

Report October – December 2018; Smell & Taste

Peer-reviewed Original Publications

- Aiello M, Parma V, De Carlo S, Hummel T, Rumiati RI (2018) Cognitive, Olfactory, and Affective Determinants of Body Weight in Aging Individuals. *Arch Clin Neuropsychol*, Oct 1.
- Whitcroft KL, Fischer J, Han P, Raue C, Bensafi M, Gudziol V, Andrews P, Hummel T (2018) Structural plasticity of the primary and secondary olfactory cortices: increased grey matter volume following surgical treatment for chronic rhinosinusitis. *Neuroscience* (in press)
- Croy I, Mohr T, Weidner K, Hummel T, Junge-Hoffmeister J (2018) Mother-child bonding is associated with body odor perception. *Physiol Behav* (in press)
- Rottstaedt F, Weidner K, Hummel T, Croy I (2018) Pre-aging of the olfactory bulb in major depression with high comorbidity of mental disorders. *Frontiers Aging Neurosci* (in press)
- Sorokowska A, Pietrowski D, Donner L, Kromer J, Schmidt AH, Sauter J, Hummel T, Croy I (2018) Human Leukocyte Antigen similarity decreases partners' and strangers' body odor attractiveness for women not using hormonal contraception. *Horm Behav* (in press)
- Poletti SC, Hausold J, Herrmann A, Witt M, Hummel T (2018) Topographical distribution of trigeminal receptor expression in the nasal cavity. *Rhinology* (in press)
- Haehner A, Masala C, Walter S, Reichmann H, Hummel T (2018) Incidence of Parkinson's disease in a large patient cohort diagnosed with idiopathic smell and taste loss. *J Neurol* (in press)
- Han P, Fark T, de Wijk R, Roudnitzky N, Iannilli E, Seo HS, and Hummel T (2018) Modulation of sensory perception of cheese attributes intensity and texture liking via ortho- and retro-nasal odors. *J Food Qual Pref* (in press)
- Menzel S, Hummel T, Donner L, Hummel C, Croy I (2018) Olfactory change detection. *Biol Psychol* (in press)
- Pengfei H, Hummel T, Raue C, Croy I (2018) Olfactory loss is associated with reduced hippocampal activation in response to emotional pictures. *Neuroimage* (in press)
- Melis M, Grzeschuchna L, Sollai G, Hummel T, Tomassini Barbarossa I, (2018) Taste disorders are partly genetically determined: role of TAS2R38 gene, a pilot study. *Laryngoscope* (in press)
- Guducu C, Olca OB, Donner L, Aziz M, Schriever VA, Ozgoren M, Hummel T (2018) Separating Normosmic and Anosmic Patients Based on Entropy Evaluation of Olfactory Event-Related Potentials. *Brain Res* (in press)
- Oleszkiewicz, A., Schriever V.A., Croy I., Hähner A., Hummel T (2018) Updated Sniffin' Sticks normative data based on an extended sample of 9139 subjects. *Eur Arch ORL* (in press)
- Sorokowski, P., Puts, D., Johnson, J., Oleszkiewicz, A., Sorokowska, A., Kowal, M., Borkowska, B & Pisanski, K. (2018). Voice of authority: Professionals lower their vocal frequencies when giving expert advice. *J Nonverbal Behav* (in press)
- Pisanski, K., Oleszkiewicz, A., Plachetka, J., Gmiterek, M., Reby, D. (2018) Voice pitch modulation in human mate choice. *Proceedings of the Royal Society B: Biol Sci* (in press)
- Malecki, W., Pawlowski, B., Sorokowski, P., Oleszkiewicz A. (2018) Feeling for textual animals: Narrative empathy across species lines. *Poetics* (in press)
- Schäfer L, Walliczek-Dworschak U, Mehler L, Hähner A, Hummel T, Croy I (2018) Sexual Desire after Olfactory Loss: Quantitative and Qualitative Reports of Patients with Smell Disorders. *Physiol Behav* (in press)
-

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

- Lötsch J, Kringel D, Hummel T (2018) Machine learning in human olfactory research. Chem Senses (in press)
- Poletti SC, Brusis T, Hummel T (2018) Aus der Gutachtenpraxis: Die Bedeutung der Bulbusvolumetrie für die Begutachtung von Riechstörungen. Laryngo-Rhino-Otol 2018; 97: 796–798
- Huart C, Rombaux P, Hummel T (2018) Neural plasticity in developing and adult olfactory pathways - focus on the human olfactory bulb. J Bioenerget Biomembr (in press)
- Grzeschuchna L, Hummel T (2018) Frauen haben die feinere Nase. MIsericordia 12: 4-6
-

Guests

- Micol de Ruvo and Kai Laemmel, entrepreneur first (<https://www.joinef.com/>), Berlin, visit on Oct 24th, 2018
- Prof. Dr. MD, PhD. GRACIELA M. SOLER, ORL Department, Smell and Taste Sector, Hospital de Clínicas, University of Buenos Aires (UBA), Argentina, visits on Oct 26
- Marta Kowal from the Dept of Psychology, University of Wroclaw, visits on Nov 5th
- Anne Abriat from the Smell and Taste Lab, Geneve, visits on Nov 7th
- Dr. Cagdas Guducu from the University of Izmir visits from Nov 6 to Nov 16
- Prof. Supinda (ENT MD), Dr. Jessada (ENT MD), and Nattida CHOTECHUANG (ENT MD), visit from the Dept. of ORL, Bumrungrad International Hospital, 33 Sukhumvit 3 (Soi Nana Nua), Wattana, Bangkok, Thailand visit on the 28th of Nov, 2018
- Professor Dr Salina Husain (ENT, MD), from the Faculty of Medicine, National University of Malaysia (UKM), Department of Otorhinolaryngology-Head and Neck Surgery, Kuala Lumpur, MALAYSIA, visits from Dec 3-7, 2018
- Dr. Simona Negoias, HNO Klinik, Inselspital Bern, visits from Dec 10-16, 2019

Grants/Awards

- Dorothea Kretschmann: Stipendium der Freunde und Förderer der TU Dresden (Juli-Oktober) 500 Euro/Monat zur Fertigstellung der Promotion
- Anna Oleszkiewicz: Preis der Arbeitsgemeinschaft Olfaktologie / Gustologie (250 €) verliehen bei der Tagung in Basel, Dezember 2018 für die Arbeit: Normative data for the Sniffin Sticks in more than 9000 healthy subjects
- Tanja Drews: Preis der Arbeitsgemeinschaft Olfaktologie / Gustologie (250 €) verliehen bei der Tagung in Basel, Dezember 2018 für die Arbeit: Self-administration of the Sniffin Sticks odor identification test
-

Thesis

- **Gustavo Murta:** 6.11.2018: Relation between Olfactory Cleft Endoscopic Findings, Olfactory Metrics, and Quality of Life
- **Philipp Nahrath:** 6.11.2018: Kurz- und Langzeitgewöhnung an Gerüche bei jungen und älteren Erwachsenen
- **Katharina Schoen:** 4.12.2018: Gegenüberstellung von Essensdüften und Blumendüften im Hinblick auf deren Einfluß aufs mesolimbische System - eine fMRT-Studie

- **Diana Pietrowski:** 11.12.2018: Einfluss von HLA-Klasse-I-Übereinstimmungen und oralen Kontrazeptiva auf die Wahrnehmung von Körpergerüchen und die Partnerwahl
-

Courses, Presentations etc.:

- Antje Hähner: 26.9. presents on „Smell and Headache“ at the „Riechsymposium beim Dresdner Kinderkopfschmerzprogramm“ in Dresden
- Thomas Hummel, 29th of Sept 2018: Presents on *Olfactory Dysfunction* Meeting of the Dutch “[Anosmievereniging](#)” in Zeist, NL: [Reukensmaakstoornis.nl - Vriendendag 2018](#)
- Pengfei Han, presents on the 27th Sep. on “Brain imaging of olfactory dysfunction”, at the 3rd International Forum for HUASHAN Scholars, Xidian, Xian China
- [Dr. Micol de Ruvo](#) (from Olga Wudarczyk's lab) presents on Tuesday, 23rd of Oct, at 3:30 p.m., on "olfaction and neurodegenerative diseases"
- Thomas Hummel presents on the 17th of Oct at the Dept. of Psychology of the John Moores University in Liverpool on “Clinical Aspects of Smell”
- Antje Hähner with symposium “Aroma, Riechen und Schmerz“ at the 20th of Oct 2018 at the [German Pain Conference](#) in Mannheim, Germany
- Thomas Hummel, 26. Oktober 16:00 h; Senckenberg, Görlitzer Kinderakademie, Humboldthaus: Vorlesung nur für Kinder: **Weshalb ist Riechen wichtig?**

SENCKENBERG

world of biodiversity

IMMER DER NASE NACH!

Kinderakademievorlesung über das Riechen

Was meinen eigentlich die Redewendungen, dass man „jemanden nicht riechen kann“ oder „man die Nase voll hat“? Viele Sprüche und Weisheiten gibt es rund um den Geruchssinn des Menschen. Dabei ist der bei uns nicht mal besonders ausgeprägt. Zumindest im Vergleich mit Hunden oder bestimmten Schmetterlingen. Dennoch spielt das Riechen auch beim Menschen eine besondere, oft unterbewusste, Rolle. So regelt es unseren Appetit und hat Einfluss darauf was wir gerne essen, wo wir uns bevorzugt aufhalten und in wessen Nähe wir uns besonders wohlfühlen.



In der zweiten Vorlesung des aktuellen Görlitzer Kinderakademie-Semesters erklärt der Dresdner Facharzt und Professor Thomas Hummel am 26. Oktober „Warum Riechen wichtig ist“ und wie das überhaupt funktioniert und was wir alles nicht erfahren würden, könnten wir nicht riechen. Die Vorlesung richtet sich ausschließlich an Kinder im Alter zwischen acht und zwölf Jahren. Die Teilnahme an der Kinderakademie ist kostenlos. Anmeldungen sind noch telefonisch oder im Internet möglich.

26. Oktober 16:00 | Görlitzer Kinderakademie | Humboldthaus, Platz des 17. Juni 2

Weshalb ist Riechen wichtig?

Vorlesung nur für Kinder von Prof. Dr. med. Thomas Hummel, Technische Universität Dresden, Klinik und Poliklinik für Hals-, Nasen- und Ohrenheilkunde

Anmeldung: [03581 – 47 60 52 20](tel:03581-47605220) oder [hier](#).

-
- Prof. Dr. MD, PhD. **GRACIELA M. SOLER**, ORL Department, Smell and Taste Sector, Hospital de Clínicas, University of Buenos Aires (UBA), Argentina, visits on Oct 26, and presents a talk on "[Smell disorders: the value of the personal interview for a better evaluation of the patient. My personal experience](#)",

- Thomas Hummel presents on “Therapy of olfactory dysfunction” at the Monell Chemical Senses meeting “[New Scientific and Patient-Focused Conference to Address Treatments for Taste and Smell Disorders](#)”, Philadelphia, Nov 14-15, 2018
- Thomas Hummel presents on “Smell and taste in health and disease – an overview” and “Clinical aspect of taste disorders” at the 30th of November, 2018, at the [Rhinoforum](#) 2018 in Warsaw
- Antje Haehner presents on “Olfactory function in aging and neurodegenerative disorders” at the 30th of November, 2018, at the [Rhinoforum](#) 2018 in Warsaw
- **Ann Kathrin Schulz**: 5.12.2018: journal club: Gomez Galarce M, Yanez-Siller JC, Carrau RL, Montaser A, Lima LR, Servian D, Otto BA, Prevedello DM, Naudy CA: Endonasal anatomy of the olfactory neural network: Surgical implications. Laryngoscope 2018.
- **Dr Salina Husain** (ENT, MD), from the Faculty of Medicine, National University of Malaysia (UKM), Department of Otorhinolaryngology-Head and Neck Surgery, Kuala Lumpur, MALAYSIA: : 5.12.2018: Adaptation of the Sniffin Sticks to Malaysia
- **Dr. Ben Chen**: : 5.12.2018: Dept. of Psychiatry, Guangzhou, VR China: Olfactory markers of MCI
- Guducu C, Olca OB, Donner L, Aziz M, Schriever VA, Ozgoren M, Hummel T (2018) Separating Normosmic and Anosmic Patients Based on Entropy Evaluation of Olfactory Event-Related Potentials. Brain Res (in press)
- December Meeting on "Smell and Taste" supported by the Working Group on Olfaction and Gustation of the German ENT society, 7./8. December 2018 in Bern. The following presentations came from the Dresden group (or authors from Dresden were part of the study):
 - **Anna Oleszkiewicz**: Normative data for the Sniffin Sticks in more than 9000 healthy subjects
 - **Tanja Drews**: Self-administration of the Sniffin Sticks odor identification test
 - **Lisa Grzeschuchna**: Electrophysiological correlates of gustatory activation in patients with taste disturbance
 - **Raffaela Fürer**: Central-nervous processing of salty taste induced by NaCl or KCl
 - **Antje Hähner**: Mutation in Nav1.7 causes high olfactory sensitivity
 - **Akshita Joshi**: Brain activation to chemosensory stimulation in patients with congenital anosmia
 - **Kyri Lindner**: Cognitive function in patients with trauma-related olfactory loss
 - **Sophia Poletti**: Distribution of trigeminal receptors in the nasal respiratory epithelium
 - **Georg Lober**: Trigeminal activation in patients with allergic rhinitis and chronic rhinosinusitis
 - **Carla Masala**: Correlation between nasal anatomy and olfactory function
 - **Yunpeng Zang**: Influence of olfactory dysfunction on food sense of perception
 - **Corinne Hasler**: Olfactory function during the course of idiopathic Parkinson’s disease

What else:

- Thomas Hummel, Oct 5-6: Visit at the Dept. of ORL in Aarhus, participation in project presentations as member of consulting committee of the [Flavor Institute](#)
- Friday, 19th of October: presentations to a group of ENT surgeons from the NL:

- Thomas Hummel : general introduction to the chemical senses
- Theresa Herrmann: Depression and olfactory function
- Akshita Yohi: congenital anosmia
- Pengfei Han: imaging and the chemical senses
- Lisa Grzeschuchna - Taste strips, taste Sprays, electrogustometry, saliva, papillae counting
- Georg Lober - Event-related potentials, peripheral recordings
- Akshita Joshi - Sniffin sticks, UPSIT, retronasal test
- Theresa Herrmann - Olfactory bulb volume



- Thursday, 8th of Nov - Thomas Hummel: Interview with Marijke Peters for the BBC radio programme CrowdScience: **Do you smell what I smell?**
<https://www.bbc.co.uk/programmes/w3cswvxk>
- Video on BBC WORLD SERVICE: **Is there a cure for loss of smell?**
<https://www.facebook.com/bbcworldservice/videos/1940262529616214/>
- Cornelia Hummel retires in the 18th of Dec, 2018
-