

Report July – September 2021; Smell & Taste

Peer-reviewed Original Publications

- Mariano M, Drews T, Hummel T (2021) In healthy subjects nasal nitric oxide does not correlate with olfactory sensitivity, trigeminal sensitivity, and nasal air flow. *Clin Otolaryngol* (in press)
- Iravani B, Peter MG, Arshamian A, Kitzler H, Olsson MJ, Thomas Hummel T, Kitzler H, Lundström JN (2021) Acquired olfactory loss alters functional connectivity and morphology. *Sci Rep* (in press)
- Lessmann ME, Guducu C, Ibarlucea B, Hummel T (2021) Electrophysiological recordings from the olfactory epithelium and human brain in response to stimulation with HLA related peptides. *Neurosci* (in press)
- Lötsch J, Hintschich CA, Petridis P, Pade J, Hummel T (2021) Self-ratings of olfactory function and their relation to olfactory test scores. A data science-based analysis in patients with nasal polyposis. *Appl Sci* (in press)
- Oleszkiewicz A, Heyne L, Cuevas M, Haehner A, Hummel T (2021) Odors count: Human olfactory ecology appears to be helpful in the improvement of the sense of smell. *Sci Rep* (in press)
- Bogdanov V, Reinhard J, McGlone F, Haehner A, Simons CT, Hummel TH (2021) Oral somatosensory sensitivity in patients with taste disturbance, *Laryngoscope* (in press)
- Pieniak M, Lachowicz-Tabaczek K, Karwowski M, Oleszkiewicz A (2021) Sensory compensation beliefs among blind and sighted individuals. *Scand J Psychol* (in press)
- Desser D, Assunção P, Yan X, Alves V, Fernandes H, Hummel T (2021) Automatic segmentation of the olfactory bulb. *Brain sci* (in press)
- Chen B, Masala C, Oleszkiewicz A, Englmeier V, Gunder N, Menzel S, Hähner A, Hummel T (2021) Nonlinear association between chemosensory dysfunction and body mass index. *J Sens Stud* (in press)
- Boscolo-Rizzo P, Hummel T, Hopkins C, D'Alessandro A, Dibattista M, Marzolino R, Menini A, Zanelli E, Spinato G, Fabbris C, Emanuelli E, Cancellieri E, Cargnelutti K, Fadda S, Vaira LA, Gardenal N, Polesel J, Tirelli G (2021) High prevalence of long-term olfactory and gustatory dysfunction in post-COVID-19 patients: a matched case-control study using a comprehensive psychophysical evaluation. *Rhinology* (in press)
- Sorokowska A, Oleszkiewicz A (2021) Free and cued identification of individual odorants in blind and sighted individuals. *Sens Studies* (in press) DOI: 10.1111/joss.12711
- Lötsch J, Hintschich CA, Petridis P, Pade J, Hummel T (2021) Machine-learning points at endoscopic, life-quality and olfactory parameters as outcome criteria for endoscopic paranasal sinus surgery in chronic rhinosinusitis. *J Clin Med* 10, 4245. <https://doi.org/10.3390/jcm10184245>
- Kamrava SK, Tavakol Z, Talebi A, Farhadi M, Jalessi M, Hosseini SF, Amini E, Chen B, Hummel T, Alizadeh R (2021) A Study of Depression, Partnership and Sexual satisfaction in Patients with Post-Traumatic Olfactory Disorders. *Sci Rep* (in press)

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

- Hosemann, W., Tasman, A.J., Reiß, M., Klingmann, C., Reiß, G., Mattheis, S., Tavassol, F., Beule, A.G., Rudack, C., Hummel, T., Heckmann, J.G., Schick, B., Keerl, R. & Maune, S. (2021) Erkrankungen der inneren Nase, der Nasennebenhöhlen (NNH), des Mittelgesichts und der vorderen Schädelbasis. In Reiß, M. (ed) *Facharztwissen HNO-Heilkunde: Differenzierte Diagnostik und Therapie*. Springer Berlin Heidelberg, Berlin, Heidelberg, pp. 501-575.
- Claassen, H., Paulsen, F., Schönweiler, R., Schönweiler, B., Hummel, T., Heckmann, J.G., Waldfahrer, F., Reiß, M., Müller, R., Bisdas, S. & Hempel, J.-M. (2021) Lippen, Mundhöhle und Pharynx – Anatomie, physiologische Grundlagen und Diagnostik. In Reiß, M. (ed) *Facharztwissen HNO-Heilkunde: Differenzierte Diagnostik und Therapie*. Springer Berlin Heidelberg, Berlin, Heidelberg, pp. 577-597.
- Claassen, H., Paulsen, F., Tasman, A.J., Hummel, T., Heckmann, J.G., Reiß, M., Reiß, G., Keerl, R., Bisdas, S. & Hempel, J.-M. (2021) Nase, Nasennebenhöhlen (NNH), Gesicht und vordere Schädelbasis – Anatomie,

physiologische Grundlagen und Diagnostik. In Reiß, M. (ed) *Facharztwissen HNO-Heilkunde: Differenzierte Diagnostik und Therapie*. Springer Berlin Heidelberg, Berlin, Heidelberg, pp. 443-472.

- Ridder GJ, Herzog M, Baier G, Potthoff A, Brockmeyer NH, Reiß M, Reiß G, Hummel T, Heckmann JG, Wallaschofski H, Guntinas-Lichius O (2021) Erkrankungen der Mundhöhle und der Lippen. In Reiß, M. (ed) *Facharztwissen HNO-Heilkunde: Differenzierte Diagnostik und Therapie*. Springer Berlin Heidelberg, Berlin, Heidelberg; S. 601-629
- Hintschich C, Niv M, Hummel T (2021) The Taste of the Pandemic – Contemporary Review on the Current State of Research on Gustation in COVID-19. *Int Forum Allergy Rhinol* (in press)
- Koczulla AR, Ankermann T, Behrends U, Berlit P, Böing S, Brinkmann F, Franke C, Glöckl R, Gogoll C, Hummel T, Kronsbein J, Maibaum T, Peters EMJ, Pfeifer M, Platz T, Pletz M, Pongratz G, Powitz F, Rabe KF, Scheibenbogen C, Stallmach A, Stegbauer M, Wagner HO, Waller C, Wirtz H, Zeiher A, Zwick RH (2021) [S1 Guideline Post-COVID/Long-COVID]. *Pneumologie* 2021. doi: 10.1055/a-1551-9734.
- Thomas JP, Völter C, Wirth R, Guthoff R, Grunwald M, Hummel T. Wie das Gehirn die Welt im Alter mit allen Sinnen wahrnimmt. *Z Gerontol Ger* 2021. doi: 10.1007/s00391-021-01936-1.

Guests / Personnel

- Rumi (Lucy) Sekine from the [Jikei University School of Medicine, Department of Otorhinolaryngology](#) begins her 6 month visit on July 1st
- Tin Hernandez (ANNA KRISTINA M. HERNANDEZ, MD, MPPM) from the [Dept. of Otorhinolaryngology - Head and Neck Surgery at the University of the Philippines](#) – Manila starts her 1 year visit on July 12th
- [Michał Pieniak, MSc](#), from the Dept of Psychology at the University of Wroclaw, Poland, starts his visit on July 1st
- August 12/13: [Mustafa Can](#) (writer from Sweden) visits for interviews.
- August 1 to 13: Lena Juratli ([medical student from Ann Arbor Univ., Michigan, USA](#)) and Hadi Juratli ([undergraduate from Michigan](#)) visit
- Lara Scope (MTA Schülerin) absolviert Praktikum vom 9. bis 13.8.2021
- Nunzia Papotto (PhD student), Abteilung für Molekulare Physiologie, Univ. of Heidelberg, visits from Aug 24 to Aug 27, 2021
- Laura Marone (MD student), from Medical School. School of Medicine of the University of Campania Luigi Vanvitelli, Naples, Italy, visits from Sept 1st to Sept 30th, 2021
- Yun-Ting Chao, MD, starts his 1-year visit on Sept 3rd, 2021 - [Taipei Veterans General Hospital](#), Taipeh, Taiwan.
- [Ulrike Speth](#) (Mund-Kiefer und Gesichtschirurgie, UKE Hamburg) visits on the 15th of September 2021
- Zetian Li, M.S. Applied Psychology, starts his 3-year stay on Sept 15th, 2021 – Southern Medical University, Guangzhou, China

Thesis

- 13.7.2021: Laura Maria Elisabeth Rambacher – Promotionsverteidigung Dr. med. - Modulation der Ergebnisse von Riechschwellentests durch Umgebungsgerüche
- 13.7.2021: Franziska Bock - Promotionsverteidigung Dr. med. dent. - Trigeminaler Reizung und Quellenlokalisation im EEG bei Migränepatienten
- 7.9.2021: Rosa Emrich - Promotionsverteidigung Dr. med. - Untersuchung der peripheren und zentralen Verarbeitung trigeminaler Aktivierung bei Patient:innen mit Riechstörungen unterschiedlicher Genese und Gesunden nach intranasaler Reizung

Courses, Presentations etc.:

- May 15, 2021: Antje Hähner presents at [the German ENT conference](#): „Idiopathische Riechstörungen – Diagnostik und Verlauf“

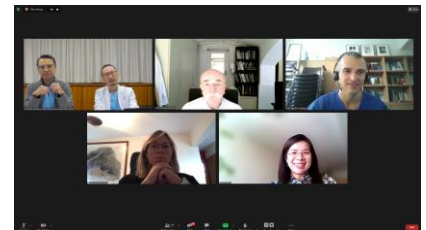
- Thomas Hummel: Vorträge mit Mitmach-Experimenten bei der [Langen Nacht der Wissenschaften](#) am 9.7.2021, 18:00-18:45h und 23:00-23:45h zum Thema „Riechen und Schmecken“



- Antje Hähner: "Riechen und Schmerz" - Vortrag im Rahmen des Kinderkopfschmerzprogramms am 16.7. und am 21.7.21 im Universitäts-Schmerz-Centrum
- 24th of Aug 2021: Thomas Hummel presents on Olfactory dysfunction and COVID-19 at Philippine Academy of Rhinology (host: Ma. Lourdes Encilla, MD)



- 10th of Sept 2021: Thomas Hummel presents on “Olfactory dysfunction and COVID-19” at the Congresso Nazionale AICNA (around the nose), Firenze, Italy
- 29th of Sept 2021: Thomas Hummel presents on “COVID19: Alterations of taste and smell: modalities, timing, sequelae” at the XIX Congresso nazionale AIOLP - Riva del Garda, Italy
- 18th of Sept 2021: Thomas Hummel trägt vor zum Thema “Riechstörung durch SARS-CoV-2 Infektion” beim 3. Ulmer Forum für Hals-Nasen-Ohren-Heilkunde
- September 24/25 (each day from 6-12 a.m. CEST): Hong Kong Commissioned training for neurosurgeons on **Neurogastronomy**, organized by Danny Chan and Samuel Chow



- September 29, 2021: Thomas Hummel: Online invited presentation at XIXª edizione del Congresso Nazionale AIOLP di Riva del Garda on “postviral olfactory loss”



- September 27-September 30: Thomas Hummel: talks at the ERS (European Rhinologic Society) conference 2021 on “Olfactory training: what can be restored?” and roundtable “Dilemmas in Olfaction”



Conferences in Dresden




- [Summerschool Human Olfaction](#), August 1-6, 2021



What else:

- Thomas Hummel – Interview mit Markus Bär, Augsburgener Allgemeine Zeitung, 30.6.2021, zu „Riechstörungen bei COVID19“
- Thomas Hummel – Interview mit [Gesundheitstipp](#) 07/08 2021, S. 4, „COVID-Nase“
- Thomas Hummel – [Interview mit Planet Wissen](#) – Bayerischer Rundfunk, 15.7.2021 zum Thema Geruch, zusammen mit Prof. Andrea Büttner – Sendung am 6.9.2021, 18:15 Uhr, Planet Wissen-Folge „Citrus, Jasmin und Bienenwachs – Die Welt der Gerüche“



- Antje Hähner: Interview mit PM-Magazin zu „Therapie bei Riechstörungen“ 
- Thomas Hummel: 26.8.2021: Interview mit Melanie Selitsanos, von  zum Thema „Aromatherapie“
- Thomas Hummel, 9.9.2021, Interview mit Lydia Sprinzl vom ORF, in der Sendung „Radiodoktor – Medizin und Gesundheit“, <https://oe1.orf.at/collection/581957> 
- Thomas Hummel, 20.9.2021, Interview with Alice Klein from the New Scientist, on [“Woman who first gained sense of smell at age 24 finds it disturbing”](#) 