

Report January – March 2025; Smell & Tastes

Peer-reviewed Original Publications

- Iannilli E, Pötz EL, Hummel T (2025) A Survey on the Evaluation of Monosodium Glutamate (MSG) Taste in Austria. *Foods* 14, 22. <https://doi.org/10.3390/foods14010022>
- Gellrich J, Lohrer E, Hummel T, Schriever V (2025) Olfactory dysfunction in children and adolescents – a diagnostic pathway. *Neuropediatrics* (in press)
- Plaza-Diaz J, Brandimonte-Hernández M, López-Plaza B, Ruiz-Ojeda FJ, Álvarez-Mercado AI, Arcos-Castellanos L, Feliú-Batlle J, Hummel T, Palma-Milla S, Gil A (2025) Effect of a novel food rich in miraculin on the intestinal microbiome of malnourished patients with cancer and dysgeusia. *Nutrients* (in press)
- Caballero I, Mbouamboua Y, Weise S, López-Gálvez R, Couralet M, Fleurot I, Pons N, Barrera-Conde M, Quílez-Playán N, Keller M, Klymiuk N, Robledo P, Hummel T, Barbry P, Chamero P (2025) Cystic fibrosis alters the structure of the olfactory epithelium and the expression of olfactory receptors affecting human odor perception. *Sci Adv* (in press)
- Sabiniewicz A, Krause M, Hummel T (2025) Age-related decrease of odorant sensitivity for a selection of nine diverse molecules. *Eur Arch ORL* (in press)
- Bierling AL, Croy A, Jesgarzewsky T, Rommel M, Cuniberti G, Hummel T, Croy I (2025) A dataset of laymen olfactory perception for 74 mono-molecular odors. *Sci Data* (in press)
- Hofer MK, Blume L, Turner BJ, Schäfer L, Croy I, Hummel T (2025) The impact of COVID-19-related smell dysfunction on sexual and mental wellbeing: Data from a longitudinal sample. *Biol Psychol* (in press)
- Bierling AL, Croy A, Bilem F, Bloy L, Ho FY-Y, Jimenez AF, Kyjaková P, Mastinu M, Power Guerra N, Sailer U, Schirmer A, Silva EC, Surakka V, Takau L, Thunell E, Verma K, Żyżelewicz BR, Majid A, Croy I (2025) A standardized lexicon of body odor words crafted from 17 countries. *Sci Data* 12:325.
- Li Z, Gebler J, Joshi A, Xu X, Thaploo D, Haehner A, Avaro V, Calegari F, Hummel T (2025) Functional but not structural brain changes after olfactory training in women with COVID-19-associated olfactory dysfunction. *Laryngoscope* (in press)
- Chao YT, Dimow J, Hummel T (2025) Changes in Olfactory Function of Adults following Surgically Assisted Maxillary. *Eur Arch ORL* (in press)
- Saluja S, Ciscato T, Mistry A, Hummel T, Spence C, Stevenson RJ (2025) The nature and origins of crossmodal associations to astringent solutions and basic tastes. *Food Qual Pref* (in press)
- Sorokowska A, Oleszkiewicz A, Barszcz S, Chabin D, Jędrusik P, Kaczmarek L, Kamieńska A, Nomejko A, Hummel T (2025) Child food neophobia and sympathetic arousal in response to odor exposure. *Neuroscience* (in press)
- Xu X, Flemming K, Mastinu M, Haehner A, Hummel T (2025) Oral somatosensory sensitivity in the clinical assessment of gustatory dysfunction. *Laryngoscope* (in press)
- Mastinu M, Schönherr MV, Hummel T (2025) The taste of trigeminal sensations: relation between taste, lingual tactile acuity, and spicy perception in patients with taste dysfunction. *Chem Senses* (in press)

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

- Mai Y, Burghardt GKL, Hummel T (2025) Olfactory Stimulation Enhances Trigeminal responses at the Mucosal Level. *Laryngoscope* (in press)

Guests / Personnel / Visitors

- Alda Bumbure, MD PhD, from the Clinical Research Institute, Riga, Latvia, visits on January 15 and 16, 2025
- Dr. med. [David Slabik](#) visits from the Dept. of Psychiatry, Univ. of Tübingen, from Jan 20 to Jan 24, 2025
- Chloe Miet, MSc, Laboratoire des Neurosciences Fonctionnelles et Pathologiques, Amiens, France, visits from Jan 13 to Feb 28, 2025
- [Prof. Dr. David Netuka](#) visits from the Dept. of Neurosurgery of the Military Hospital, Prague, visits on the 22.1.2025
- Dinis Sampaio-Pires, PhD student at the Dept. of Physiology at the University of Magdeburg, visits on the 27th of January, 2025
- Kanade Kamei, medical student from the [St. Marianna University School of Medicine](#), Kanagawa, Japan, visits from March 1st to March 31st 2025
- [Prof. Rona Graham](#), Gibsons's medical Clinic, University of Sherbrooke, visits from the 10th of March until the 18th of April 2025

Thesis

- 14.1.2025: Hanna Heitmann, Dr. med. dent., Die Beziehung zwischen der Tiefe des Sulcus Olfactorius und der Riechfunktion unter Berücksichtigung von Alter und Geschlecht
- 14.1.2025: Nicolas Leon Mayer, Dr. med., Elektrische Stimulation des Salienz-Netzwerks über den Nervus olfactorius - eine fMRT-Studie
- 04.04.2025: Anna Kristina Hernandez, Ph.D., Investigating the intranasal trigeminal system and its interactions with olfaction and nasal airflow / obstruction based on psychophysical and objective airflow tests

Conference / presentations:

- 11.1.2025: Thomas Hummel mit Vortrag zum Thema: Langzeitergebnisse des Riechens nach Covid bei der Rhinologischen Tagung Dresden



- 16.1.2025: Thomas Hummel presents on „Assessment of olfactory function” at the Master of Science Program in "Rhinology-Rhinoplasty", organized by the ENT Departments of 4 Universities in Greece (Aristotle University of Thessaloniki, Democritus University of Thrace, University of Thessaly and University of Crete)

- 30.1.2025: Thomas Hummel presents at the [31st Rhino Egypt conference in Cairo](#) on
 - Management of postviral olfactory dysfunction
 - Future trends in management of olfactory dysfunction
 - When to prescribe local / systemic corticosteroids for an olfactory loss case?
 - Assessment of olfactory function
 - Parosmia
- 27.2.2025: Thomas Hummel presents on “Plasticity of the olfactory system in a clinical context” at the conference [“Science-Telling-About-Revolution \(STAR\) in Sensory Nudges Conference – Exploring the Magic of Sensory Qs Beyond Food Preference”](#) in Fayetteville, Arkansas
- 6.3.2025: Thomas Hummel presents on “Clinical assessment of olfactory function” and “Olfactory training in smell loss” during the [“el sentido del olfato”](#) at the Centro Medico Teknon, Barcelona
- 13.3.25: Antje Hähner presents on „Olfaktorische Funktion und Plastizität im klinischen Alltag“ at the Jahrestagung des [Deutschen Verbandes der Riechstoff-Hersteller](#) e.V. (DVRH) in Prague.



Presentations in the lab:

- Journal Club, 21.1.2025: Lenja Mayer presents on [“Long-term Outcomes of PRP Injections for Post-viral Olfactory Loss: A Prospective Cohort Study”](#) by Fieux et al. 2024
- Journal Club, 22.1.2025: Lukas Sekinger presents on [“An electronic nose can identify humans by the smell of their ear”](#) by Brenner et al. 2024
- 22.1.2025: Dr. med. David Slabik, Dept. of Psychiatry, Univ. of Tübingen, presents on “Juxtaglomerular cells in the mouse olfactory bulb”
- [Prof. Rona Graham](#), Gibsons's medical Clinic, University of Sherbrooke, presents on the 15th of April at 15:00h, on *Arterial diameter changes in the brain and improvement of olfactory and cognitive functions post olfactory therapy in Mild Cognitive Impairment*

media:

- Interview mit Eva Reik, FAZ Magazin zum Thema „Umami“ (11.1.2025)
- Nicole Power Guerra, Susanne Weise, Pauline Hanslik, Thomas Hummel: Riechen – auf der Fährte des verkannten Sinns: **arte** <https://www.arte.tv/de/videos/112241-000-A/riechen-auf-der-faehrte-des-verkannten-sinns/>
- Interview von Thomas Hummel, Antonie Bierling und Gianaurelio Cuniberti mit Annegret Faber, am 12.3.2025, zum Thema „Wörterbuch der Gerüche“

