 September 2019</p> <p>Room: SISSA Auditorium</p>	
10:15	Opening remarks
10:20	<p>Fr-S6-001</p> <p>Physiological roles for olfactory receptors: beyond the nose</p> <p><u>Jennifer Pluznick</u></p> <p><i>Johns Hopkins School of Medicine, Baltimore, United States</i></p>
10:45	<p>Fr-S6-002</p> <p>Discovery of endogenous ligands and the function of OR51E2 in prostate cancer</p> <p><u>Tatjana Abaffy</u>¹, James Bain², Michael Muehlbauer², Ivan Spasojevic³, Shweta Lodha¹, Elisa Bruguera¹, Sara O'Neal², So Young Kim¹, Hiroaki Matsunami¹</p> <p>¹ <i>Department of Molecular Genetics and Microbiology, Duke Cancer Institute, Duke University School of Medicine, Durham, United States,</i> ² <i>Duke Molecular Physiology Institute, Duke University School of Medicine, Durham, United States,</i> ³ <i>Department of Medicine, Duke University School of Medicine, Durham, United States</i></p>
11:10	<p>Fr-S6-003</p> <p>Modulators for bitter taste receptors: non conventional therapeutic opportunities</p> <p><u>Gabriele Costantino</u></p> <p><i>Department of Food and Drugs, University of Parma (Italy), Parma, Italy</i></p>
11:35	<p>Fr-S6-004</p> <p>Potential druggability of chemosensory GPCRs and computer-aided design of their ligands</p> <p><u>Antonella Di Pizio</u>¹, Maik Behrens², Dietmar Krautwurst²</p> <p>¹ <i>Section In Silico Biology & Machine Learning, Leibniz-Institute for Food Systems Biology at the Technical University of Munich, Freising,</i> ² <i>Section Chemoreception and Biosignals, Leibniz-Institute for Food Systems Biology at the Technical University of Munich, Freising, Germany</i></p>
12:00	Closing remarks and general discussion

Symposium 7
Chosen from abstract submission
 Chairs: Frank Zufall, Trese Leinders-Zufall
 13:45-15:45 Friday, 13 September 2019
 Room: Budinich Lecture Hall

13:45	<p>Fr-S7-001</p> <p>Stimulation of chemosensory brush cells triggers gallbladder contraction in the mouse.</p> <p><u>Maryam Keshavarz</u>¹, Anna-Lena Ruppert², Schayan Tabrizi¹, Alexander Perniss¹, Uwe Pfeil¹, Amir Rafiq¹, Petra Hartmann¹, Petra Mermer¹, Jochen Klein³, Burkhard Schütz², Wolfgang Kummer¹</p> <p>¹ <i>Institute of Anatomy and Cell Biology, German Center for Lung Research, Justus-Liebig-University Giessen, Gießen, Germany,</i> ² <i>Institute of Anatomy and Cell Biology, Philipps University, Marburg, Germany,</i> ³ <i>Department of Pharmacology, School of Pharmacy, Goethe University Frankfurt, Frankfurt, Germany</i></p>
14:00	<p>Fr-S7-002</p> <p>Bitter tastants and artificial sweeteners activate a subset of rat tracheal epithelial cells</p> <p>Chiara Lasconi¹, <u>Pifferi Simone</u>², Andres Hernandez-Clavijo², Flavia Merigo¹, Maria Paola Cecchini¹, Kevin Y. Gonzalez-Velandia², Emilio Agostinelli², Andrea Sbarbati¹, Anna Menini²</p> <p>¹ <i>Department of Neurosciences, Biomedicine and Movement Sciences, Anatomy and Histology Section, University of Verona, School of Medicine, Verona, Italy,</i> ² <i>Neurobiology Group, SISSA, International School for Advanced Studies, Trieste, Italy</i></p>
14:15	<p>Fr-S7-003</p> <p>Detection of gut bacteria by the ASICs DEL-7 and DEL-3 in an enteric sensory neuron in <i>C. elegans</i></p> <p><u>Steven Flavell</u>¹, Jeffrey Rhoades¹, Ni Ji¹, Gurrein Madan¹, Jessica Nelson², Daniel Colon-Ramos², Ijeoma Nwabudike¹, Stephanie Yu¹, Ian McLachlan¹, Eden Abebe¹, Joshua Powers¹</p> <p>¹ <i>Dept of Brain & Cognitive Sciences, Picower Institute for Learning & Memory, Massachusetts Institute of Technology, Cambridge, United States,</i> ² <i>Dept of Neuroscience and Dept of Cell Biology, Yale University School of Medicine, New Haven, United States</i></p>

14:30	<p>Fr-S7-004</p> <p>Modulation of sweet taste intensity using heterogeneous distribution of sugars in liquid foodstuffs and its impact on postprandial metabolic response</p> <p>Sameer Kulkarni ², Beatrice Aubert ¹, Anthony Lima ¹, Jean Baptiste Thomazo ¹, Nathalie Frei ², Maurice Beaumont ³, Melissa Lepage ⁴, <u>Susana Camacho Romero</u> ¹, Katrin Macé ², Andreas Rytz ³, Kim-Anne Le Bur ², Benjamin Le Reverend ¹</p> <p>¹ Perception Physiology, Nestlé Institute of Materials Science, Lausanne, Switzerland, ² Cardio-Metabolic Physiology, Nestlé Institute of Health Sciences, Lausanne, Switzerland, ³ Clinical Development Unit, Nestlé Research, Lausanne, Switzerland, ⁴ Virtual Prototyping, Nestlé Institute of Materials Science, Lausanne, Switzerland</p>
14:45	<p>Fr-S7-005</p> <p>Purinergic signaling stimulates olfactory sensory neurogenesis from globose but not horizontal basal cells in the zebrafish olfactory epithelium</p> <p><u>Stefan Fuss</u> ^{1,2}, Mehmet Can Demirler ^{1,2}, Ugurcan Sakizli ^{1,2}, Burak Bali ⁴, Yigit Kocagöz ^{1,2}, Sema Elif Eski ^{1,2}, Arda Ergöner ¹, Aysu Seval Alkiraz ¹, Xalid Bayramli ¹, Thomas Hassenklöver ³, Ivan Manzini ³</p> <p>¹ Bogazici University, Molecular Biology and Genetics, Istanbul, Turkey, ² Center for Life Sciences and Technologies, Istanbul, Turkey, ³ Justus-Liebig-University Giessen, Department of Animal Physiology and Molecular Biomedicine, Giessen, Germany, ⁴ University Medical Center Göttingen Institute for Auditory Neuroscience, Göttingen, Germany</p>

<p>15:00</p>	<p>Fr-S7-006 Melanin-concentrating hormone serves a modulatory role in the mouse olfactory bulb. Kalene Jasso ¹, Jordan Ross ², Heather Kulaga ³, Max Fletcher ², Randall Reed ³, <u>Jeremy McIntyre</u> ¹ <i>¹ Department of Neuroscience Center for Smell and Taste University of Florida, Gainesville, FL, United States, ² Anatomy and Neurobiology University of Tennessee Health Science Center, Memphis, TN, United States, ³ Molecular Biology and Genetics Johns Hopkins University, Baltimore, MD, United States</i></p>
<p>15:15</p>	<p>Fr-S7-007 Odor identification in rats: Behavioral and electrophysiological evidence of learned olfactory-auditory associations <u>Jonas Olofsson</u> ¹, Guangyu Zhou ², Brett East ^{3,4}, Christina Zelano ², Donald Wilson ^{3,4} <i>¹ Stockholm University, Stockholm, Sweden, ² Northwestern University, Chicago, United States, ³ Nathan Kline Institute, Orangenburg, United States, ⁴ New York University, New York, United States</i></p>
<p>15:30</p>	<p>Fr-S7-008 Classifying dementia progression using chemosensory phenotyping and salivary profiling <u>Lavinia Alberi</u> ^{1,2,3}, Praveen Bathini ², Isabelle Dupanloup ¹, Amalia Perna ^{1,2}, Hira Imeri ¹, Jean-Marie Annoni ² <i>¹ Swiss Integrative Center for Human Health, Fribourg, Switzerland, ² University of Fribourg, Fribourg, Switzerland, ³ Center Lemanique de la Memoire, CHUV, Lausanne, Switzerland</i></p>

Symposium 8
Olfactory information processing in higher brain regions

Chair: Emre Yaksi

13:45-15:45 Friday, 13 September 2019

Room: SISSA Auditorium

13:45	Opening remarks
13:50	<p>Fr-S8-001</p> <p>Synchronous infra-slow oscillations organize ensembles of accessory olfactory bulb projection neurons into distinct microcircuits</p> <p>Chryssanthi Tsitoura ^{1,6}, Sebastian Malinowski ¹, Julia Mohrhardt ¹, Katja Watznauer ¹, Markus Rothermel ², Ileana L. Hanganu-Opatz ³, Yoram Ben-Shaul ⁴, Ian Davison ⁵, <u>Marc Spehr</u> ¹</p> <p><i>¹ Department of Chemosensation, Institute for Biology II, RWTH Aachen University, Aachen, Germany, ² Neuromodulation Group, Institute for Biology II, RWTH Aachen University, Aachen, Germany, ³ Developmental Neurophysiology, Institute of Neuroanatomy, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ⁴ School of Medicine, Department of Medical Neurobiology, The Hebrew University of Jerusalem, Jerusalem, Israel, ⁵ Department of Biology, Boston University, Boston, United States, ⁶ Sainsbury Wellcome Centre, London, United Kingdom</i></p>
14:15	<p>Fr-S8-002</p> <p>Higher olfactory circuits for learned and innate behaviors</p> <p><u>Alexander S. Bates</u>, Gregory Jefferis</p> <p><i>MRC LMB & University of Cambridge, Cambridge, United Kingdom</i></p>
14:40	<p>Fr-S8-003</p> <p>Olfactory control of limbic maturation</p> <p><u>Ileana Hanganu-Opatz</u></p> <p><i>University Medical Center Hamburg-Eppendorf, Hamburg, Germany</i></p>
15:05	<p>Fr-S8-004</p> <p>Integration of olfactory and limbic information at the level of habenula</p> <p>Ewelina Bartoszek, Suresh Kumar Jetti, <u>Emre Yaksi</u></p> <p><i>Kavli Institute for Systems Neuroscience, Trondheim, Norway</i></p>
15:30	Closing remarks and general discussion

Symposium 9
Temporal dynamics in olfaction
 Chair: Michael Schmuker
 10:15-12:15 Saturday, 14 September 2019
 Room: Budinich Lecture Hall

10:15	Opening remarks
10:20	Sa-S9-001 Odor landscapes in turbulent environments <u>Antonio Celani</u> <i>ICTP, Trieste, Italy</i>
10:45	Sa-S9-002 Mammalian Olfaction is a high temporal bandwidth sense <u>Debanjan Dasgupta</u> , Andreas Schaefer <i>The Francis Crick Institute, London, United Kingdom</i>
11:10	Sa-S9-003 Turbulence-induced fluctuations in odorant concentration encode source proximity. <u>Michael Schmuker</u> <i>Biocomputation Research Group Department of Computer Science University of Hertfordshire, Hatfield, United Kingdom</i>
11:35	Sa-S9-004 Mouse detection of fluctuating odors based on intermittency <u>Ankita Gumaste</u> ^{1,2} , Keeley Baker ^{1,2} , Erin Connor ³ , John Crimaldi ³ , Justus Verhagen ^{1,2} <i>¹ Yale University Department of Neuroscience, New Haven, United States, ² John B. Pierce Laboratory, New Haven, United States, ³ Civil, Environmental, and Architectural Engineering, University of Colorado, Boulder, United States</i>
12:00	Closing remarks and general discussion

Symposium 10
Sensory perception of food: genes, food choices and health

Chair: Paolo Gasparini

10:15-12:15 Saturday, 14 September 2019

Room: SISSA Auditorium

10:15	Opening remarks
10:20	<p>Sa-S10-001</p> <p>Factors influencing responsiveness to oral stimuli and their associations with food preferences and choice</p> <p><u>Caterina Dinnella</u>, Sara Spinelli, Alessandra De Toffoli, Lapo Pierguidi, Erminio Monteleone</p> <p><i>Dept DAGRI University of Florence, Firenze (FI), Italy</i></p>
10:45	<p>Sa-S10-002</p> <p>Genetic influences on taste perception and their link with eating behavior and health</p> <p><u>Antonietta Robino</u>¹, Maria Pina Concas¹, Eulalia Catamo¹, Massimiliano Cocca¹, Paolo Gasparini^{1,2}</p> <p>¹ <i>Institute for Maternal and Child Health - IRCCS "Burlo Garofolo", Trieste, Italy,</i> ² <i>University of Trieste, Trieste, Italy</i></p>
11:10	<p>Sa-S10-003</p> <p>Molecular basis of acid sensation</p> <p><u>Youngseok Lee</u></p> <p><i>Department of Bio and Fermentation Convergence Technology, Kookmin University, Seoul, Korea, Republic of (South)</i></p>
11:25	<p>Sa-S10-004</p> <p>Predicting multi-functionality of bitter taste compounds using computational tools</p> <p><u>Eitan Margulis</u>¹, Yuli Slavutsky², Anne Tromelin³, Yuval Benjamini², Masha Y. Niv¹</p> <p>¹ <i>The Institute of Biochemistry, Food Science and Nutrition, The Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel,</i> ² <i>Center of Interdisciplinary Data Science Research, The Hebrew University of Jerusalem, Jerusalem, Israel,</i> ³ <i>Centre des Sciences du Goût et de l'Alimentation, AgroSup Dijon, CNRS, INRA, Université Bourgogne Franche-Comté, F-21000, Dijon, France</i></p>

11:40	<p>Sa-S10-005</p> <p>Naturally occurring, non-functional polymorphisms in cardiac T2R (bitter taste) receptors.</p> <p><u>Conor Bloxham</u>¹, Simon Foster², Walter Thomas¹</p> <p><i>¹ School of Biomedical Sciences, University of Queensland, Saint Lucia, QLD, Australia, ² Department of Biochemistry & Molecular Biology, Monash University, Clayton, VIC, Australia</i></p>
11:55	<p>Closing remarks and general discussion</p>

Symposium 11
**Recent developments and emerging principles
in central odor coding**

Chairs: Dmitry Rinberg, Kevin Franks

13:45-15:45 Saturday, 14 September 2019

Room: Budinich Lecture Hall

13:45	Opening remarks
13:50	<p>Sa-S11-001 Information processing by an olfactory functional unit and a primacy coding hypothesis <u>Dmitry Rinberg</u> <i>Neuroscience Institute, New York University School of Medicine, New York, United States</i></p>
14:15	<p>Sa-S11-002 How intrinsic circuits shape cortical odor representations <u>Kevin Franks</u> <i>Duke University, Durham, United States</i></p>
14:40	<p>Sa-S11-003 Rapid task-dependent tuning of the mouse olfactory bulb <u>Izumi Fukunaga</u> <i>Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan</i></p>
15:00	<p>Sa-S11-004 Inhibitory neuronal computations in olfactory memory <u>Rainer Friedrich</u> <i>Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland</i></p>
15:25	<p>Sa-S11-005 A map for odors and space in posterior piriform cortex <u>Cindy Poo</u>, Gautam Agarwal, Niccolo Bonacchi, Zachary Mainen <i>Champalimaud Neuroscience Programme, Champalimaud Foundation, Lisbon, Portugal</i></p>

Symposium 12
**Narrowing olfactory spaces and the combinatorial receptor codes
 for odors**

Chair: Jonathan Daniel Bohbot

13:45-15:45 Saturday, 14 September 2019

Room: SISSA Auditorium

13:45	Opening remarks
13:50	<p>Sa-S12-001 The narrowing olfactory landscape of insect odorant receptors <u>Jonathan Bohbot</u> <i>The Hebrew University of Jerusalem, Rehovot, Israel</i></p>
14:15	<p>Sa-S12-002 Are broadly tuned human odorant receptors nevertheless selective? <u>Dietmar Krautwurst</u>, Tim Frey, Franziska Haag, Patrick Marcinek <i>Leibniz-Institute for Food Systems Biology at the Technical University of Munich, Freising, Germany</i></p>
14:40	<p>Sa-S12-003 De-Orphanizing Mammalian Olfactory Receptors <u>Hiro Matsunami</u> <i>Duke University, Durham, United States</i></p>
15:05	<p>Sa-S12-004 Identifying key olfactory receptors in odor perception using machine learning <u>Joel Mainland</u> <i>Monell Chemical Senses Center, Philadelphia, United States, University of Pennsylvania, Philadelphia, United States</i></p>
15:30	Closing remarks and general discussion

Poster Sessions

Terrace Leonardo Building

Theme I: P001 - P040
Taste and Olfaction: periphery

P001

Mosquito olfaction: conserved odorant receptors, multiple ecological roles.

Amir Dekel, Esther Yakir, Jonathan Bohbot

Department of Entomology, the Robert H. Smith Faculty of Agriculture, Food and Environment, Hebrew University of Jerusalem, Rehovot, Israel

P002

Abnormal development of olfactory system in mice lacking Prok2

Bo-ra Kim¹, Chang-hoon Kim^{2, 3, 4, 5}

¹ Yonsei University College of Medicine, Seoul, Korea, Republic of (South), ² Department of Otorhinolaryngology, Yonsei University College of Medicine, Seoul, Korea, Republic of (South), ³ The Airway Mucus Institute, Yonsei University College of Medicine, Seoul, Korea, Republic of (South), ⁴ Korea Mouse Sensory Phenotyping Center, Yonsei University College of Medicine, Seoul, Korea, Republic of (South), ⁵ Medical Research Center, Yonsei University College of Medicine, Seoul, Korea, Republic of (South)

P003

Purinergic signaling in the supporting cells of the mouse vomeronasal organ.

Andres Hernandez-Clavijo¹, Tiago Henriques², Anna Menini¹, Simone Pifferi¹

¹ SISSA- International School for Advanced Studies, Trieste, Italy, ² Institut National de la Santé et de la Recherche Médicale, U1213, Université Claude Bernard Lyon., Villeurbanne, France

P004

Activity-dependent regulation of translation in olfactory sensory neurons of naris-occluded mice

Devendra Kumar Maurya, Staffan Bohm

Department of Molecular Biology, Umea University, Sweden, Umea, Sweden

P005

Combining modeling approaches and *in vitro* measurements to decipher activation mechanism of olfactory receptors

J r mie Topin¹, Claire de March², J r me Golebiowski¹

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P006

Identification of structure-based driving forces of sweetness and associated off-notes.

Corinna M. Karl¹, Martin Wendelin², Dariah Lutsch³, Gerhard Schleining⁴, Klaus D rrschmid⁴, Jakob P. Ley³, Gerhard E. Krammer³, Barbara Lieder^{1,5}

¹ *Christian Doppler Laboratory for Taste Research, Vienna, Austria,* ² *Symrise Vertriebs GmbH, Vienna, Austria,* ³ *Symrise AG, Holzminden, Germany,* ⁴ *Department of Food Science and Technology, University of Natural Resources and Life Sciences (BOKU), Vienna, Austria,* ⁵ *Department of Physiological Chemistry University of Vienna, Vienna, Austria*

P007

Influence of SNPs within the human TAS2R genes on the affinity of bitter taste receptors to ligands: in silico study

Varuzhan Sarkisyan, Yuliya Frolova, Yuliya Sidorova, Roman Sobolev, Alla Kochetkova

Federal Research Center of Nutrition, Biotechnology and Food Safety, Laboratory of Food biotechnology and Foods for Special Dietary Uses., Moscow, Russia

P008

Expression of the G protein-coupled odorant receptors

Claire de March¹, Kentaro Ikegami², Maira H. Nagai¹, Soumadwip Ghosh³, Yosuke Fukutani², Nagarajan Vaidehi³, Masafumi Yohda², Hiroaki Matsunami¹

¹ *Duke University, Durham, United States,* ² *Tokyo University of Agriculture and Technology, Tokyo, Japan,* ³ *City of Hope, Duarte, United States*

P009

What can mayflies tell us about the origin of smell?

Sridevi Bhamidipati^{1,2}, Melissa Jordan², Michael Thoma², Amali Thrimawithana², Thomas Buckley^{1,3}, Richard Newcomb^{1,2}

¹ *School of Biological Sciences, University of Auckland, Auckland, New Zealand,* ² *The New Zealand Institute for Plant & Food Research Limited, Auckland, New Zealand,* ³ *Landcare Research, Auckland, New Zealand*

P010

Towards musky odors: discovery of a new broadly tuned human musk receptor

Sandra Huysseune, Melodie Locrel, Alex Veithen, Magali Philippeau, Yannick Quesnel

ChemCom s.a., Brussels, Belgium

P011

Sequence analysis and multi-template threading of cat vomeronasal type-1 receptor with an evaluation of feline semiochemical interactions using virtual screening

Rajesh Durairaj, Cécile Bienboire-Frosini, Alessandro Cozzi, Patrick Pageat
IRSEA, Research Institute in Semiochemistry and Applied Ethology, Quartier Salignan, APT, France

P012

Structural phylogeny of G protein coupled odorant receptors.

Jody Pacalon¹, Jérémie Topin¹, Jérôme Golebiowski^{1,2}

¹ *Institute of Chemistry - Nice (ICN), UMR 7272 CNRS – Université Côte d'Azur, Nice, France,* ² *Department of Brain & Cognitive Sciences DGIST 333, Techno JungAng Daero, HyeongPoong Myeon, Dalsung Gun, Daegu R.O.Korea, Daegu, Korea, Republic of (South)*

P013

Characterization of the trigeminal/olfactory interaction in the main olfactory epithelium.

Federica Genovese, Marco Tizzano, Johannes Reisert
Monell Chemical Senses Center, Philadelphia, United States

P014

Feline taste cell lines: a promising tool for palatability investigation in cats

Christiane Gras², Emilie Leclerc¹, Isabelle Guiller¹, Michael Krohn², Aurelie de Ratuld¹

¹ *DIANA Petfood, ELVEN, France,* ² *BRAIN AG, Zwingenberg, Germany*

P015

Uncovering long non-coding RNAs in the olfactory sensory organs

Thiago Nakahara^{1,3}, Antonio Camargo^{1,2}, Luiz Firmino³, Paulo Netto^{1,2}, João do Nascimento³, Elisa Donnard⁴, Pedro Galante⁴, Marcelo Carazzolle¹, Bettina Malnic³, Fabio Papes¹

¹ Department of Genetics and Evolution, Institute of Biology, University of Campinas, Brazil, Campinas, Brazil, ² Graduate Program in Genetics and Molecular Biology, Institute of Biology, University of Campinas, Brazil, Campinas, Brazil, ³ Department of Biochemistry, Institute of Chemistry, University of Sao Paulo, Brazil, Sao Paulo, Brazil, ⁴ Molecular Oncology Center, Hospital Sirio-Libanes, Brazil, Sao Paulo, Brazil

P016

Engineering the full sequence space of the sweet-tasting protein brazzein

Katja Riedel¹, Fabrice Neiers², Christine Belloir², Isabell Geistler-Al-Madani¹, Silke Meinecke¹, Nicolas Poirier², Christian Naumer¹, Loïc Briand², Michael Krohn¹

¹ BRAIN AG, Zwingenberg, Germany, ² Centre des Sciences du Goût et de l'Alimentation, INRA, CNRS, Dijon, France

P017

Currents induced by the TMEM16A calcium-activated chloride channel in supporting cells of the mouse olfactory epithelium

Tiago Henriques¹, Emilio Agostinelli¹, Andres Hernandez-Clavijo¹, Devendra Kumar Maurya¹, Jason R. Rock², Brian D. Harfe³, Anna Menini¹, Simone Pifferi¹

¹ Neurobiology Group, SISSA, International School for Advanced Studies, Trieste, Italy, ² Center for Regenerative Medicine, Boston University School of Medicine, Boston, United States, ³ Department of Molecular Genetics and Microbiology Genetics Institute, University of Florida, College of Medicine, Gainesville, United States

P018

Purification and crystallization of taste modifier protein

Asuka Ichikawa, Satoru Yamaguchi

Faculty of Science, Department of Science, Okayama University of Science, 1-1 Ridai cho, Kita-ku, Okayam, Japan

P019

Bitter taste 2 receptor member 14: novel agonists and combinations with chemotherapeutic agents with relevance for pancreatic cancer

Lior Peri¹, Einav Malach¹, Matthias Gaida², Masha Niv¹

¹ *The Institute of Biochemistry, Food Science and Nutrition Robert H. Smith Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Rehovot, Israel, Rehovot, Israel,* ² *Institute of Pathology, University Hospital Heidelberg, Heidelberg, Germany, Heidelberg, Germany*

P020

Biosensors using odorant binding proteins from *Bombyx mori*

Krishna Persaud¹, Elena Tuccori²

¹ *School of Chemical Engineering and Analytical Science, The University of Manchester, Manchester, United Kingdom,* ² *Pall Medical, Manchester, United Kingdom*

P021

A *trip* in voice phytotherapy: TRPA1 ion channel as a target for bioactive compounds in herbal remedies for voice care

Angela Bassoli¹, Gigliola Borgonovo¹, Alessia Cassanelli¹, Enrico Banfi², Orietta Calcinoni³

¹ *University of Milan -Department of Food, Environmental and Nutritional Sciences, Milano, Italy,* ² *Museum of Natural History, Dept. of Botany, Milano, Italy,* ³ *ENT, Phoniatician, Voice and Music Professionals' Care Team, Milano, Italy*

P022

Cell mediated neural protection in olfactory neuroepithelium of fish

Subrata De, Swaraj Sarkar, Shreya Jana, Swasti Barman, Shamim Hossin

Department of Zoology, Vidyasagar University, Midnapore (West) – 721102, West Bengal, India, midnapore, India

P023

Identification of antagonists of OR7D4 that neutralize the perception of androstenone.

Alex Veithen, Magali Philippeau, Sandra Huysseune, Yannick Quesnel

ChemCom s.a., Brussels, Belgium

P024

Characterization of rat glutathione transferases in olfactory mucus and epithelium

Jean-Marie Heydel, Franck Menetrier, Christine Belloir, Philippe Faure, Evelyne Chavanne, Marie-Chantal Canivenc-Lavier, Loïc Briand, Fabrice Neiers
CSGA, Laboratory of taste and olfaction: from the molecule to behavior. University Bourgogne Franche-Comté, INRA, CNRS, France, DIJON, France

P025

Molecular mechanisms of insect olfaction in the pea aphid, *Acyrtosiphon pisum*

Cassie Sims^{1,2}, David Withall¹, Neil Oldham², Robert Stockman², Mike Birkett¹
¹ Biointeractions & Crop Protection Department, Rothamsted Research, Harpenden, Harpenden, United Kingdom, ² School of Chemistry, University of Nottingham, Nottingham, United Kingdom

P026

Rapid de- and regeneration of the zebrafish olfactory epithelium after acute chemical injury

Yigit Kocagöz, Kardelen Guler, Stefan Fuss
Bogazici University, Molecular Biology and Genetics, Istanbul, Turkey

P027

Characterization of olfactory epithelium function in two stomatin knock out models

Kevin Y. Gonzalez-Velandia¹, Devendra Kumar Maurya¹, Christiane Wetzel², Valérie Bégay², Gary R Lewin², Anna Menini¹, Simone Pifferi¹
¹ Neurobiology Group, SISSA, International School for Advanced Studies, Trieste, Italy, ² Department of Neuroscience, Max Delbrück Center for Molecular Medicine, Berlin, Germany

P028

Differences in bitter taste perception and TAS2R38 gene expression in obese vs lean subjects

Antonietta Robino¹, Pablo J Giraudi², Pio Corleone³, Martina Guerra³, Paolo Gasparini^{1,3}, Nicolás de Manzini³, Claudio Tiribelli², Natalia Rosso², Silvia Palmisano³
¹ Institute for Maternal and Child Health - IRCCS "Burlo Garofolo, Trieste, Italy, ² Fondazione Italiana Fegato – ONLUS Area Science Park Basovizza, Trieste, Italy, ³ Department of Medical, Surgical and Health Sciences, General Surgery Clinic, University Hospital of Trieste, Trieste, Italy

P029

The other side of the moon: bitter taste receptors activated by vanillin and capsaicin

Gabriella Morini¹, Marcel Winnig^{2,3}, Timo Vennegeerts^{2,3}, Gigliola Borgonovo⁴, Angela Bassoli⁴

¹ University of Gastronomic Sciences, Pollenzo, Bra (CN), Italy, ² IMAX Discovery GmbH, Dortmund, Germany, ³ Axxam S.p.A., Bresso (MI), Italy, ⁴ DeFENS – Department of Food, Environmental and Nutritional Sciences, University of Milan, Milan, Italy

P030

Molecular insights into the structure-function relationships of bitter taste receptors

Cédric Bouysset¹, Jérémie Topin¹, Yi Wang², Peihua Jiang², Jérôme Golebiowski^{1,3}, Serge Antonczak¹, Sébastien Fiorucci¹

¹ Institut de Chimie de Nice, Université Côte d'Azur, CNRS UMR7272, Nice, France, ² Monell Chemical Senses Center, Philadelphia, United States, ³ Department of Brain and Cognitive Sciences, DGIST, Daegu, Korea, Republic of (South)

P031

Role of six1 in a human ipsc derived olfactory placode

Karl Georg Simon Frey, Moritz Klingenstein, Stefanie Klingenstein, Stefan Liebau
Institute for Neuroanatomy and Developmental Biology, Tübingen, Germany

P032

Characterization of skatole induced signal transduction pathway in cultured human fungiform taste (HBO) cells

Mehmet Ozdener

Monell Chemical Senses Center, Philadelphia, United States

P033

Recordings of electro-olfactograms from the human olfactory epithelium in response to HLA-related peptides

Marie-Elisabeth Krause, Thomas Hummel

Smell & Taste Clinic, Department of ORL, Dresden, Germany

P034

Human olfactory mucosa characterization in nasal brushing samples

Lorenzo Brozzetti¹, Maria Paola Cecchini², Luca Sacchetto³, Marcus Frank⁴, Salvatore Monaco¹, Mario Buffelli⁵, Martin Witt⁶, Gianluigi Zanusso¹

¹ Department of Neurological and Movement Sciences, Neuropathology Section, University of Verona, Verona, Italy, ² Department of Neurological and Movement Sciences, Anatomy Section, University of Verona, Verona, Italy, ³ Department of Surgery, Dentistry, Pediatrics and Gynecology, Otolaryngology Section, University of Verona, Verona, Italy, ⁴ Medical Biology and Electron Microscopy Center, Rostock University Medical Center, Rostock, Germany, ⁵ Department of Neurological and Movement Sciences, Physiology Section, University of Verona, Verona, Italy, ⁶ Department of Anatomy, Rostock University Medical Center, Rostock, Germany

P035

DeepFragrance a peek into the olfactory chemical space

Ritesh Kumar^{1,2}, Michael Schmuker³

¹ Royal Society-Newton International Fellow, Biocomputation Group, University of Hertfordshire, Hatfield, United Kingdom, ² CSIR-Central Scientific Instruments Organisation, Chandigarh, India, ³ Reader in Data Science, Biocomputation Group, University of Hertfordshire, Hatfield, United Kingdom

P036

L-Arginine and L-Isoleucine interactions with bitter taste receptor T2R1 and relevance for gastric acid secretion

Verena Stoeger², Tamir Dingjan³, Yaron Ben-Shoshan-Galeczki³, Joachim Hans⁴, Jakob Ley⁴, Gerhard Krammer⁴, Masha Niv³, Veronika Somoza^{1,2}

¹ Department of Physiological Chemistry, University of Vienna, Althanstrasse 14 (UZA II), Vienna, Austria, ² Christian Doppler Laboratory for Bioactive Aroma Compounds, Althanstrasse 14 (UZA II), Vienna, Austria, ³ Institute of Biochemistry, Food Science and Nutrition, The Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, P.O.Box 12, Rehovot, Israel, ⁴ Symrise AG, Research & Technology Flavors Division, P.O. Box 1253, Holzminden, Germany

P037

Odorant perspectives and computational drug-design notions to elucidate olfactory-receptor (OR) odorant interactions

Chiquito Crasto, Anuththara Lokubandara, Vasanth Mandla
Texas Tech University, Lubbock, United States

P038

Hetero-oligomerization and functional crosstalk between bitter taste and calcium-sensing receptors

Seiji Kitajima^{1,2}, Yutaka Maruyama¹, Kristina Lossow^{2,3}, Maik Behrens^{2,4}, Wolfgang Meyerhof^{2,5}

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New natural agonists of TRPV4: alpha and gamma-mangostin from mangosteen fruit

Susana Camacho, Coline Legrand, Stéphanie Michlig
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Optimized vector for functional expression of the human bitter taste receptor TAS2R14 in HEK293 cells

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Taste and Olfaction: central mechanisms

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Physical trauma alters the mice volatile urine odor

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Female mouse tears contain an anti-aggression pheromone

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Effects of odors from natural predators occupying different ecological niches on reproduction of sympatric Norway rats

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Sensory experience-dependent transcription factor Npas4 and its downstream target play a crucial role in neuronal survival after ischemic stroke

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Olfactory deprivation induces changes in the olfactory system resulting in increased piriform cortex synaptic plasticity in vivo

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A subset of mitral cells is capable of broadcasting social signals throughout the olfactory mantle

Slater Sharp, Taralyn Tan, Kristen Drummey, Sandeep Datta
Harvard Medical School, Boston, United States

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Impact of odorant compounds on dog's food choice

Cécile Pétel, Céline Baron, Laurence Callejon
SPF, Elven, France

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Brain metabolic activity associated with taste familiarity in rats

Sergio Menchén ¹, María Banqueri ^{2,3}, Beatriz Gómez-Chacón ⁴, Jorge Arias ^{2,3},
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Analysis of AOB responses to inbred and wild mouse stimuli – stable representations across genetically distinct stimulus donors and subjects.

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Multiple network properties overcome random connectivity to enable stereotypic olfactory responses

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Development and characterization of a new transgenic mice line expressing a mitochondrial Cameleon probe for real-time calcium imaging

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Odorant map restoration in the larval *Xenopus* brain after olfactory nerve transection and recovery of behavioral responses to odorant stimuli

Sara Joy Hawkins, Yvonne Gaertner, Lukas Weiss, Thomas Offner, Thomas Hassenkloeber, Ivan Manzini

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Investigators elucidate the mechanism behind olfactory training and glomerular phenotype pattern formation

Nathalee Belser, Naihua Gong, Hiroaki Matsunami

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Diana Heimes, Carsten Holzmann, Oliver Schmitt, Andreas Wree, Martin Witt

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Sudden Intrabulbar amyloid beta increase simultaneously disrupts olfactory bulb oscillations and odor detection.

Rebeca Hernandez-Soto, Keila Dara Rojas-Garcia, Fernando Peña-Ortega

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Stable neuronal representations in the accessory olfactory bulb following mating

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Normalization plays a minor role in integration of mixture components in piriform cortex

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Cortical processing of configurally perceived odor mixtures

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Influence of model hepatocarcinoma development time on sick animals' detection by dogs and laser mass spectrometer

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P060

Male axillary secretions affect saliva LH in women depending on the phase of their menstrual cycle

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Taste sensitivity of North Korean refugees settled in South Korea

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Incongruent odors suppress perceptual categorization of visual objects

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Exploration of brain regions relevant to sweet–sour taste interactions using fMRI

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Role of smell and taste sensitivity in the perception of the aroma of coffee

Giorgia Sollai, Iole Tomassini Barbarossa, Roberto Crnjar

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What makes a chemosensory dreamer? Occurrence of olfactory and gustatory content in laboratory dreams

Lenka Martinec Novakova, Eva Miletinova, Monika Klikova, Jitka Buskova

National Institute of Mental Health, Klecany, Czech Republic

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Do verbal object cues similarly shape integration of olfactory and visual targets?

Stephen Pierzchajlo, Teodor Jernsäther-Ohlsson, Jonas Olofsson
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Body mass index-associated changes in sensory discrimination for sweet-fat food

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The semantic organization of the English odor vocabulary

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Elmeri Syrjänen, Marta Zakrzewska, Jonas, K. Olofsson
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The impact of successful treatment of burning mouth syndrome on taste

Nan Su¹, Renee Poon¹, Cindy Liu¹, Cystal Dewan¹, Mark Darling², Miriam Grushka^{1,3}
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Chemical-neuromorphic applied to artificial advanced communication interface: social odor can create a mismatch with voice's gender

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Olfactory sensitivity towards threatening smell in blind and deaf adults

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Essential oil fragrances positively affect menopausal depressive and anxiety symptoms: An EEG study for mid-life women

Sun Ae Moon¹, Jisub Bae¹, Kwangsu Kim¹, Si Young Cho², Gusang Kwon², Ran Lee², SeungHo Ko², Soyeon Lim²

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Investigating the olfactomotor role of medial and central subdivisions of the human amygdala

Torben Noto, Guangyu Zhou, Greg Lane, Christina Zelano

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Deterioration of physiological sleep quality by a mild orange aroma

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A scent to forget: directed forgetting in the context of odor cues

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The hedonics of olfactory induced memories – a new model for the analyses of emotional blunting

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Olfactory dysfunction from acute upper respiratory infections: relationship to season of onset

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Clinical validation of the olfactory detection threshold module of the Snap & Sniff® olfactory test system

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Parkinson's disease and chemosensory function: the relation with mild cognitive impairment and the single cognitive domain dysfunction

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Progressive signaling changes in the olfactory nerve of patients with Alzheimer's disease

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Feeling good, smelling better? What odour discrimination does and does not have to do with social network size and happiness

Tobias C. A. Blum, Bettina M. Pause

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Odour memory performance is related to the quality of early memories in older adults

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A hybrid digital/physical platform for olfactory assessment and training in non-laboratory settings

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Faster olfactory adaptation in patients with olfactory deficits: an analysis of results from odor threshold testing

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Self-reported Mini Olfactory Questionnaire (Self-MOQ): a simple and useful measurement for the screening of olfactory dysfunction

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Development of a questionnaire to identify the olfactory memories of a population sample

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Correlation between body mass index, olfactory and gustatory function

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