

## Report October – December 2022; Smell & Taste

### Peer-reviewed Original Publications

- Sabiniewicz A, Zimmermann P, Ozturk GA, Warr J, Hummel T (2022) Effects of odors on sleep quality in 139 healthy participants. *Sci Rep* 12 :17165
- Gerczuk M, Amiriparian S, Batliner A, Triantafyllopoulos A, Heyne F, Klockow M, Schuller BW, Hummel T (2022) The Influence of Pleasant and Unpleasant Odours on the Acoustics of Speech. *Proceedings of the 10th IEEE International Conference on e-Health and Bioengineering, EHB 2022 (Iasi, Romania), IEEE, IEEE, 11 2022. 5 pages (in press)*
- Chao YT, Nakov A, Haehner A, Poletti S, Hummel T (2022) Olfactory stimulation may modulate the sensation of nasal patency. *Rhinology (in press)*
- Menzel S, Konstantinidis I, Valentini M, Battaglia P, Turri-Zanoni M, Sileo G, Monti G, Castelnuovo PGM, Hummel T, Macchi A (2022) Surgical approaches for possible positions of an olfactory implant to stimulate the olfactory bulb. *ORL (in press)*
- Lindroos R, Raj R, Pierzchajlo S, Hörberg T, Herman P, Challma S, Hummel T, Larsson M, Laukka EJ, Olofsson JK (2022) Perceptual odor qualities predict successful odor identification in old age. *Chem Senses. 2022 Jan 1; 47:bjac025. doi: 10.1093/chemse/bjac025.*
- Haehner A, Gossrau G, Bock F, Hummel T, Iannilli E (2022) Migraine Type-Dependent Patterns of Brain Activation After Facial and Intranasal Trigeminal Stimulation. *Brain Topogr. doi: 10.1007/s10548-022-00924-x*
- Burghardt GKL, Cuevas M, Sekine R, Hummel T (2022) Trigeminal sensitivity in patients with allergic rhinitis and chronic rhinosinusitis. *Laryngoscope (in press)*
- Menzel S, Haehner A, Woosch D, Marquardt B, Ressel C, Draf J, Ottaviano G, Boscolo-Rizzo P, Kardashi R, de With K, Hackl Y, Hummel T (2022) Parosmia as a predictor of a better olfactory function in COVID-19: a multicentric longitudinal study for upper respiratory tract infections. *Eur Arch Oto-Rhino-Laryngology (in press)*
- Mastinu M, Pieniak M, Wolf A, Green T, Hähner A, Niv MY, Hummel T (2022) A simple taste test for clinical assessment of taste and oral somatosensory function – the “Seven-iTT”. *Life (in press)*

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

- Hummel T, Power Guerra N, Gunder N, Hähner A, Menzel S (2022) Riechen und Riechstörungen. *Laryngo-Rhino-Otologie* 101: S1-S26
- Klimek L, Hagemann J, Döge J, Koll L, Cuevas M, Klimek F, Hummel T (2022) Störungen des Riech- und Schmeckvermögens bei COVID-19. *Allergo J*, 31(7):35-43.
- Koczulla AR, Ankermann T, Behrends U, Berlit P, Berner R, Böing S, Brinkmann F, Frank U, Franke C, Glöckl R, Gogoll C, Häuser W, Hohberger B, Huber G, Hummel T, Köllner V, Krause S, Kronsbein J, Maibaum T, Otto-Thöne A, Pecks U, Peters EMJ, Peters S, Pfeifer M, Platz T, Pletz M, Powitz F, Rabe KF, Scheibenbogen C, Schneider D, Stallmach A, Stegbauer M, Tenenbaum T, Töpfer N, von Versen-Höyneck F, Wagner HO, Waller C, Widmann CN, Winterholler C, Wirtz H, Zwick R. 2022. S1-Leitlinie Long-/Post-COVID. [German S1 Guideline Long-/Post-COVID]. *Pneumologie* 76: 855-907.
- Hummel T, Liu DT, Müller CA, Stuck BA, Welge-Lüssen A, Hähner A (2022) Riechstörungen: Ursachen, Diagnose und Therapie. *Dt Ärzteblatt (in press)*

### Guests / Personnel / Visitors

- Wiktorya Jedryczka from the Dept. of Psychology at the Univ. of Wrocław visits from November 7 to 11.
- Venkathesh N Murthy from [Dept. of Molecular and Cellular Biology, Harvard University](#) visits on Nov 11, 2022
- 28.-29.11.: Peter Petridis from Dortmund visits
- 7.12.2022: Prof. Agnieszka Sorokowska visits from the Dept. of Psychology at eth University of Wrocław

- 22.12.2022: Prof. Önder Göktas visits from Berlin

## Grants/Awards

- 2022-2024: Thomas Hummel together with Katharina Zimmermann (Biberach University of Applied Science): Characterization of the physico-chemical conditions and immune-function at the human olfactory mucosa mucosa (OlfacMuc). DFG HU441/27-1; Project number 466915470 (gesamt 238.000 €) 79.200 €
- 2022-2025: Thomas Hummel together with Federico Calegari and Adi Mizrahi: Cellular and Systems Neuroscience in the Treatment of Olfactory Dysfunction. DFG CA 893/22-1, Project number 504505452 293.750 €
- October 2022: Akshita Joshi receives the 3000 Euro Sponsorship Award 2022 from the German Association of Perfumers in SEPAWA e.V. (DGP) in recognition of special achievements of work and research on „Neural association between well-being and odor perception”



## Thesis

- Dana Schmidt, Dr. med., 11.10.2022: Die Wirksamkeit des Akupunktur-gestützten Riechtrainings bei Patienten mit Riechstörung
- Laura Manns, Dr. med., 29.10.2022: Prädiktoren für das Riechvermögen nach Nasennebenhöhlenoperation bei Patienten mit chronischer Nasennebenhöhlenentzündung mit Polypen (CRSwNP)
- Oana Grigorescu, Dr. med., 13.12.2022: Vergleich zwischen verschiedenen Verfahren zur Bestimmung der Riechschwelle
- Clemens Roitsch, Dr. med., 13.12.2022: Riechfunktion bei Adipositas

## Presentations at Courses, Presentations etc.:

- 2.9.2022: Antje Hähner, Virale Riechstörungen - was haben wir aus der Pandemie gelernt? [Mitteldeutscher HNO Kongress, Dresden](#)
- 2.9.2022: Nadine Gunder, Kurs: Riech- und Schmeckdiagnostik [Mitteldeutscher HNO Kongress, Dresden](#)
- 13.10.2022: Thomas Hummel presents at the [61th Annual Meeting of Japanese Rhinologic Society](#) on “Studying abroad”
- 20.10.2022: Thomas Hummel presents on “Consequences of olfactory loss” at the online conference: “Science-Telling About Revolution (STAR) in Sensory Nudges” organized by Han-Seok Seo, Arkansas, USA and others.



- 20.10.2022: Thomas Hummel participates in the panel discussion on **Smell** at the IFRA UK Fragrance Forum 2022, 20 October, London
- 29.10.2022: Tin Hernandez presents on “definitions in olfactory terminology” at the October meeting of the COWOG group in Varese, Italy



- 30.10.2022: Thomas Hummel presents on “Age-related changes in olfactory function” at the congress of the [European Society of ORL-HNS](#) in Milano
- 1.11.2022: Thomas Hummel presents on “Smell training” at the congress of the [European Society of ORL-HNS](#) in Milano
- 4.11.2022: Thomas Hummel presents on “Basics of olfactory function” at the online congress of the [European Academy of Allergy and Clinical Immunology](#)
- 4.11.2022: Thomas Hummel presents on “Basics of olfactory function” at [the clinical course on allergology in Dresden](#)
- 9.11.2021: Thomas Hummel presents on “Riechen” during a session for Continuing Medical Education organized by the Department of Otorhinolaryngology of the TUD Dresden, at the CTRD building
- 11.11.2021: Thomas Hummel presents online on “General Olfaction” at the Department of Experimental Psychology at the University of Sao Paulo
- 22.11.2021: Thomas Hummel presents on “Chemosensory perception: trigeminally mediated sensations” at Dept. of Clinical Psychology (Prof. Ilona Croy) at the University of Jena
- 23.11.2021: Thomas Hummel presents online on “Olfactory loss in COVID19” at the Deutsche Gesellschaft für Sensorik: <https://www.dgsens.de/arbeitskreise.html>
- 24.11.2021: Susanne Menzel presents at the [BLUE SKY LOUNGE event in the Technische Sammlungen Dresden](#), on “Olfactory function”
- 25.11.2021: Thomas Hummel presents at the conference "Nasal polyposis: what's new in 2022?" in Milano (Prof. Dragonetti) on olfactory function in CRS.
- Dec 2/3, 2022: December Meeting on "Smell and Taste" supported by the Working Group on Olfaction and Gustation of the German ENT society, 2./3. December 2022 in Marburg
  - Marlise Hofer: The Link Between Olfactory Functioning and Sexual Wellbeing: Data from a Longitudinal Sample
  - Susanne Menzel: Olfactory Implants and Transplants
  - Laura Fischer: Factors that predict the smelling ability after paranasal sinus surgery in patients with CRS and nasal polyps
  - Coralie Mignot: Case Study: Consequences of gaining olfactory function after life-long anosmia.
  - Oana Grigorescu: A Bayesian adaptive algorithm (QUEST) to estimate olfactory threshold in hyposmic patients
  - Thoams Hummel: A new olfactory test
  - Zetian Li: The association between depth of the olfactory sulcus, age, gender and olfactory function
  - Thomas Hummel: Assessment of parosmia
  - Yling Mai: Abnormal visual and olfactory sensations during irradiation therapy: a prospective study
- Nov 30/Dec 1, 2022: Lab-to-Lab meeting in Lyon (CRNL - CH Le Vinatier - Bâtiment 462 - Neurocampus, 95 Bd Pinel, 69500 Bron):
  - Thomas Hummel - Olfactory deficits: prevalence, types, origins and duration
  - Susanne Menzel - Restoring olfaction: paradigms



- Yiling Mai - Abnormal olfactory and visual sensation during irradiation therapy: a prospective study
- Michal Pieniak - Impact of olfactory training on olfactory functions and olfactory event-related potentials in healthy adults
- Coralie Mignot - Case Study: Consequences of gaining olfactory function after life-long anosmia

### Presentations in the lab:

- 11.10.2022: Jana Slobodova presents on "[A taste for beauty: On the expected taste, hardness, texture, and temperature of geometric shapes](#)" by Juravle G, Olari EL, Spence C.
- 12.10.2022: Yiling Mai presents on "[There is chemistry in social chemistry](#)" by Inbal Ravreby, Kobi Snitz, Noam Sobel
- 25.10.2022: Coralie Minot presents on "[Responses of chemosensory perception to stimulation of the human brain](#)" by Li Y et al.
- 02.11.2022: Zetian Li presents on "[Development and Psychometric Validation of the Olfactory Dysfunction Outcomes Rating. Lee JJ, Mahadev A, Kallogjeri D, Peterson AM, Gupta S, Khan AM, Jiramongkolchai P, Schneider JS, Piccirillo JF. JAMA Otolaryngol Head Neck Surg. 2022 Oct 20. doi: 10.1001/jamaoto.2022.3299.](#)"
- 4.10.2022: Chrissie Kelly, London, from [abscent.org](#) presents on „Impact of olfactory loss in patients”
- 11.10.2022: Jana Slobodova presents on Juravle, Olari and Spence: [A taste for beauty: On the expected taste, hardness, texture, and temperature of geometric shapes.](#)
- 10.11.2022: [Marlise Hofer](#), PhD, from the University of British Columbia in Vancouver presented her study on “Depression in COVID19”

### media:

- Interview Thomas Hummel in achterglas (“Dutch Anosmia Society”) [https://issuu.com/anosmievereniging/docs/opmaak\\_ag\\_4\\_issuu](https://issuu.com/anosmievereniging/docs/opmaak_ag_4_issuu)
- Interview Thomas Hummel with Eliza Strickland on: "[BIOMEDICAL FEATURE: WITH THIS BIONIC NOSE, COVID SURVIVORS MAY SMELL THE ROSES AGAIN](#)" in IEE Spectrum , Oct 2022
- Interviews Susanne Menzel, Coralie Mignot, Thomas Hummel for Brigitte – Woman 11/20, “Schnupper mal”, pages 110-116
- 13.12.2022: Interview Thomas Hummel with Nela Fichtner: SWR1 Sonntagmorgen, "Mit Düften heilen"
- Interview of Thomas Hummel on Dec 30<sup>th</sup> 2022 with dpa (deutsche Presseagentur) on longterm consequences of COVID (<https://www.welt.de/gesundheit/article242953003/Geruchsverlust-nach-Coronainfektion-Immunreaktionen-als-Ursache.html> )

