

Report July – September 2018; Smell & Taste

Peer-reviewed Original Publications

- Raine J, Pisanski K, Oleszkiewicz A, Simner J, Reby D (2018) Human Listeners Can Accurately Judge Strength and Height Relative to Self from Aggressive Roars and Speech. *iScience* 4: 273–280
- Besser G, Liu DT, Renner B, Hummel T, Mueller CA (2018) Olfactory implant – Demand for a future treatment option in patients with olfactory dysfunction. *Laryngoscope* (in press)
- Han P, Mann S, Raue C, Warr J, Hummel T (2018) Pepper with and without a sting: brain processing of intranasal trigeminal and olfactory stimuli from the same source. *Brain res* (in press)
- Koehler L, Fournel A, Albertowski K, Roessner V, Gerber J, Hummel C, Hummel T, Bensafi M (2018) Impaired odor perception in autism spectrum disorder is associated with decreased activity in olfactory cortex. *Chem Senses* (in press)
- Han P, Winkler N, Hummel C, Hähner A, Gerber J, Hummel T (2018) Impaired brain response to odors in patients with olfactory loss after traumatic brain injury. *J Neurol* (in press)
- Aiello M, Parma V, De Carlo S, Hummel T, Rumiati IR (2018) Cognitive, sensory and affective determinants of body weight in free-living older adults. *Arch Clin Neuropsychol* (in press)
- Cavazzana A, Röhrborn A, Garthus-Niegel S, Larsson M, Hummel T, Croy I (2018) Sensory-specific impairment among older people. An investigation using both sensory thresholds and subjective measures across the five senses. *PLoS One* (in press)
- Pellegrino R, Sorokowska A, Marczak M, Niemczyk A, Butovskaya M, Huanca T, Sorokowski P (2018) Mapping sweetness preference across the lifespan for culturally different societies. *J Env Psychol* 58: 72-76
- Oleszkiewicz A, Pellegrino R, Guducu C, Farschi L, Warr J, Hummel T (2018) Temporal encoding during unimodal and bimodal odor processing in the human brain. *Chemosens Percept* (in press)
- Donner L, Schellong J, Haehner A, Weidner K, Huettnerbrink KB, Trautmann S, Hummel T, Croy I (2018) Nocturnal Olfactory Stimulation for Improvement of Sleep Quality in Patients with Posttraumatic Stress Disorder: A Randomized Exploratory Intervention Trial. *J Traumatic Stress* (in press)89

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

- Schriever V, von der Hagen M, Gellrich J, Hummel T (2018) Acquired olfactory dysfunction in children and adolescents - a systematic review of the literature. *Chem Senses* (in press)

Abstracts from ACHEMS conference 2018

- Grzeschuchna LS, Guducu C, Singh PB, Enger C, Hähner A, Hummel T (2018) Comprehensive Peripheral and Cerebral Evaluation of Taste Processing in Patients with Idiopathic Dysgeusia. *Chem Senses* 43: e169
- Hummel T, Winkler N, Hummel C, Gerber J, Haehner A, Han P (2018) Alterations of olfaction-related brain grey matter density and olfactory bulb volume in post-traumatic brain injury patients. *Chem Senses* 43: E170
- Lockett C, Pellegrino R, Hummel T, Emrich R, Chandra R, Turner J, Trone T (2018) Food Attitudes of Anosmics Across Different Cultures. *Chem Senses* 43: E171
- Würfel H, Oleszkiewicz A, Han P, Hummel T (2018) Reliability of Olfactory Threshold Testing Depends on the Diversity of Odor Compounds and its Quality. *Chem Senses* 43: E181
- Burghardt S, Han P, Knaapila A, Schriever V, Hummel T (2018) Impact of Olfactory Loss on Food Aroma and Taste Perception. *Chem Senses* 43: E189

- Tremblay C, Emrich R, Cavazzana A, Frasnelli J, Hummel T, Haehner A (2018) Central and peripheral electrophysiological response to trigeminal stimuli in Parkinson's disease. *Chem Senses* 43: E190
- Han P, Croy I, Raue C, Bensafi M, Larsson M, Cavazzana A, Hummel T (2018) Enhanced neural processing during odor imagery in olfactory-loss patients: an fMRI study. *Chem Senses* 43: E230
- Nuckle G, Betz A, Hummel T, Frasnelli J (2018) The Effect of Olfactory Recovery on Cortical Thickness. *Chem Senses* 43: E251
- Welge-Luessen A, Biermann M, Stieger C, Hummel T (2018) Olfactory function in patients with sensorineural hearing loss. *Chem Senses* 43: E252
- Rambacher L, Hummel T, Oleszkiewicz A (2018) Effects of Background Odors on Olfactory Threshold Testing. *Chem Senses* 43: 257
- Fitzek M; Schwob JE, Hummel T, Holbrook EH (2018) Human Olfactory Bulb Analysis in Relation to Age and Epithelial Neuronal Content. *Chem Senses* 43: E263

Guests

- Romain Colle, MD, PhD, Service Hospitalo-Universitaire de Psychiatrie de Bicêtre Equipe "Dépressions" INSERM CESP, Hôpital Bicêtre, Hôpitaux Universitaires Paris Sud - Faculté de Médecine Paris Sud, visits from July 3rd to July 6th
- Khaled Azab, medical student from Ainshams University, Egypt, visits from July 3rd to July 6th
- [Nirupa Chaudhari](#), PhD, Prof., and [Stephen Roper](#), PhD, Prof., from the University of Miami visit from July 5-July 7
- [Prof. Ohler](#) (Medienpsychologie) from TU Chemnitz visits on July 5th
- Rolf Pfaeffle, Breiter GmbH, Sigmaringen, visits on August 8, 2018
- [Anna-Maria Wirth](#) from the Dept of Psychology in Regensburg visits from August 7 to 10
- Dr. Kristi Biswas from Kristi Biswas from the School of Biological Sciences at the University of Auckland visits on Aug 20th
- Dr. [Akihito Kuboki](#) from Monell Chemical Senses Center, Philadelphia, visits on Monday, 3rd of Sept, 2018
- Dr. Ashino Yoshi visits from Aug 27 to Sept 3
- [Michal Sefanczyk](#) from the Dept of Psychology, University of Wroclaw, visits from Sept 11 to Sept 20
- Eva Drnovsek from Faculty of Medicine, University of Ljubljana, Ljubljana (Slovenia) visits from Sept 3rd to Sept 30th
- Dr. Gerold Besser from the Dept. of ROL at the Univ. of Vienna visits from September 18-20 within the framework of the Travel Award of the German Working Group on Olfaction and Gustation.
- Dr. Martin Kronenbürger, Dept of Neurology, Univ. of Greifswald, visits on the 28th of Sept
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Grants/Awards

- Travel Award to Pengfei Han from the Graduate Academy Dresden to visit the ACHEMS 2018 meeting in Bonita Springs (1500 Euro)
- Grant (2018-2019): Bräuer, Witt, Hummel: „Trigeminal function in patients with olfactory loss“ - Ausschreibung „Impuls Forschung 2018“ durch die Arbeitsgruppe Forschung des Verbunds Norddeutscher Universitäten (VNU) (5.000 Euro)
- Stipend for doctorate student Ms Mutschke granted within the frame of the Else-Kröner – Promotionskolleg („Evozierte Potentiale zur olfaktorischen und sprachlichen Wahrnehmung“)

- Preis der MigräneLiga e.V. Deutschland (Dr. Joachim Brand Preis) dotiert mit 5000 € für die Verbesserung der Versorgung von Migränapatienten – federführende Beteiligung von Frau Prof. Antje Hähner an dem Modul „Duftexposition“
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Thesis

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Courses, Presentations etc.:

- T Hummel presents on the 6th of July at [EndoBarcelona](#) (Barcelona) on “Bacterial and viral infection / mechanisms”
- T Hummel presents on the 10th of July at the [Dept. of Neurology](#), University of Regensburg, on “Olfactory System - Clinics and Imaging” and at the [Dept. of Otorhinolaryngology](#), University of Regensburg on “Diagnostik und Therapie von Riechstörungen”
- Journal Club: **Georg Lober** presents on August 1st: Van Gerven L, Alpizar YA, Steelant B, Callebaut I, Kortekaas Krohn I, Wouters M, Vermeulen F, Boeckxstaens G, Talavera K, Hellings PW: Enhanced chemosensory sensitivity in patients with idiopathic rhinitis and its reversal by nasal capsaicin treatment. J Allergy Clin Immunol 2017, 140:437-46.e2
- T Hummel presents on the 7th of August at the “Sommeruniversität - Stammzellen im Kopf” at the CRTD: “Riechen, Regeneration von Riechzellen in der Nase und klinische Beobachtungen dazu“
- [Anna-Maria Wirth](#) from the Dept of Psychology in Regensburg presents on August 8 on “Imaging studies in Idiopathic Parkinson’s Disease”
- Journal club: 14th of August:
 - **Charlotte Ballauf**: Koskinen K, Reichert JL, Hoier S, Schachenreiter J, Duller S, Moissl-Eichinger C, Schopf V: The nasal microbiome mirrors and potentially shapes olfactory function. Sci Rep 2018, 8:1296.
 - **Rosa Emrich**: Olfactory function in an excitotoxic model for secondary neuronal degeneration: Role of dopaminergic interneurons. Marin C, Laxe S, Langdon C, Berenguer J, Lehrer E, Mariñelazo F, Alobid I, Bernabeu M, Mullaol J. Neuroscience. 2017 Nov 19;364:28-44.
- [Dr. Kristi Biswas](#) from the School of Biological Sciences at the University of Auckland presents on Aug 20th presents on “the nasal microbiome”
- Journal club: 22nd of August: Nadine Gunder presents on Panagiotopoulos G, Naxakis S, Papavasiliou A, Filipakis K, Papatheodorou G, Goumas P: Decreasing nasal mucus Ca⁺⁺ improves hyposmia. Rhinology 2005, 43:130-4.
- Dr. [Akihito Kuboki](#) from Monell Chemical Senses Center in Philadelphia presents on Monday, 3rd of Sept, at 3 p.m. on "Insulin-dependent maturation of newly generated olfactory sensory neurons after injury"
- T Hummel and A Joshi present on the 24th of August at the [“Tag der Offenen Tür” of the Bundesgesundheitsministerium](#) (ministry of health) in Berlin on Smell and Taste ([practical tests with visitors](#))
- Journal Club, August 28, 15:00h: Marvin Verhees presents on Thürauf N, Friedel I, Hummel C, Kobal G: The mucosal potential elicited by noxious chemical stimuli: is it a peripheral nociceptive event. Neurosci Letters 1991, 128:297-300
- Journal Club, August 29, 11:00h: Akshita Joshi presents on Bergmann O, Liebl J, Bernard S, Alkass K, Yeung MS, Steier P, Kutschera W, Johnson L, Land M, Druid H, Spalding KL, Fris J. The Age of Olfactory Bulb Neurons in Humans. Neuron. 2012 May 24;74(4):634-9.

- Smell and Taste 10 – clinical satellite symposium to the 2018 ECRO meeting, Sept 4-5 2018 in Würzburg, Germany:
 - General olfaction and assessment of olfactory function - Thomas Hummel
 - Chemosensory dysfunction in patients with neurodegenerative disorders - Antje Haehner
 - Structural and functional imaging in the chemical senses - Pengfei Han
- T Hummel presents on Sept 7 keynote lecture on “the smell” at Congresso Nazionale InterAccademico AICNA - IAR Naso (Messina - Sicily), Italia 2018-09-05 - 2018-09-08.
- Journal Club, Wednesday, 11th of Sept:
 - **Marie-Elisabeth Krause**, 15 h: Groyecka A, Pisanski K, Sorokowska A, Havlicek J, Karwowski M, Puts D, Roberts SC, Sorokowski P: Attractiveness Is Multimodal: Beauty Is Also in the Nose and Ear of the Beholder. *Front Psychol* 2017, 8:778.
 - **Melanie Espin**, 15:30 h: Hanseeuw BJ, Betensky RA, Schultz AP, Papp KV, Mormino EC, Sepulcre J, Bark JS, Cosio DM, LaPoint M, Chhatwal JP, Rentz DM, Sperling RA, Johnson KA: Fluorodeoxyglucose metabolism associated with tau-amyloid interaction predicts memory decline. *Ann Neurol* 2017, 81:583-96.
- Journal Club, Wednesday, 19th of Sept, 11:30h: **Laura Fischer**: Kim DH, Kim SW, Hwang SH, Kim BG, Kang JM, Cho JH, Park YJ, Kim SW: Prognosis of Olfactory Dysfunction according to Etiology and Timing of Treatment. *Otolaryngol Head Neck Surg* 2017, 156:371-7.
- Journal Club, Wednesday, 26th of Sept, 13:00h:
 - **Jessica Fischer**: Nguyen DT, Bey A, Arous F, Nguyen-Thi PL, Felix-Ravelo M, Jankowski R: Can surgeons predict the olfactory outcomes after endoscopic surgery for nasal polyposis? *Laryngoscope* 2015, 125:1535-40.
 - **Eva Drnovsek**: Campabadal A, Uribe C, Segura B, Baggio HC, Abos A, Garcia-Diaz AI, Marti MJ, Valldeoriola F, Compta Y, Bargallo N, Junque C. Brain correlates of progressive olfactory loss in Parkinson's disease. *Parkinsonism Relat Disord.* 2017 Aug;41:44-50. and Mundiñano IC, Caballero MC, Ordóñez C, Hernandez M, DiCauda C, Marcilla I, Erro ME, Tuñon MT, Luquin MR. Increased dopaminergic cells and protein aggregates in the olfactory bulb of patients with neurodegenerative disorders. *Acta Neuropathol.* 2011 Jul;122(1):61-74
- T Hummel presents on Sept 20 at the [69th SIF National Congress of the Italian Physiological Society, Florence, Italy](#), on “Olfaction in humans with reference to pathologies affecting the sense of smell”
- T Hummel presents on Sept 22 at the [CONGRÈS FRANCO-ALLEMAND D'ORL ET DE LA SOCIÉTÉ ORL DE L'OUËST](#) in Rennes, France, on “Troubles de l'olfaction : diagnostic et traitement”
- **Dorothea Kretschmann** presents at the ICMART-iSAMS Congress 2018, Munich, Germany (Sept. 7-9), on “acupuncture in non-allergic rhinitis”
- **Sebastian Seurig** presents at the ICMART-iSAMS Congress 2018, Munich, Germany (Sept. 7-9), on “acupuncture in patients with phantosmia”
- **Laura Zaranek** presents at the Neurowoche Berlin (<https://www.neurowoche>) at the 1st of November 2018 on “Riechtraining bei Kindern und Jugendlichen mit chronischen Kopfschmerzen”
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What else:

- Thomas Hummel becomes “president elect” of the [European Chemoreception Research Organisation](#) (ECRO) in August 2018
- Thomas Hummel becomes a member of the Advisory Board of the “[Campus der Sinne](#)” at the Fraunhofer Institute in Erlangen
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