Report July – September 2020; Smell & Taste

Peer-reviewed Original Publications


Other publications (Chapters, peer-reviewed reviews, letters)


Guests / Personnel
- Dr. Serge Le Bon, from the Department of Otorhinolaryngology at the St. Peter’s Hospital, Brussels, visits from August 2 to 3, 2020
- Oshin Behl, M.D., from Pune, Maharashtra, India, starts her one-year visit as Kosing-fellow on the 1st of August 2020
- Dr. Lavinia Alberi, Lead of Neurology Research, Swiss Integrative Center for Human Health SA, CH-1700 Fribourg, Switzerland, https://www.sichh.ch/about-us/team/lavinia-alberi-auber, visits from September 1st to September 30th
- Dr. Andreas Steenholt-Niklassen from the Department of Otorhinolaryngology at Aarhus University, Denmark, visits form the 15th of September to the 15th of October

Grants/Awards
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Thesis
- 18.8.2020: Baronesse Dorothée Renata von Koskull (Dr. med.): Verlaufsbeobachtung von Patienten mit idiopathischen Schmeckstörungen
- 18.8.2020: Lisa-Marie Sparing-Paschke (Dr. med.): Einfluss kognitiver Parameter auf die Geruchstestung im Kindes- und Jugendalter
- 1.9.2020: Patrick Fuchß (Dr. med.), Einfluss einer perioperativen Heparingabe auf das Riechvermögen
- 8.9.2020: Elisa Lippmann (Dr. med.): Verbesserung und Erweiterung bereits vorhandener Riech- und Schmecktests
- 08.09.2020: Dorothea Kretschmann (Dr. med.): Wirkung der Akupunktur bei der nichtallergisches Rhinitis

Courses, Presentations etc.:
- Antje Hähner: 8th of July 2020: Schmerzambulanz der TU Dresden: Dresdner Kinderkopfschmerzprogramm – „Riechen und Schmerz“.
- Thomas Hummel, 10th of September: Mumbai, India, NBE Webinar in speciality of Otorhinolaryngology: “Diagnosis and Therapy of Olfactory Loss”
### Journals Clubs April to June 2020!

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Coralie Mignot | Electrophysiological correlates of top-down attentional modulation in olfaction | 02.06.2020
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Yunpeng Zang | Nasal obstruction and smell impairment in nasal polyp disease: correlation between objective and subjective parameters | 02.06.2020
Divesh Thaploo | Alteration of diffusion-tensor MRI measures in brain regions involved in early stages of Parkinson’s disease | 04.06.2020
Hanani Abdul Manan | Unusual olfactory perception during radiation sessions for primary brain tumors: a retrospective study | 09.06.2020
Yunmeng Zhu | How cognition modulates affective responses to taste and flavor: top-down influences on the orbitofrontal and pregenual cingulate cortices | 09.06.2020
Agnieszka Sabiniewicz | Interspecies transmission of emotional information via chemosignals: from humans to dogs (Canis lupus familiaris) | 09.06.2020
Akshita Joshi | Plasticity in olfactory bulb circuits | 11.06.2020
Yunmeng Zhu | How cognition modulates affective responses to taste and flavor: top-down influences on the orbitofrontal and pregenual cingulate cortices | 11.06.2020
Yunpeng Zang | Evaluation of Olfactory sensation, acoustic rhinometry and quality of life of the patients with nasal septal deviation | 16.06.2020
Nunzia Papotto | Modulation of trigeminal activity by olfactory stimuli | 25.06.2020
Agnieszka Sabiniewicz | Inter- and intra-species communication of emotion: chemosignals as the neglected medium | 30.06.2020
Akshita Joshi | Verbal suggestions of nicotine content modulate ventral tegmental neural activity during the presentation of nicotine free odor in cigarette smokers | 02.07.2020
Yunmeng Zhu | Age differences in the brain mechanisms of good taste | 02.07.2020
Yan Xiaoguang | MR findings in COVID 19 associated olfactory loss | 14.07.2020

- **Moa Peter** from Karolinska, Stockholm, presents on the 290th of September on her paper on “Normal Olfactory Functional Connectivity Despite Lifelong Absence of Olfactory Experiences”, Cerebral Cortex, 2020.

Presentations at ISOT 2020, August 4-7 2020

- **DECREASED TASTE THRESHOLDS IN THE PRESENCE OF LOW CONCENTRATIONS OF CAPSAICIN**
  Thomas Hummel¹, Lea Mueller¹, Pengfei Han², ‘Smell & Taste Clinic, Dept of ORL, TU Dresden, Dresden Germany ¹Faculty of Psychology, Southwest University, Chongqing China

- **GREATER HIPPOCAMPAL GRAY MATTER VOLUME IN SUBJECTIVE HYPEROSMIA: A VOXEL - BASED MORPHOMETRY STUDY**
  Pengfei Han¹,²,³, Franz Stiller-Stut¹, Alexander Fjaeldstad⁴,⁵, Thomas Hummel¹. ‘Interdisciplinary Center Smell and Taste, Department of Otorhinolaryngology, Dresden Germany ¹Faculty of Psychology, Southwest University, Chongqing China ²Key Laboratory of Cognition and Personality (Southwest University), Ministry of Education, Chongqing China ³Flavour Institute, Aarhus University, Aarhus Denmark ⁴Flavour Clinic, Department of Otorhinolaryngology, Holstebro Denmark

- **TASTE LOSS AFFECTS LINGUAL MECHANOSENSITIVITY**
  Jule/A Reinhard¹, Antje Haehner¹, Chris/T Simons², Thomas Hummel¹. ‘smell and taste clinic, department of otorhinolaryngology, TU Dresden, Dresden Germany ²CFAES Department of Food Science & Technology, Columbus United States
• **WHITE MATTER NETWORK ABNORMALITIES IN PATIENTS WITH ANOSMIA**  
Divesh Thaploo, Ben Chen, Akshita Joshi, Thomas Hummel.  
Department of Otorhinolaryngology, TU, Dresden Germany  
Department of Psychiatry, The Affiliated Brain Hospital of Guangzhou Medical University (Guangzhou Huai Hospital), Guangzhou China

• **BRAIN-BEHAVIOR ASSOCIATIONS OF POST-TRAUMATIC OLFACTORY LOSS**  
Michael C. Farruggia, Maria G. Veldhuizen, Robert Pellegrino, Dana M. Small, Thomas Hummel.  
Interdepartmental Neuroscience Program, Yale University, New Haven United States  
Department of Psychiatry, Yale University School of Medicine, New Haven United States  
Smell & Taste Clinic, Department of Otorhinolaryngology, TU Dresden, Dresden Germany  
Department of Psychology, Yale University, New Haven United States  
MEG Center, University of Tübingen, Tübingen Germany  
Department of Food Science, Institute of Agriculture, University of Tennessee, Knoxville United States

• **SELF-ASSESSMENT OF OLFACTORY FUNCTION USING THE "SNIFFIN' STICKS"**  
Marie Klockow, Theresa Lakner, Philipp Nahrath, Mandy Cuevas, Antje Haehner, Thomas Hummel.  
Smell & Taste Clinic, Dept. of ORL, TU Dresden, Dresden Germany

• **VERBAL SUGGESTIONS OF NICOTINE CONTENT MODULATE VENTRAL TEGMENTAL NEURAL ACTIVITY DURING A NICOTINE-FREE ODOR PRESENTATION IN CIGARETTE SMOKERS**  
Akshita Joshi, Vanda Faria, Pengfei Han, Paul Enck, Thomas Hummel.  
Smell & Taste Clinic, Department of Otorhinolaryngology, TU Dresden, Dresden Germany  
Center for pain and the brain, Department of Anesthesiology, Perioperative and Pain Medicine, Boston Children’s Hospital, Harvard Medical School, Boston United States  
Key Laboratory of Cognition and Personality (Ministry of Education), Southwest University, Chongqing China  
Faculty of psychology, Southwest University Chongqing China  
Department of Internal Medicine VI: Psychosomatic Medicine and Psychotherapy, Tuebingen Germany

Presentations at the Annual conference of the European Chemoreception Research Organization (online) on September 17 and 18

• Coralie Mignot, Older and younger people experience similar long-term olfactory habituation.
• Laiquan Zou, Association between olfactory function and quality of life in patients with olfactory disorders: a multicenter study.
• Akshita Joshi, A novel technique for olfactory bulb measurements.
• Xiaoguang Yan, The shape of the olfactory bulb is related to olfactory function.
• Marylou Mantel, Modeling the subjectivity of human olfaction: An integrated approach.
• Antonia Gillmeister, Olfactory training in specific anosmia: association with genetic variations of OR7D4.
• Michal Pieniak, Olfactory training with Aromastics – olfactory and cognitive effects.
• Yunpeng Zang, Brain response to odor stimulus in different delivery conditions: an fMRI study.
• Divesh Thaploo, Progression of PD is reflected by white matter changes in olfactory areas – a pilot study.
• Anna Oleszkiewicz, Beyond olfaction: beneficial effects of olfactory training in older subjects extend to dementia and cognitive assessment.
• Oshin Behl, Olfaction in children in different age groups
• Ayaho Yoshino, A Novel Approach for Assessment of Retronasal Odor thresholds
Conferences

- Thomas Hummel: Online presentation on the 4th of August at Mahidol University, Malaysia
- Thomas Hummel: Online presentation on the 4th of August at **ABSCEHT, UK**
- Thomas Hummel: Online presentation on the 12th of August at Nasano, Italy

- **ECRO Satellite symposium Perceptronics** (in person and online), organized together with Gianaurelio Cuniberti, Alexander Croy, Ilona Croy, on the 15th and 16th of September 2020
- **Annual conference of the European Chemoreception Research Organization** (online), with Ivan Manizini, Silke Sachse, Veronica Egger, Moustafa Bensafi, Stefan Fuss (program chair: Thomas Hummel), September 17th and 18th
- Thomas Hummel presents on the 30th of September at “**Naso Sano**” (Puya Dehgan-Mobaraki, MD) Department of Otorhinolaryngology and Head & Neck Surgery, Regional Center for Cystic Fibrosis, Gubbio-Gualdo Tadino Hospital (Italy) on “intranasal trigeminal function”
- Thomas Hummel presents on the 30th of September at “WEIL NASEN RIECHEN WOLLEN!” organized by Novartis, Nürnberg, Germany, on „Wenn die Nase versagt – Auswirkungen auf das Leben der Patienten”
What else:

- Thomas Hummel, 2.7.2020: Interview mit Klara Fröhlich, mdr Wissen: „Ich werde Feinschmeckerin“
  https://www.mdr.de/wissen/audios/index.html

- Thomas Hummel: Interview with EUFORA - Video on “Smell-related issues in relation to COVID-19”
  https://www.youtube.com/watch?v=1tw_bhCSNME

- Tagesspiegel-Interview mit Gerlinde Felix am 10.8.2020: SARS CoV2 lässt Geruchsvermögen vorzeitig altern

- Thomas Hummel, 19th of Aug 2020 - Interview with Sally Abrahams, from BBC: The Compass
  – The Senses: Smell and taste

- Thomas Hummel, 19th of Aug 2020 – Interview mit Bild der Wissenschaft zum Thema Riechverlust