

Report April – June 2022; Smell & Taste

Peer-reviewed Original Publications

- Oleszkiewicz A, Schriever VA, Valder C, Agosin E, Altundag A, Avni H, Cao Van H, Cornejo C, Fishman G, Guarneros M, Gupta N, Kamel R, Knaapila A, Konstantinidis I, Landis BN, Larsson M, Lundström JN, Macchi A, Marino-Sanchez F, Mori E, Mullol J, Parma V, Propst EJ, Sandell MA, Sorokowska A, Vodicka J, Hummel T, Gellrich J (2022) Hedonic perception of odors in children aged 5 to 8 years is similar across 18 countries. *Int J Ped Otolaryngol* (in press)
- D'Alessandro A, Grigorescu O, Höchenberger R, Ohla K, Hummel T (2022) A Bayesian adaptive algorithm (QUEST) to estimate olfactory threshold in hyposmic patients. *J Sens Studies* (in press)
- Haehner A, Chen B, Espin M, Haussmann R, Matthes C, Desser D, Loessner L, Donix M, Hummel T (2022) Training with odors impacts hippocampal thickness in patients with mild cognitive impairment. *J Alz Dis* (in press)
- Klimek L, Hagemann J, Hummel T, Altundag A, Hintschich C, Stielow S, Bousquet J (2022) Olfactory dysfunction is more severe in wild-type SARS-CoV-2 infection than in the Delta variant (B.1.617.2). *World Allergy Organ J*. 2022 May 12:100653.
- Li Z, Stolper S, Draf J, Haehner A, Hummel T (2022) Smell, taste and trigeminal function: similarities and differences between results from home tests and examinations in the clinic. *Rhinology* (in press)
- Hernandez AK, Juratli L, Haehner A, Hsieh JW, Landis BN, Hummel T (2022) Assessment of olfactory fluctuations in a clinical context. *Rhinology* (in press)
- Hintschich CA, Pade J, Petridis P, Hummel T (2022) Presurgical olfactory function as an indicator of the outcome of functional endoscopic sinus surgery in chronic rhinosinusitis with nasal polyps. *Eur Arch ORL* (in press)
- Lötsch J, Huster A, Hummel T (2022) Sorting of odor dilutions is a meaningful addition to established clinical tests of olfactory function as suggested by machine learning based analyses. *J Clin Med* (in press)

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

- Speth MM, Speth US, Sedaghat AR, Hummel T (2022) Riech- und Schmeckstörungen. *DGNeurologie*. <https://doi.org/10.1007/s42451-022-00434-x>
- Han P, Hummel T (2022) Assessment of food odor evoked emotions using functional magnetic resonance imaging. In: *Emotions, Senses and Foods*. Bensafi M (ed). Springer, New York (in press)
- Töpfner N, Alberer M, Ankermann T, Bender S, Berner R, de Laffolie J, Dingemann J, Heinicke D, Haas JP, Hufnagel M, Hummel T, Huppertz HI, Knuf M, Kobbe R, Lücke T, Riedel J, Rosenecker J, Wölfle J, Schneider B, Schneider D, Schriever V, Schroeder A, Stojanov S, Tenenbaum T, Trapp S, Vilser D, Brinkmann F, Behrends U. 2022. Einheitliche Basisversorgung von Kindern und Jugendlichen mit Long COVID - Stellungnahme einer multidisziplinären Arbeitsgruppe der DGKJ-Konvent-Gesellschaften (Stand: Februar 2022). *Monatsschr Kinderheilkd* 170: 1-9.

Abstracts

- [Multicentre study on the course of non-sinusal olfactory disorders](#) S Menzel, A Hähner, D Woosch, B Marquardt, C Ressel... - Laryngo-Rhino-Otologie, 2022
- [Olfactory dysfunction in Long-COVID](#) S Winkelmann, A Korth, B Voss, M Abou Nasr... - Laryngo-Rhino-Otologie, 2022
- [PDF] [Evaluation of the sense of smell and taste in patients with Neurofibromatosis Type 1](#) US Speth, MM Speth, T Hummel, M Gosau... - Laryngo-Rhino-Otologie, 2022
- [PDF] [Benefit of biologics in the treatment of severe chronic rhinosinusitis with polyyps \(CRSwNP\)-results after one year](#) P Nahrath, M Cuevas, T Hummel, T Zahnert - Laryngo-Rhino-Otologie, 2022
- [PDF] [Efficacy of omalizumab in the treatment of severe chronic rhinosinusitis with polyposis \(CRSwNP\)](#) N Gunder, M Cuevas, T Hummel, T Zahnert - Laryngo-Rhino-Otologie, 2022
- [Evaluation des Riech-und Schmecksinns bei Patienten mit Neurofibromatose Typ 1](#) US Speth, MM Speth, T Hummel, M Gosau... - Laryngo-Rhino-Otologie, 2022

Guests / Personnel / Visitors

- Clara dos Santos (medical student) from Sao Paolo ([Jundiaí Medical College](#)) visits from April 4th to April 30th, 2022
- Lea Kiefer, M.D., visits on the 7th of April 2022 from the Dept. of Dermatology, Charite, Berlin. <https://derma.charite.de/>
- Irina Hychak, M.D., [Medical and Diagnostic Center 'European Medicine', Poltava, Ukraine](#), starts her 4 week hospitation period on the 25th of April
- Corentin Thevent, student at the [National Graduate Engineering School, Institut Mines Telecom \(IMT\), Mines Albi \(France\)](#), starts his 4 month internship on the 15th of April
- 10th of May: Ilona Croy (Prof., Department of Clinical Psychology, Univ. of Jena) visits <https://www.klipsy.uni-jena.de/en>
- May 16-17 : Sotiria Genetzaki visits from the 2nd Academic ORL Department, Papageorgiou Hospital, Aristotle University, Thessaloniki
- May 24-25: Pavlina Brothanka from the Dept of ORL at the Univ of Pardubice visits. She presents on "TASENS: an automated system for taste testing"
- May 19th, 2022: Rikke Schriver Nielsen, Innovation Consultant CHBC, from Rigshospitalets Copenhagen Hearing & Balance Centre (CHBC) at the ENT dept., Copenhagen visits.
- June 1st: Eerika Ojanatakanen (1st year medical student) from Helsinki Medical University starts her one month visit
- June 8-9: Romain Dubreuil from [Aryballe \(Grenoble\)](#) and Evgenii Glushkov from [EPFL \(Lausanne\)](#) visit.
- June 20-25: [Dr. Nagesh C. Shanbhag](#) from the Department of Experimental Medical Science, Biomedical Centre, Sölvegatan 19, Lund University visits

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/xx (gesamt 243.105 €) 92.945 €

Thesis

- Constance Kähling, Dr. med., 21.06.2022: Entwicklung eines automatisierten Tests zur Erfassung der trigeminalen Sensitivität der Nasenschleimhaut
- Luise Wacker, Dr. med. dent., 21.06.2022: Analyse von olfaktorisch ereigniskorrelierten Potentialen und Erfassung von Leistungsdichten der Frequenzbänder zur Diagnostik von Riechstörungen
- Georg Lober, Dr. med., 3.5.2022: Unterschiede in der Verarbeitung von Duftreizen mit trigeminaler Komponente bei Patienten mit chronischer Rhinosinusitis und Rhinitis allergica
- Lisa Grzeschuchna, Dr. med., 3.5.2022: Zentralnervöse Verarbeitung gustatorischer Reize bei Patienten mit Schmeckstörungen im Vergleich zu gesunden Probanden

Courses, Presentations etc.:

- 5.5.2022: Thomas Hummel presents in Jena, at the symposium in honor of Prof. Hilmar Gudziol's 80th birthday: "Erfassung des Riechvermögens"
- 6.5.2022: Thomas Hummel presents in Asturias, Spain, at the symposium of the Spanish Network of Olfaction (ROE) on "[Diagnostics and treatment of olfactory loss](#)"
- 7.5.2022: Thomas Hummel presents at the „Versicherungsmedizinischer Jahreskongress der FGIMB e.V.: Begutachtung COVID19“ on "Riechverlust bei COVID19"
- April 20-23, 2022: 44th annual meeting of [ACHEMS](#), Bonita Springs, Florida, USA.



Asturias 2022
4-7 May, 2022



14. bis 18. April 2022
in der Ocean Adventure Lobby
FGIMB

Presentations by

- Akshita Joshi: Neural Associations Between Well-Being And Odor Perception
- Divesh Thaploo: Tensor Based Independent Component Analysis (Ica) Approach Towards Olfaction
- Anna Oleszkiewicz: Ambient Air Pollution And Olfactory Sensitivity In 11 Locations Across The Globe
- Thomas Hummel, Akshita Joshi: Practical session on chemopsensory testing
- Coralie Mignot: Central Processing Of Olfactory And Trigeminal Stimuli In Migraine Patients With And Without Aura
- Zetian Li: Smell, Taste And Trigeminal Function: Similarities And Differences Between Results From Home Tests And Examinations In The Clinic
- Yling Mai: Well-Being In Patients With Olfactory Dysfunction
- Agnieszka Sabiniewicz: Symptoms Of Depression Change With Olfactory Function
- Rumi Sekine: Perception Of Parosmias In Argentina, Germany, India, Japan, And The Philippines
- Henriette Zimmeck: Age-Related Changes In Responsiveness Of The Olfactory Epithelium



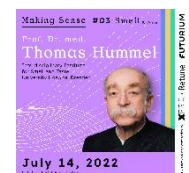
- Yunmeng Zhu: Taste Loss And Aging
- Antonia Gillmeister: Olfactory Training In Specific Anosmia: Association With Genetic Variations Of The Olfactory Receptor Hor7D4
- Michal Pieniak: Olfactory And Cognitive Effects Of Olfactory Training In Children After Mild Traumatic Brain Injury
- Jenny Knipping: The Effectiveness Of Structured Exposition To Odors On The Nociceptive And Olfactory Function In Children And Adolescents
- 16.5.2022: Divesh Thaploo, Dresden: The nasal cycle – A novel path to the brain
- 16.5.2022: Corentin Thevent, Dresden: A brain-sensing fragrance diffuser for mental state regulation using electroencephalography.
- 12.5.2022: Thomas Hummel presents at the conference on EL SENTIDO DEL OLFATO - Era COVID-19 y biológicos- <https://aventik.es/olfato> on “Clonical assessment of olfactory function” and “Olfactory training in smell loss”
- 20.5.2022: Divesh Thaploo presents at the **7th Forum Experiment** of the [Volkswagenstiftung](#) in Hannover on “The nasal cycle – a novel path to the brain”
- 21.5.2022: Thomas Hummel presents online at the [50th Congress of the Polish Society of Otolaryngologists and Head-Neck Surgeons](#) in Wrocław on “postviral and posttraumatic olfactory loss”, Anna Oleszkiewicz presents on “Olfactory training”
- 27./28.5.2022: Vorträge von Thoams Hummel beim Curso Internacional em imersao teorico-pratico olfato e pladar, MEU Otororino e 10, Sao Paulo
- 10th of June: Course in “Chemosensation” for Neuroscience students from the International Graduate Program Medical Neurosciences, Charité — Universitätsmedizin Berlin



Friday, 10th of June 2022			
		group A	group B
11:00	Arrival at house #3, top floor		
11:00-12:00	Hummel - smell, taste: general introduction		
12:00-12:45	Oleszkiewicz - neural plasticity		
12:45-13:45	break		
13:45-14:15	Mignot - sensory interactions, trigeminal system		
14:15-14:45	Faria - Neuroimaging in the olfactory system		
14:45-15:15	transfer to house #5, basement; short break		
15:15-15:35		Pieniak, Mignot - olfactometry, EEG/ERP/EOG data analysis	Joshi, Zhu - ortho- and retronassal olfactory tests, taste tests
15:35-15:55		Menzel - nasal endoscopy	Pieniak, Mignot - olfactometry, EEG/ERP/EOG data analysis
15:55-16:15		Joshi, Zhu - ortho- and retronassal olfactory tests, taste tests	Menzel - nasal endoscopy
16:15-16:30	Hummel - goodbye		
16:30	Transfer to train station		



- 11.6.2022: Antje Hähner presents on „Riechen und Schmerz“ at the beim Kopfschmerz- und Migränesymposium Nordost in Lübeck 10./11.6.
- 11.7.2022: Thomas Hummel presents at Futurium Lab Berlin, July 14, 2022



media:

- 1.4.2022: Interview von Thomas Hummel mit Regina Steffens, Spiegel Podacst, zum Thema „[Der Sommelier, der nicht mehr riechen konnte](#)“

- 15.6.2022: Interview bei MeinAllergiePortal zum Thema: „Geschmacksverlust durch Allergie: Was tun?“
- 21.6.2022: Interview von Thomas Hummel mit Andrea Saggau, Frau im Spiegel: „Geruchssinn weg – was nun?“
- 24.6.022: Interview of Thomas Hummel with Sarah de Weerd for Nature, Outlook, <https://www.nature.com/articles/d41586-022-01628-9> “How to bring back the sense of smell”
- 27.6.2022: Agnieszka Sabiniewicz has an interview with Beth Elwood from SciPost: “Symptoms of depression decrease with improvements in sense of smell, particularly among patients with dysosmia”
- <https://www.psypost.org/2022/06/symptoms-of-depression-decrease-with-improvements-in-sense-of-smell-particularly-among-patients-with-dysosmia-63405>

nature