

Report October – December 2019; Smell & Taste

Peer-reviewed Original Publications

- Zou L, Linden L, Cuevas M, Metasch ML, Welge-Lüssen A, Hähner A, Hummel T (2019) Self-reported Mini Olfactory Questionnaire (Self-MOQ): a simple and useful measurement for the screening of olfactory dysfunction. *Laryngoscope* (in press)
- Oleszkiewicz A, Kunkel F, Larsson M, Hummel T (2019) Consequences of undetected olfactory loss on human chemosensory communication and well-being. *Phil Transact B* (in press)
- Podlesek D, Zolal A, Kirsch M, Schackert G, Pinzer T, Hummel T (2019) Olfactory bulb volume changes associated with trans-sphenoidal pituitary surgery. *PLoSOne* (in press)
- Lötsch J, Haehner A, Hummel T (2019) Machine-learning-derived rules set excludes risk of Parkinson's disease in patients with olfactory or gustatory symptoms with high accuracy. *J Neurol* (in press)
- Stögbauer J, Wirkner K, Engel C, Moebus S, Pundt N, Teismann H, Löffler M, Hummel T, Beule AG, Berger K (2019) Prevalence and risk factors of smell dysfunction - a comparison between five German population-based studies. *Rhinology* (in press)
- Guarneros M, López-Rivera C, Gonsebatt ME, Alcaraz-Zubeldia M, Hummel T, Schriever VA, Valdez B, Hudson R (2019) Metal-containing Particulate Matter and Associated Reduced Olfactory Performance in Children from an Area of High Atmospheric Exposure in Mexico City. *Chem Senses* (in press)
- Faria V, Han P, Joshi A, Enck P, Hummel T (2019) Verbal suggestions of nicotine content modulate ventral tegmental neural activity during a nicotine-free odor presentation in cigarette smokers. *Eur Neuropsychopharmacol* (in press)
- Laffon E, Hummel T, Marthan R, Sinding C (2019) Modelling analysis of centroid curves of olfactory habituation in humans. *Physiol Behav* (in press)
- Han P, Mohebbi M, Seo HS, Hummel T (2019) Sensitivity to sweetness correlates to elevated reward brain responses to sweet and high-fat food odors in young healthy volunteers. *Neuroimage* (in press)
- Walter, K., Conroy-Beam, D., Buss, D., Assao, K., Sorokowska, A., Sorokowski, P., ... Oleszkiewicz, A., ... Zupančič, M. (in press) Sex Differences in Mate Preferences Across 45 Countries: A Large-Scale Replication. *Psychological Science*.
- Pellegrino, R., Cheon, BK., Forde, CG., Oleszkiewicz, A., Pieniak, M., Lockett, C. (in press) The Contribution of Texture Contrasts and Combinations to Food Acceptance Across Cultures. *Journal of Texture Studies*. Doi: 10.1111/jtxs.12494
- Sorokowski, P., Oleszkiewicz, A., Sorokowska, A., Pisanski, K. (in press) Human height preferences as a function of population size in the Cook Islands and Norway. *American Journal of Human Biology*
- Conroy-Beam, D., Buss, D., Asao, K., Sorokowska, A., Sorokowski, P., Aavik, T. ... Oleszkiewicz, A., ..., Zupančič, M. (in press) Contrasting Computational Models of Mate Preference Integration Across 45 Countries. *Scientific Reports*
- Misiak, M., Butovskaya, M., Oleszkiewicz, A., Sorokowski, P. (in press) Digit ratio and hand grip strength are associated with male competition outcomes. A study among traditional populations of the Yali and Hadza. *American Journal of Human Biology*
- Frackowiak, T., Oleszkiewicz, A., Löckenhoff, C. E., Sorokowska, A., Sorokowski, P. (2019) Community size and perception of older adults in the Cook Islands. *PLoS ONE* 14(7): e0219760. Doi: 10.1371/journal.pone.0219760
- Conroy-Beam, D., Roney, J. R., Lukaszewski, A. W., Buss, D. M., Asao, K., Sorokowska, A., ... Oleszkiewicz, A., ... Zupančič, M. (2019). Assortative mating and the evolution of desirability covariation. *Evolution and Human Behavior*. doi:10.1016/J.EVOLHUMBEHAV.2019.06.003
- Niezabitowska, A., Oleszkiewicz, A., & Pieniak, M. (2019). Does the Frequency of Using Emoticons in Computer-Mediated Communication Signal Creativity? *Creativity. Theories–Research–Applications*, 6(1), 66-76. doi: 10.1515/ctra-2019-0004

- Sorokowska, A., Oleszkiewicz A. (in press) Body-odor based assessments of sex and personality – non-significant differences between blind and sighted odor raters. *Physiology and Behavior*, 210, 112573. doi: 10.1016/j.physbeh.2019.112573
- Sorokowski, P., Puts, D., Johnson, J., Oleszkiewicz, A., Sorokowska, A., Kowal, M., Borkowska, B & Pisanski, K. (2019). Voice of authority: Professionals lower their vocal frequencies when giving expert advice. *Journal of Nonverbal Behavior*, 43(2), 257-269. Doi: 10.1007/s10919-019-00307-0
- Malecki, W., Pawlowski, B., Sorokowski, P., Oleszkiewicz A. (2019) Feeling for textual animals: Narrative empathy across species lines. *Poetics*, 74, 101334. Doi: 10.1016/j.poetic.2018.11.003
- Mahmut MK, Uecker FC, Göktas Ö, Georgsdorf W, Oleszkiewicz A, Hummel T (2019) Changes in olfactory function after whole-body exposure to odours. *J Sen Studies* (in press)
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Other publications (Chapters, peer-reviewed reviews, letters)

- Moltaji, R., Hummel, T., Seo, H.-S. (2019). Effect of background noise on the odor discrimination performance can vary as a function of extraversion traits. *Proceeding of 2019 International Conference on Emotion and Sensibility (ICES) of Korean Society for Emotion and Sensibility*, Nagano University, Nagano, Japan, November 1st-2nd, 2019. pp. 30-32.
- Hummel T, Oleszkiewicz A (2019) Age-related changes of the sense of smell. In: Bleckmann H (ed) *The Senses: A Comprehensive Reference*, 2nd Edition. Elsevier (in press)
- Koçak T, Altundağ A, Hummel T (2020) Clinical Assessment of Olfactory Disorders. In: Cingi C, Bayar Muluk N (eds) *All Around the Nose*. Springer, Cham
- Taylor A, Beauchamp J, Brioad L, Pesce VC, Heer M, Hummel T, McGane S, Margot C, Pieters S, Pittia P, Spence C (2019) A taste for space. *Food Sci Technol* 35 (4): 36-41

Guests

- Dr. Sophia Poletti from the Dept. Of ORL, Univ. of Tübingen, visits from Sept 30 to Oct 4
- Coralie Mignot from Strasbourg starts her 2year position on Oct 1st
- Dr. Rona Graham, Univ. of Sherbrooke, visits on Sept 30
- Marta Mariano, Centro Hospitalar Universitário de Lisboa Central, Lisbon, Portugal, starts her 1 month internship on Sept 30th
- Mariana Donato, Otolaryngology at Centro Hospitalar Lisboa Ocidental, Lisbon, Portugal, starts her 10 day visit on Oct 4th
- Pedro Alexandre Gonçalves Henriques, Hospital Egas Moniz – Rua da Junqueira – Lisboa, Portugal, starts his 10 day visit on Oct 4th
- Rick Geoffrion, [Cyrano Therapeutics, Inc., Washington, D.C., USA](#), visits on the 13th of Nov 2019
- Dr. Karla Janoušková, and Dr. Hol, [ENT and Maxillofacial Clinic in Military Hospital in Prague](#), visit on Dec 16-17, 2019



Grants/Awards

- Anna Oleszkiewicz: „Olfactory training and odor awareness as effective rehabilitation of olfactory system and a support for cognitive and emotional functioning“, granted through

the Medizinische Fakultät, TU Dresden, Habilitationsförderung from December 1, 2019, for one year

- Poster award: Moltaji, R., Hummel, T., Seo, H.-S. (2019). Effect of background noise on the odor discrimination performance can vary as a function of extraversion traits. The 2019 International Conference on Emotion and Sensibility (ICES) of Korean Society for Emotion and Sensibility, Nagano University, Nagano, Japan, November 1st-2nd, 2019.



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- 2020-2021: Thomas Hummel and Noam Sobel: "The Nasal Cycle: A Novel Path to the Brain". Awarded by the Volkswagenstiftung, 120.000 Euro
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Thesis

- Kyri-Kristin Lindner, Dr. med. : 8.10.2019: „Zusammenhang zwischen posttraumatischen Riechstörungen und Läsionen des präfrontalen Kortex“
- Marie-Therese Georgi, Dr. med., 22.10.2019: „Die Wahrnehmung von Umami bei Patienten mit Riech- und Schmeckstörung“
- Timo Schultheiß, Dr. med., 22.10.2019: „Auswirkungen von "Trigeminalem Training" auf die Funktion des Nervus trigeminus und die subjektiv empfundene Nasendurchgängigkeit“
- Eileen Hoffmann, Dr. med.: 5.11.2019: „Der Einfluss des Gefäßes auf die sensorische Wahrnehmung von alkoholfreien Getränken“
- Kathrin Pietsch, Dr. med. , 19.11.2019: „Der Einfluss eines lateralisierten Riechtrainings auf das Volumen des Bulbus olfactorius und das allgemeine Riechvermögen gesunder Probanden“
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Courses, Presentations etc.:

- **Yunmeng Zhu:** Journal Club, Oct 9, 2019: Solitary Chemosensory Cells in humans.
- Anna Toth: Journal Club, Oct 16: Psychophysiology. 2019 Mar;56(3):e13299. Intensity expectation modifies gustatory evoked potentials to sweet taste: Evidence of bidirectional assimilation in early perceptual processing. Wilton M, Stancak A, Giesbrecht T, Thomas A, Kirkham T.
- Akshita Yoshi, Dresden: Oct 17: Top-down olfactory processing in subjects with congenital and acquired anosmia
- Agnieszka Sabiniewicz, Dresden: Oct 17: Olfactory communication between mammals

- Chemosensory Meeting in Wroclav, Institute of Psychology, University of Wroclav, Oct 26-Oct 28 2019 with presentations by: Thomas Hummel (“Smell training”), Mem Mahmut (“body odors in relationships”), Agnieszka Sabiniewicz (“odorous communication between humans and horses”), Anna Oleszkiewicz (“Sensory compensation in blind people”), Ayaho Yoshino (“olfactory function in the diagnosis of chronic rhinosinusitis”, Akshita Joshi (“brain responses to odor-related signals in congenital anosmia”), Coralie Mignot (“subliminal odors – FMRI studies”)
- Thomas Hummel gives a course on “[diagnostics and management of olfactory disorders](#)” at the “[53. Fortbildungsveranstaltung für Hals-Nasen-Ohrenärzte](#)” in Mannheim on the 2nd of November 2019, 9-12 a.m.
- Thomas Hummel presents at Smell and Taste course (9:00-14:00 h) at the Faculty of Medicine, National University of Malaysia (UKM), Department of Otorhinolaryngology-Head and Neck Surgery, Hospital Canselor Tuanku Muhriz, UKM Medical Centre, Kuala Lumpur, MALAYSIA, organized by in Professor Dr Salina Husain, on the 31st of Nov 2019
- Meeting in Lyon, with the labs of **Moustafa Bensafi** and **Camille Ferdenzi**, at the [Centre de Recherche en Neurosciences de Lyon Inserm U1028](#), on Dec 12-13, 2019, with presentations by **Akshita Joshi** (top-down processing of olfactory information: studies in anosmic patients), **Guliz Akin** (studies in sleep-inducing properties of odors), **Yunpeng Zang** (analysis of individual olfactory FMRI patterns in patients with olfactory loss), **Anna Oleszkiewicz** (olfactory function in blind people), **Coralie Migot** (subliminal odor perception) and **Thomas Hummel** (olfactometry).



Conferences

- 13th - 14th of Nov 2019: Meeting of the interest group in body odors in Dresden - Helene Loos (Erlangen), Bettina Pause (Düsseldorf), Monique Smeets (Utrecht), Jasper de Groot (Utrecht), Ilona Croy (Dresden), Jan Havlicek (Prague), Jessica Freiherr (Erlangen), and *Benoist Schaal (Dijon), Moustafa Bensafi (Lyon), Camille Ferdenzi (Lyon) - (virtual participants)*
- Dec 6-7, 2019: December Meeting on "Smell and Taste" supported by the Working Group on Olfaction and Gustation of the German ENT society, 6./7. December 2019 in Dresden with presentations by

Simona Negoias	subjective impairment of orthonasal and retronasal function: relation to diagnosis of olfactory disorders
Maxi Biermann	Olfactory function is reduced in patients with sensorineural hearing loss
Ayaho Yoshino	Olfactory function reflects the inflammatory status in chronic rhinosinusitis
Mesi Krause	Recordings of electro-olfactograms from the human olfactory epithelium in response to HLA-related PEPs



Linda Mehler	Influence of smell disorders on partnership, sexuality and parenthood
Anna Oleszkiewicz	Presence of undetected olfactory loss in the general population
Coralie Mignot	Modulation of cerebral activity by subliminal odors: an fMRI study
Laura Zaranek	Effect of olfactory training in children and teenagers with migraine and tension-type headache
Sophie Breuer	Central nervous processing of odors in infants
Valentin Schriever	Etiologies of olfactory dysfunction in a pediatric population
Stephanie Mann	Brain processing of intranasal trigeminal and olfactory stimuli from the same source
Dmitry Desser	Improvement of spatial and temporal resolution of functional MRI for olfactory brain regions
Yunpeng Zang	fMRI in patients with olfactory dysfunction
Tanja Drews	Temperature and humidity do not have a significant impact on the ability to smell
Akshita Joshi	Top-down olfactory processing in subjects with congenital and acquired anosmia
Dino Poldesek	Olfactory bulb volume changes associated with trans-sphenoidal pituitary surgery
Nadine Gunder	Intranasal sodium citrate in quantitative and qualitative olfactory dysfunction
Annegret Oelschlaegel	Influence of a nasal clip scenting on the intranasal sensitivity of patients with sinusoidal smelling disorders
Thomas Meusel	Recovery of intranasal trigeminal sensitivity after sinus surgery in patients suffering from nasal polyposis
Mem Mahmut	The Effect of Olfactory Training on Olfactory Bulb Volumes in Patients with Idiopathic Olfactory Loss
Agnieszka Sabiniewicz	The olfactory dysfunction is associated with the degree of cognitive function in head trauma

What else:

- Interview with BARBARA, Gruner und Jahr, on „Düfte“
- TV visit/interview on the 29th of October 2019: MDR Wissen: „Wie kommen Menschen auf den Geschmack?“
- Interview mit mdr Wissen: 5.11.2019: https://www.mdr.de/wissen/videos/essen-ost-west-geschmack100_zc-3e584ee8_zs-89720d56.html
- Link at ACHEMS homepage to BBC report (Interview with T Hummel): [Is there a cure for loss of smell?](#)
- Interview T. Hummel mit DER STANDARD (Maria Kapeller, 28.10.2019): [Was ein Leben ohne Geruchssinn bedeutet](#)
- November 2019: [Interview T. Hummel](#) with [reuksmakstoornis.nl](#):
- Dezember 2019 Interview T. Hummel mit PM Magazin: Diagnose durch die Nase (PM 01-2019, 30-35)

DERSTANDARD › Gesundheit

‘Het is geen sexy specialisme’

