

## Report April – June 2024; Smell & Taste

### Peer-reviewed Original Publications

- Piniak M, Tutar C, Jedryczka W, Benkhatar H, Debroise Blanchard-Dignac V, Haehner A, Hummel T (2024) A practical test for retronasal odor identification based on aromatized tablets. *J Neurosci Meth* (in press)
- Green T, Mastinu M, Wolf A, Oleszkiewicz A, Aronis A, Hummel T, Pepino MY, Niv MY (2024) Home screening of taste and oral trigeminal function: a feasibility study. *Eur Arch Oto-Rhino-Laryngology* (in press)
- Pieniak M, Rokosz M, Ivcevic Z, Reichert A, Żyżelewicz B, Nawrocka P, Lebeda I, Oleszkiewicz A (2024). Olfactory training improves emotion matching ability in 6–9 years old children — preliminary evidence. *Journal of Sensory Studies*, 39(2), e12912.
- Mignot C, Weise S, Podlesek D, Leonhardt G, Bensafi M, Hummel T (2024) What do brain oscillations tell about the human sense of smell? *J Neurosci Res* (in press)
- Bratman GN, Bembibre C, Daily GC, Doty RL, Hummel T, Jacobs LF, Kahn Jr. PH, Lashus C, Majid A, Miller JD, Oleszkiewicz A, Olvera-Alvarez H, Parma V, Riederer A, Long Sieber N, Williams J, Xiao J, Yu CP, Spengler JD (2024) Nature and Human Well-Being: The Olfactory Pathway. *Sci Adv* (in press)
- Power Guerra N, Bierkämper M, Pablik J, Hummel T, Martin Witt M (2024) Histochemical evidence for reduced immune response in nasal mucosa of COVID-19 patients. *Int J Mol Sci* (in press)
- Podlesek D, Beyer F, Alkhatib M, Daubner D, Hijazi M, Juratli JH, Weise S, Eyüpoglu I, Schackert G, Juratli T, Hummel T (2024) Correlation of molecular status with preoperative olfactory function in olfactory groove meningioma. *Cancers* (in press)
- Drnovsek E, Haehner A, Bensafi M, Hummel T (2024) Olfactory perceptual fingerprints of people with olfactory dysfunction and healthy controls. *Laryngoscope Inv Otolaryngol* (in press)
- Brandão MA, Paranhos T, Hummel T, de Oliveira-Souza R (2024) Bilateral Hypogeusia and Food Aversion due to Lacunar Infarct in the Right Dorsomedial Pontine Tegmentum. *NCS-OA* (in press)
- Weise S, Hanslik P, Mignot C, Gluskov E, Bertsch A, Dubreuil R, Bensafi M, Füssel S, Hummel T (2024) Mapping of the human intranasal mucosal thermal sensitivity: A clinical study on thermal threshold and trigeminal receptors: *PLoS One* (in press)
- Sabiniewicz A, Pieniak M, Hummel T (2024) Pregnant women exhibit decreased trigeminal sensitivity. *Brain Behav* (in press)
- Gellrich J, Czaplewski L, Hähner A, Hummel T (2024) Palmitoylethanolamide and Luteolin for postinfectious olfactory disorders: How clinically meaningful is its effect? *ORL* (in press)
- Melis M, Loi E, Mastinu M, Naciri LC, Zavattari P, Barbarossa IT (2024) Gene Methylation Affects Salivary Levels of the Taste Buds' Trophic Factor, Gustin Protein. *Nutrients* 16(9):1304.
- López-Plaza B, Álvarez-Mercado AI, Arcos-Castellanos L, Plaza-Díaz J, Ruiz-Ojeda FJ, Brandimonte-Hernández M, Feliú-Batlle J, Hummel T, Gil A, Palma-Milla S (2024) Efficacy and

Safety of Habitual Consumption of a Food Supplement Containing Miraculin in Malnourished Cancer Patients: the CLINMIR Pilot Study. *Nutrients* (in press)

- Pisanski, K., Reby, D., Oleszkiewicz, A., (in press) Humans need auditory experience to produce typical volitional nonverbal vocalizations. *Communications Psychology*
- Rokosz, M., Pieniak, M., Marek, D., Żyżelewicz, B., Croijmans, I., Smeets, M., Oleszkiewicz, A. (2024) A Short Version of Odor Awareness Scale (OAS-6). *Food Quality and Preference*. Doi: 10.1016/j.foodqual.2024.105192
- Pieniak, M., Rokosz, M., Nawrocka, P., Reichert, A., Zyzelewicz, B., Mahmut, M., Oleszkiewicz, A. (in press) Nullcross-modal effects of olfactory training on visual, auditory or olfactory working memory in 6-9 years old children. *Neuropsychological Rehabilitation*
- Groyecka-Bernard, A., Sorokowski, P., Karwowski, M., (...), Oleszkiewicz, A., (...), Sorokowska, A. (2024) Conservatism Negatively Predicts Creativity: A Study Across 28 Countries. *Journal of Cross-Cultural Psychology*. Doi: 10.1177/00220221241238321
- Pieniak, M., Rokosz, M., Ivcevic, Z., Reichert, A., Żyżelewicz, B., Nawrocka, P., Lebuda, I., Oleszkiewicz, A. (2024) Olfactory training improves emotion matching ability in 6-9 years old children – preliminary evidence. *Journal of Sensory Studies*. Doi: 10.1111/joss.12912
- Nakanishi M, de Paula Brandão PR, Subtil Magalhães Freire G, Gustavo do Amaral Vinha L, Fornazieri MA, Anselmo Lima WT, Assis Pereira D, Campos de Sousa GH, Galvão C, Hummel C (2024) Development and Validation of the MultiScent 20 Digital Odour Identification Test Using Item Response Theory. *Sci Reports* (in press)

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

- Dekeyser A, Huart C, Hummel T, Hox V (2024) Olfactory loss in rhinosinusitis: mechanisms of loss and recovery. *Int J Mol Sci* (in press)

### Guests / Personnel / Visitors

- 6./7.6.2024: Clementine Lipp from EPFL, Lausanne, visits

### Thesis

- Mona Rosbach (Dr. med.): Korrelation von Riechvermögen und zirkadianer Rhythmik. 16.07.2024

### Conference:

- students from the course Medical neurosciences, Campus Mitte, Humboldt University, Berlin

Friday, 7th of June 2024		
	group A - practical sessions	group B - practical sessions
12:00	Arrival at Fetscherstrasse 74, house #29 (clinic for orthopedics, top floor, lecture hall): Google maps coordinates 3Q5H+CM Dresden	
12:00-13:00	Hummel - smell, taste: general introduction	
13:00-13:45	Power Guerra - body odors	
13:45-14:45	break	
14:45-15:15	Hähner - neurodegenerative disorders	
15:15-15:45	Thaploo - Neuroimaging in the olfactory system	
15:45-16:15	transfer to house #5, basement; short break	
16:15-16:40	Mignot - olfactometry, EEG/ERP/EOG data analysis	Joshi - ortho- and retronassal olfactory tests, taste tests
16:40-17:05	Hernandez - nasal endoscopy	Mignot - olfactometry, EEG/ERP/EOG data analysis
17:05-17:30	Joshi - ortho- and retronassal olfactory tests, taste tests	Hernandez - nasal endoscopy
17:30-17:45	Hummel - goodbye	
17:45	Transfer to train station	

## External Presentations:

- ISIAN/ IRS 2024, Tokyo: 5.4.2024, Thomas Hummel present a keynote lecture on “Clinical aspects of plasticity in the olfactory systems”
- AChemSXLVI conference 2024, April 17-20, Bonita Springs, FL, USA
  - Effects Of Physical Exercise And Olfactory Training With Pleasant And Unpleasant Odors On Verbal Fluency And Depression. Agnieszka Sabiniewicz, Aleksandra Reichert, Anna Oleszkiewicz, Antje Haehner, Thomas Hummel
  - Olfaction Evaluation In Dogs With Sudden Acquired Retinal Degeneration Syndrome (Sards). Kenneth Abrams, Daniel Ward, Agnieszka Sabiniewicz, Thomas Hummel
  - A Life Without Smell: Olfactory Function In People Working In Odorless Rooms. Thomas Hummel, Anika Boesen, Falk-Tony Olesch, Ben Chen
  - Comparison Of Patient Characteristics And Olfactory Sensitivity For Trigger Odorants In Parosmia And Phantosmia. Anna Kristina Hernandez, Rumi Sekine, Clara Overbeck, Marlise K Hofer, Eri Mori, Antje Hähner, Thomas Hummel
  - Subjective Impairment Decreases Significantly Over Time In Patients With Olfactory Disorders: A Cohort Study. Antje Welge-Lüssen, Simon Wirth, Simona Negoias, Jan Roth, Thomas Hummel
  - Comparing The Number Of Cribriform Plate Foramina In Patients With Acquired And Congenital Anosmia. Jerry Hadi Juratli, Brigit High, Akshita Joshi, Eren Yilmaz, Duzgun Yildirim, Aytug Altundag, Thomas Hummel

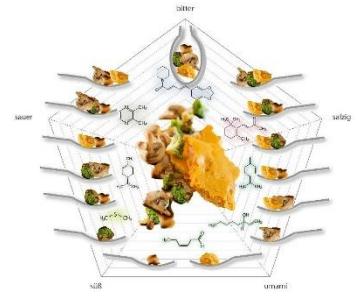


- Trigeminal Function After Damage Of The Olfactory System Or Other Neuronal Structures. Thomas Hummel.
- Demonstrations of test procedures for evaluating human smell and taste function. Chairs: Thomas Hummel and Richard Doty; presenters: Kristina Hernandez, Antje Welge-Lüssen, Shima Moein, Thomas Hummel

- [Ringvorlesung Gesamtkunstwerk Essen](#): 2. Geschmack und Aroma. Molekulare Ästhetik des Essens, 24.4.2024: presenter: [Prof. Dr. Thomas A. Vilgis](#) (Max-Planck-Institut für Polymerforschung Mainz) discussant: Thomas Hummel

- Thomas Hummel presents at the [18th Türk Rinoloji Kongresi](#): 26. April, 2024, Antalya on

- Assessment of Olfactory Function
- Trigeminal Nasal Function
- Treatment of Postviral Olfactory Loss



- 7.5.2024: Thomas Hummel presents at the [E3S symposium 2024](#) in Münster on “clinical aspects of the sense of smell”

- 9.5.-11.5.2024: Deutscher HNO Kongress in Essen; mit Präsentationen von
  - Thomas Hummel: Kurs – Klinische Aspekt der Chemosensorik
  - Nicolas Mayer: Der Nervus olfactorius als Kanal für die elektrische Stimulation des Salienz-Netzwerks
  - Nadine Gunder: Anwendung von plättchenreichem Plasma bei Riechstörungen
  - Nadine Gunder, Thomas Hummel, Mandy Cuevas: Wirksamkeit und Sicherheit von Biologika in der Therapie der schweren chronischen Rhinosinusitis mit Polyposis (CRSwNP) – Real-World-Daten



- Conference, Norwich, 30.-31.5.2024: [Smell and Taste Symposium 2024](#) Presentations by Thomas Hummel:

- Psychophysical testing options
- Setting up a Smell & Taste Lab/Clinic

- [XIV Conferenza Internazionale SVO](#), Venice, 10.-13.6.2024: Presentations by Thomas Hummel (Lectio Magistralis) on “The assessment of olfactory function”

- [SGORL, Frühjahrsversammlung, Lugano](#), 13.6.2024: Presentations by Thomas Hummel on “Introduction and Update on Olfactory Function”



- 7th Congress of European ORL-HNS, June 15-19, in Dublin:
  - Thomas Hummel, June 18, 11:00-11:30: “Let your scent do the talking: How to impress with fragrance and what happens when it fails”
  - Thomas Hummel, June 18, 14:30-15:00: “Anosmia in children”
  - Thomas Hummel, June 18, 17:00-17:45: Session chair: “practical approach to chemical senses”, with Basile Landis, Iordanis Konstantinidis, Caroline Huart



- ISOT 2024 conference in Reykjavik, Iceland, with presentations by:
  - **Thomas Hummel:** Trigeminal function and its association with olfactory perception
  - **Nicole Power Guerra:** Unveiling disease: discriminating healthy and diseased body odors
  - **Mariano Mastinu:** Central processing of food-related odors is affected by PROP taste sensitivity
  - **Coralie Mignot:** Chemosensory function in chronic rhinosinusitis patients after surgery: a prospective study using psychophysical and electrophysiological measures
  - **Akshita Joshi:** Impact of a 12-week olfactory training program in women with migraine with aura: a double-blind, randomized, placebo-controlled trial
  - **Divesh Thaploo:** Spatial Insights into Olfactory Disorders: Tract-Based Analysis of Altered Connectivity
  - **Zetian Li:** Patients with Parosmia respond faster to unpleasant odors than patients with hyposmia: insights from olfactory event-related potentials
  - **Yling Mai:** Responses to the activation of different intranasal trigeminal receptors: Evidence from behavioral, peripheral and central levels
  - **Anna Oleszkiewicz:** Olfactory sensitivity varies across the globe
  - **Michal Pieniak:** Perceived threat of social odors mediates the relationship between social anxiety symptoms and olfactory acuity
  - **Thomas Hummel** chaired the session on “Odor Space” with **Emily Mayhew, Antonie Bierling, Masha Niv, and Noam Sobel.**

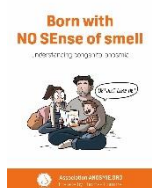


## Presentations in the lab:

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## What else:

- 26.5.2024: Book “Born with NO SEense of smell.”, preface by Thomas Hummel  
<https://www.helloasso.com/associations/anosmie-org/boutiques/book-born-with-no-sens-of-smell-en>
- Lange Nacht der Museen am 6.6.2024: Vorstellung von Riech- und Schmecktests im Deutschen Hygienemuseum. Beteiligte: Alicia Jatzek, Lenja Mayer, Nicolas Mayer, Plamena Miteva, Johannes Stern, Christopher Aveline, Anabel Bormann, Thomas Hummel

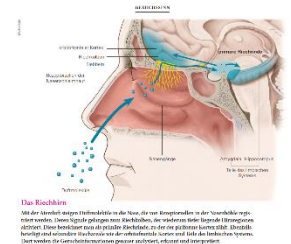


- Lange Nacht der Wissenschaft am 14.6.2024: Vorstellung von Riech- und Schmecktests im MTZ Gebäude des Uniklinikums Dresden sowie im CRTD Gebäude. Beteiligte: Anabell Bormann, Elisabeth Keller, Karoline Lantzsch, Marie-Sophie Schuster, Aya Ajaj, Sero Biguerdi, Annika Sachs, Zetian Li, Korinna Lorenz, Thomas Hummel



## media:

- 29.4.2024: Interview von Thomas Hummel in arte: [Welche Macht haben Gerüche? | 42 - Die Antwort auf fast alles](#) (moby DOK. Erzählung: Nora Tschirner; Regie: Petra Thuirn; Autor: Jens Grünhagen)
- 6.5.2024: Interview mit Jenny Gräfe, medpertise ([„Riechstörung: Nicht nur Viren können Geruchsverlust verursachen“](#))
- 14.5.2024: Interview mit Frank Luerweg, zu „Riechverlust als Warnsignal“, in Gehirn&Geist 2024, 6: 60-65



- 16.5.2024: Interview mit Robert Eysoldt, zum Thema [„Die Nase, ein natürliches Frühwarnsystem“](#)

# Age Bombs

- 18.5.2024: Interview von Thomas Hummel mit Frau Hoferichter: Gesunde Gerüche in Gefahr. Achtung Geruchsverlust!

- 29.5.2024: Nicole Power Guerra und Thomas Hummel im Interview mit ARD „Künstliche Nasen bald im Riech-Vorteil?“, <https://www.tagesschau.de/wissen/forschung/roboternasen-100.html>



tagesschau

- Deutsche Welle: What is life like without smells? | DW Documentary <https://www.youtube.com/watch?v=N3VqTCitQic>

