



David T. Liu

Clinical Instructor, Otolaryngology (Head and Neck Surgery)

CLINICAL OFFICE (PRIMARY)

- **Otolaryngology Head and Neck Surgery**

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Bio

BIO

Dr. Liu is a Clinical Instructor at Stanford Otolaryngology — Head & Neck Surgery. He completed his MD at the Medical University of Graz and his PhD education (PhD in Clinical Neuroscience) at the Medical University of Vienna. He went on to complete his residency training in otolaryngology at the Vienna General Hospital. Dr. Liu's research interests include new treatment and diagnostic strategies for olfactory disorders and outcome research for sinus and skull base diseases.

CLINICAL FOCUS

- Endoscopic Sinus Surgery
- Endoscopic Skull Base Surgery
- Otolaryngic Allergy

ACADEMIC APPOINTMENTS

- Clinical Instructor, Otolaryngology (Head and Neck Surgery)

HONORS AND AWARDS

- Scientific award (First prize), Austrian ENT society (September 2023)
- Medical Scientific Grant, Mayor of Vienna (November 2022)
- Best Oral Presentation, "Working Group Olfaction and Gustation" of the German ENT society (December 2021)
- Theodor Billroth Scientific Award (Seal of Quality), Vienna Medical Chamber (November 2021)
- Poster award (First prize), Austrian ENT society (September 2021)
- Travel Grant, Foundation Rhinology, Utrecht (September 2021)
- Travel Grant, European Chemoreception Research Organization (ECRO) (August 2021)
- College Jubilee Fund, City of Vienna (February 2021)
- Science Scholarship, City of Vienna (February 2021)

- PhD Student of the Month, Medical University of Vienna (December 2020)
- Travel Grant, "Working Group Olfaction and Gustation" of the German ENT society (January 2020)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Executive Committee of the European Rhinologic Society (ERS) (2023 - present)
- Member, Executive Board of the „Working Group Olfaction and Gustation" of the German ENT society (2023 - present)
- Member, Scientific Program Committee of the 30th Congress of the European Rhinologic Society, ERS 2025 (2023 - present)
- President, Junior Members of the European Rhinologic Society (ERS) (2023 - present)
- Vice Chair, Young Confederation of European ORL-HNS (CEORL) (2022 - present)
- Scientific Chair, 67th Annual Meeting of the Austrian Society of Oto-Rhino-Laryngology, Head and Neck Surgery (2023 - 2023)
- Editorial Board, Rhinology (2023 - present)
- Review Editor, Frontiers in Surgery , Section Otorhinolaryngology - Head and Neck Surgery (2023 - present)
- Review Editor, Frontiers in Allergy, Section Rhinology (2022 - present)
- Member, Austrian Society of Oto-Rhino-Laryngology – Head and Neck Surgery (2018 - present)
- International Member, German Society of Oto-Rhino-Laryngology, Head and Neck Surgery (2018 - present)
- International Member, American Rhinologic Society (2019 - present)

PROFESSIONAL EDUCATION

- Board Certification: Otolaryngology, Austria Medical Chamber (2023)
- Residency: Medical University of Vienna (2023) Austria
- Medical Education: Medical University of Graz (2018) Austria
- Residency, Otolaryngology – Head and Neck Surgery, Vienna General Hospital, Medical University of Vienna, Austria (2023)
- PhD, Medical University of Vienna, Austria , Clinical Neuroscience (2021)
- Research Fellowship, Technical University of Dresden, Germany (2020)
- MD, Medical Universitz of Graz, Austria (2018)

LINKS

- Google Scholar: <https://scholar.google.fr/citations?user=ePP1HCcAAAAJ&hl=en>
- Researchgate: <https://www.researchgate.net/profile/David-Liu-25>

Publications

PUBLICATIONS

- **The olfactory diary: Tracking awareness and consciousness of the sense of smell throughout the day.** *Laryngoscope investigative otolaryngology*
Liu, D. T., Besser, G., Moser, V., Prem, B., Sharma, G., Ehrgott, M., Renner, B., Mueller, C. A.
2024; 9 (3): e1268
- **Changes in management of head and neck malignancies during the COVID-19 pandemic.** *Acta otorhinolaryngologica Italica : organo ufficiale della Societa italiana di otorinolaringologia e chirurgia cervico-facciale*
Lein, A., Brkic, F., Liu, D. T., Haas, M., Salkic, A., Ibrisevic, A., Uscuplic, S., Harcinovic, A., Thurner, T., Brkic, F. F.
2024
- **Real-Life Study of Patient Preference for Dupilumab or Revision Surgery for Recurrent Chronic Rhinosinusitis with Nasal Polyps** *JOURNAL OF PERSONALIZED MEDICINE*
Gangl, K., Liu, D., Bartosik, T., Campion, N., Vyskocil, E., Mueller, C., Knerer, B., Eckl-Dorna, J., Schneider, S.
2024; 14 (4)

- **Is the evolving role of artificial intelligence and chatbots in the field of otolaryngology embracing the future?** *European archives of oto-rhino-laryngology : official journal of the European Federation of Oto-Rhino-Laryngological Societies (EUFOS) : affiliated with the German Society for Oto-Rhino-Laryngology - Head and Neck Surgery*
Chiesa-Estomba, C. M., Speth, M. M., Mayo-Yanez, M., Liu, D. T., Maniaci, A., Borsetto, D.
2024; 281 (4): 2179-2180
- **Early Results With the New Active Bone-Conduction Hearing Implant: A Systematic Review and Meta-Analysis.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Lein, A., Baumgartner, W. D., Riss, D., Gstöttner, W., Landegger, L. D., Liu, D. T., Thurner, T., Vyskocil, E., Brkic, F. F.
2024
- **Presentation Rates for Acute Pharyngitis in the Emergency Room Are Influenced by Extreme Weather Events.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Haas, M., Lucic, M., Pichler, F., Brkic, F. F., Parzefall, T., Riss, D., Liu, D. T.
2024; 170 (3): 795-803
- **A scoping review of Rasch analysis and item response theory in otolaryngology: Implications and future possibilities** *LARYNGOSCOPE INVESTIGATIVE OTOLARYNGOLOGY*
Liu, D. T., Mueller, C. A., Sedaghat, A. R.
2024; 9 (1): e1208
- **Impact of the COVID-19 pandemic on management of surgically treated laryngeal squamous cell carcinoma.** *Biomolecules & biomedicine*
Lein, A., Liu, D. T., Haas, M., Salkic, A., Ibrisevic, A., Uscuplic, S., Harcinovic, A., Brkic, T., Thurner, T., Brkic, F. F.
2024; 24 (1): 188-195
- **Treatment adherence to olfactory training: a real-world observational study** *RHINOLOGY*
Haas, M., Raninger, J., Kaiser, J., Mueller, C. A., Liu, D. T.
2024; 62 (1): 35-45
- **Platelet-to-lymphocyte ratio might predict the response to dupilumab treatment for patients with nasal polyposis.** *Journal of otolaryngology - head & neck surgery = Le Journal d'oto-rhino-laryngologie et de chirurgie cervico-faciale*
Brkic, F. F., Liu, D. T., Rücklinger, I., Campion, N. J., Bartosik, T. J., Vyskocil, E., Stanek, V., Tu, A., Gangl, K., Schneider, S.
2023; 52 (1): 75
- **The association between acute otitis externa-related emergency department visits and extreme weather events in a temperate continental climate** *INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH*
Nieratschker, M., Haas, M., Lucic, M., Pichler, F., Brkic, F. F., Mueller, C. A., Riss, D., Liu, D. T.
2024; 255
- **Patient perspectives on recall period and response options in patient-reported outcome measures for chronic rhinosinusitis symptomatology: An international multi-centered study** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*
Sedaghat, A. R., Derbarsegian, A., Yu, V. T., Alsayed, A., Bitner, B. F., Yeom, B., Liu, D. T., Schneider, S., Adams, S. M., Houssein, F. A., Walters, Z. A., Tripathi, S., Walker, et al
2024; 14 (5): 898-908
- **Early on-treatment C-reactive protein and its kinetics predict survival and response in recurrent and/or metastatic head and neck cancer patients receiving first-line pembrolizumab.** *Investigational new drugs*
Haas, M., Lein, A., Fuereder, T., Schnoell, J., Brkic, F. F., Liu, D. T., Kadletz-Wanke, L., Heiduschka, G., Jank, B. J.
2023; 41 (5): 727-736
- **Low free triiodothyronine and immune-related hyperthyroidism are associated with overall and progression-free survival in head and neck squamous cell carcinoma treated with pembrolizumab.** *International immunopharmacology*
Haas, M., Lein, A., Fuereder, T., Schnoell, J., Brkic, F. F., Campion, N. J., Liu, D. T., Kadletz-Wanke, L., Heiduschka, G., Jank, B. J.
2023; 123: 110799
- **The "real life" efficacy of dupilumab is independent of initial polyp size and concomitant steroids in CRSwNP.** *Journal of otolaryngology - head & neck surgery = Le Journal d'oto-rhino-laryngologie et de chirurgie cervico-faciale*
Campion, N. J., Brugger, J., Tu, A., Stanek, V., Brkic, F. F., Bartosik, T. J., Liu, D. T., Hoehl, B. S., Gangl, K., Eckl-Dorna, J., Schneider, S.
2023; 52 (1): 56
- **Experience With the New Active Transcutaneous Bone-Conduction Implant With Smaller Dimensions.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*

- Brkic, F. F., Baumgartner, W. D., Schlott, M., Liu, D. T., Thurner, T., Riss, D., Gstöttner, W., Vyskocil, E.
2023; 169 (3): 615-621
- **Meteorological extremes and their impact on tinnitus-related emergency room visits: a time-series analysis.** *European archives of oto-rhino-laryngology : official journal of the European Federation of Oto-Rhino-Laryngological Societies (EUFOSS) : affiliated with the German Society for Oto-Rhino-Laryngology - Head and Neck Surgery*
Haas, M., Lucic, M., Pichler, F., Lein, A., Brkic, F. F., Riss, D., Liu, D. T.
2023; 280 (9): 3997-4007
 - **Fluctuations in emergency department visits related to acute otitis media are associated with extreme meteorological conditions.** *Frontiers in public health*
Nieratschker, M., Haas, M., Lucic, M., Pichler, F., Brkic, F. F., Parzefall, T., Riss, D., Liu, D. T.
2023; 11: 1153111
 - **Dupilumab reduces symptom burden in allergic rhinitis and suppresses allergen-specific IgE production.** *Allergy*
Campion, N. J., Doralt, A., Lupinek, C., Berger, M., Poglitsch, K., Brugger, J., Quint, T., Gangl, K., Sinz, C., Bartosik, T., Liu, D. T., Landegger, L. D., Tu, et al
2023; 78 (6): 1687-1691
 - **The nasal microbiome in patients suffering from non-steroidal anti-inflammatory drugs-exacerbated respiratory disease in absence of corticosteroids.** *Frontiers in immunology*
Bartosik, T. J., Campion, N. J., Freisl, K., Liu, D. T., Gangl, K., Stanek, V., Tu, A., Pjevac, P., Hausmann, B., Eckl-Dorna, J., Schneider, S.
2023; 14: 1112345
 - **Interobserver variability of cochlear duct measurements in pediatric cochlear implant candidates.** *European archives of oto-rhino-laryngology : official journal of the European Federation of Oto-Rhino-Laryngological Societies (EUFOSS) : affiliated with the German Society for Oto-Rhino-Laryngology - Head and Neck Surgery*
Salkic, A., Yildiz, E., Baumgartner, W. D., Tokic, L., Uscuplic, S., Sarihodzic, S., Brkic, F., Harcinovic, A., Liu, D. T., Brkic, F. F.
2023; 280 (4): 1647-1651
 - **Olfactory Dysfunction: Etiology, Diagnosis, and Treatment.** *Deutsches Arzteblatt international*
Hummel, T., Liu, D. T., Müller, C. A., Stuck, B. A., Welge-Lüssen, A., Hähner, A.
2023; 120 (9): 146-154
 - **Dupilumab increases aspirin tolerance in NSAID-exacerbated respiratory disease.** *The European respiratory journal*
Schneider, S., Poglitsch, K., Morgenstern, C., Quint, T., Gangl, K., Sinz, C., Bartosik, T., Campion, N. J., Liu, D. T., Landegger, L. D., Tu, A., Stanek, V., Rocha-Hasler, et al
2023; 61 (3)
 - **The Geriatric Nutritional Risk Index (GNRI) as a Prognostic Biomarker for Immune Checkpoint Inhibitor Response in Recurrent and/or Metastatic Head and Neck Cancer** *NUTRIENTS*
Haas, M., Lein, A., Fuereder, T., Brkic, F. F., Schnoell, J., Liu, D. T., Kadletz-Wanke, L., Heiduschka, G., Jank, B. J.
2023; 15 (4)
 - **Chronic Rhinosinusitis Outcome Registry (CHRINOSOR): Establishment of an International Outcome Registry Driven by mHealth Technology.** *The journal of allergy and clinical immunology. In practice*
Seys, S. F., Hellings, P. W., Alobid, I., Backer, V., Bequignon, E., von Buchwald, C., Cavaliere, C., Coste, A., Deneyer, L., Diamant, Z., Eckl-Dorna, J., Fokkens, W. J., Gane, et al
2023; 11 (2): 431-438.e2
 - **The psychophysical assessment of gustatory dysfunction in COVID-19** *CHEMICAL SENSES*
Hintschich, C. A., Liu, D. T., Hummel, T.
2023; 48
 - **Extreme weather conditions influence the frequency of epistaxis-related emergency room visits** *RHINOLOGY*
Haas, M., Lucic, M., Pichler, F., Brkic, F. F., Riss, D., Mueller, C. A., Liu, D. T.
2023; 61 (2): 144-152
 - **Efficacy and safety of switching between biologics in chronic rhinosinusitis with nasal polyps or N-ERD*** *RHINOLOGY*
Brkic, F. F., Liu, D. T., Klimbacher, R., Campion, N. J., Bartosik, T. J., Vyskocil, E., Stanek, V., Tu, A., Arnoldner, T., Bangert, C., Gangl, K., Eckl-Dorna, J., Schneider, et al

2023; 61 (4): 320-+

- **A homozygous *AP3D1* missense variant in patients with sensorineural hearing loss as the leading manifestation** *HUMAN GENETICS*
Frohne, A., Koenighofer, M., Cetin, H., Nieratschker, M., Liu, D. T., Laccone, F., Neesen, J., Nemeč, S. F., Schwarz-Nemeč, U., Schoefer, C., Avraham, K. B., Frei, K., Grabmeier-Pfistershammer, et al
2023; 142 (8): 1077-1089
- **Eating behavior in patients with smell loss.** *Frontiers in nutrition*
Liu, D. T., Prem, B., Sharma, G., Kaiser, J., Besser, G., Mueller, C. A.
2022; 9: 993639
- **Pediatric olfactory home testing using regular household items: A cross-over validation study.** *International journal of pediatric otorhinolaryngology*
Jaramillo, L., van Egmond-Froehlich, A., Liu, D. T., Prem, B., Renner, B., Mueller, C. A., Besser, G.
2022; 158: 111173
- **Peripheral eosinophil count and eosinophil-to-lymphocyte ratio are associated with revision sinus surgery** *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*
Bayer, K., Hamidovic, S., Brkic, F. F., Besser, G., Mueller, C. A., Liu, D. T.
2023; 280 (1): 183-190
- **Changes in Acoustic Aspects of Vocal Function in Children After Adenotonsillectomy** *JOURNAL OF VOICE*
Brkic, F. F., Liu, D., Campion, N., Leonhard, M., Altumbabic, S., Korlatovic, M., Kaider, A., Kabil-Hamidovic, J., Brkic, F., Vyskocil, E.
2022; 36 (3): 438.e19-438.e24
- **Depression Symptoms and Olfactory-related Quality of Life** *LARYNGOSCOPE*
Liu, D. T., Prem, B., Sharma, G., Kaiser, J., Besser, G., Mueller, C. A.
2022; 132 (9): 1829-1834
- **Dedicated Olfaction and Taste Items do not Improve Psychometric Performance of the SNOT-22** *LARYNGOSCOPE*
Liu, D. T., Phillips, K. M., Houssein, F. A., Speth, M. M., Besser, G., Mueller, C. A., Sedaghat, A. R.
2022; 132 (8): 1644-1651
- **Factors Associated with Revision Sinus Surgery in Patients with Chronic Rhinosinusitis** *JOURNAL OF PERSONALIZED MEDICINE*
Bayer, K., Hamidovic, S., Besser, G., Mueller, C. A., Liu, D. T.
2022; 12 (2)
- **Progressive Sensorineural Hearing Loss in Vibrant Soundbridge Users Requiring Cochlear Implantation** *JOURNAL OF PERSONALIZED MEDICINE*
Brkic, F. F., Baumgartner, W., Riss, D., Thurner, T., Liu, D. T., Gstoettner, W., Vyskocil, E.
2022; 12 (2)
- **Chronic rhinosinusitis symptoms differentially impact the likelihood of major depressive disorders** *LARYNGOSCOPE INVESTIGATIVE OTOLARYNGOLOGY*
Liu, D. T., Bartosik, T. J., Campion, N. J., Bayer, K., Tu, A., Victoria, S., Besser, G., Mueller, C. A., Gangl, K., Eckl-Dorna, J., Schneider, S.
2022; 7 (1): 29-35
- **Seasonal Variations in Public Inquiries into Laryngitis: An Infodemiology Study** *JOURNAL OF VOICE*
Liu, D., Besser, G., Leonhard, M., Bartosik, T., Parzefall, T., Brkic, F. F., Mueller, C., Riss, D.
2022; 36 (1): 98-105
- **Long-lasting olfactory dysfunction in COVID-19 patients** *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*
Prem, B., Liu, D. T., Besser, G., Sharma, G., Dultinger, L. E., Hofer, S., Matiasczyk, M. M., Renner, B., Mueller, C. A.
2022; 279 (7): 3485-3492
- **Olfactory-related Quality of Life Adjustments in Smell Loss during the Coronavirus-19 Pandemic** *AMERICAN JOURNAL OF RHINOLOGY & ALLERGY*
Liu, D. T., Prem, B., Besser, G., Renner, B., Mueller, C. A.
2022; 36 (2): 253-260
- **Bitter Taste Disrupts Spatial Discrimination of Piperine-Evoked Burning Sensations: A Pilot Study** *BIOLOGY-BASEL*

- Liu, D. T., Besser, G., Bayer, K., Prem, B., Mueller, C. A., Renner, B.
2021; 10 (9)
- **Exploring possibilities for shortening the 22-item Sino-Nasal Outcome Test (SNOT-22) using item response theory** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*
Liu, D. T., Phillips, K. M., Speth, M. M., Besser, G., Mueller, C. A., Sedaghat, A. R.
2022; 12 (2): 191-199
 - **Response to: HEPA Filters and Airborne Viruses, Bacteria, and Fungi** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Liu, D. T., Phillips, K. M., Sedaghat, A. R.
2022; 166 (5): 1005-1006
 - **Flavor Enhancement in Daily Life of Patients with Olfactory Dysfunction** *CHEMOSENSORY PERCEPTION*
Koenighofer, M., Niebauer, V., Liu, D., Renner, B., Besser, G., Mueller, C. A.
2022; 15 (1): 8-18
 - **High Prevalence of MYO6 Variants in an Austrian Patient Cohort With Autosomal Dominant Hereditary Hearing Loss** *OTOLOGY & NEUROTOLOGY*
Frohne, A., Koenighofer, M., Liu, D., Laccone, F., Neesen, J., Gstoettner, W., Schoefer, C., Lucas, T., Frei, K., Parzefall, T.
2021; 42 (6): E648-E657
 - **Item Response Theory for Psychometric Properties of the SNOT-22 (22-Item Sinonasal Outcome Test)** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Liu, D. T., Phillips, K. M., Speth, M. M., Besser, G., Mueller, C. A., Sedaghat, A. R.
2022; 166 (3): 580-588
 - **Biannual Differences in Interest Peaks for Web Inquiries Into Ear Pain and Ear Drops: Infodemiology Study** *JOURNAL OF MEDICAL INTERNET RESEARCH*
Brkic, F. F., Besser, G., Schally, M., Schmid, E. M., Parzefall, T., Riss, D., Liu, D. T.
2021; 23 (6): e28328
 - **Portable HEPA Purifiers to Eliminate Airborne SARS-CoV-2: A Systematic Review** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Liu, D. T., Phillips, K. M., Speth, M. M., Besser, G., Mueller, C. A., Sedaghat, A. R.
2022; 166 (4): 615-622
 - **Self-perceived Taste and Flavor Perception: Associations With Quality of Life in Patients With Olfactory Loss** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Liu, D. T., Besser, G., Prem, B., Sharma, G., Speth, M. M., Sedaghat, A. R., Mueller, C. A.
2021; 164 (6): 1330-1336
 - **Retronasal olfactory testing in early diagnosed and suspected COVID-19 patients: a 7-week follow-up study** *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*
Prem, B., Liu, D., Besser, G., Renner, B., Mueller, C.
2022; 279 (1): 257-265
 - **PRKCA Overexpression Is Frequent in Young Oral Tongue Squamous Cell Carcinoma Patients and Is Associated with Poor Prognosis** *CANCERS*
Parzefall, T., Schnoell, J., Monschein, L., Foki, E., Liu, D., Frohne, A., Grasl, S., Pammer, J., Lucas, T., Kadletz, L., Brunner, M.
2021; 13 (9)
 - **Annual trends in Google searches provides insights related to rhinosinusitis exacerbations** *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*
Liu, D. T., Schally, M., Schneider, S., Eckl-Dorna, J., Phillips, K. M., Mueller, C. A., Sedaghat, A. R., Besser, G.
2022; 279 (1): 213-223
 - **Individual importance of olfaction decreases with duration of smell loss** *RHINOLOGY*
Liu, D. T., Besser, G., Prem, B., Speth, M. M., Sedaghat, A. R., Mueller, C. A.
2021; 59 (1): 32-39
 - **Multi-institutional minimal clinically important difference of the 22-item Sinonasal Outcome Test in medically managed chronic rhinosinusitis** *RHINOLOGY*

- Phillips, K. M., Houssein, F. A., Boeckermann, L. M., Singerman, K. W., Liu, D. T., Sedaghat, A. R.
2021; 59 (6): 552-559
- **Factors associated with relevant olfactory recovery after olfactory training: a retrospective study including 601 participants** *RHINOLOGY*
Liu, D. T., Pellegrino, R., Sabha, M., Altundag, A., Damm, M., Poletti, S. C., Croy, I., Haehner, A., Oleszkiewicz, A., Mandy, C., Hummel, T.
2021; 59 (1)
 - **Decrease and Recovery of Olfactory and Gustatory Function in a Case of SARS-CoV-2 Infection** *ORL-JOURNAL FOR OTO-RHINO-LARYNGOLOGY HEAD AND NECK SURGERY*
Liu, D., Prem, B., Besser, G., Mueller, C., Renner, B.
2021; 83 (2): 130-133
 - **The association between COVID-19 cases and deaths and web-based public inquiries** *INFECTIOUS DISEASES*
Schnoell, J., Besser, G., Jank, B. J., Bartosik, T. J., Parzefall, T., Riss, D., Mueller, C. A., Liu, D.
2021; 53 (3): 176-183
 - **Parosmia is Associated with Relevant Olfactory Recovery After Olfactory Training** *LARYNGOSCOPE*
Liu, D. T., Sabha, M., Damm, M., Philpott, C., Oleszkiewicz, A., Haehner, A., Hummel, T.
2021; 131 (3): 618-623
 - **Radiological Markers of the Olfactory Cleft: Relations to Unilateral Orthonasal and Retronasal Olfactory Function** *DIAGNOSTICS*
Liu, D. T., Schwarz-Nemec, U., Renner, B., Mueller, C. A., Besser, G.
2020; 10 (11)
 - **Assessment of odor hedonic perception: the Sniffin' sticks parosmia test (SSParoT)** *SCIENTIFIC REPORTS*
Liu, D. T., Welge-Lussen, A., Besser, G., Mueller, C. A., Renner, B.
2020; 10 (1): 18019
 - **Long-term impact of olfactory dysfunction on daily life** *WIENER KLINISCHE WOCHENSCHRIFT*
Auinger, A. B., Besser, G., Liu, D. T., Renner, B., Mueller, C. A.
2021; 133 (19-20): 1004-1011
 - **Differences in men and women suffering from CRSwNP and AERD in quality of life** *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*
Bartosik, T. J., Liu, D. T., Campion, N. J., Villazala-Merino, S., Janik, S., Dahm, V., Mueller, C. A., Vyskocil, E., Stanek, V., Quint, T., Bangert, C., Eckl-Dorna, J., Schneider, et al
2021; 278 (5): 1419-1427
 - **Peaks in online inquiries into pharyngitis-related symptoms correspond with annual incidence rates** *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*
Brkic, F. F., Besser, G., Janik, S., Gadenstaetter, A. J., Parzefall, T., Riss, D., Liu, D. T.
2021; 278 (5): 1653-1660
 - **Ortho- and retronasal olfactory performance in rhinosurgical procedures: a longitudinal comparative study** *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*
Besser, G., Liu, D. T., Sharma, G., Bartosik, T. J., Kaphle, S., Ensslin, M., Renner, B., Mueller, C. A.
2021; 278 (2): 397-403
 - **Association Between Orthonasal Olfaction and Chemosensory Perception in Patients With Smell Loss** *LARYNGOSCOPE*
Liu, D. T., Besser, G., Prem, B., Sharma, G., Koenighofer, M., Renner, B., Mueller, C. A.
2020; 130 (9): 2213-2219
 - **Odor Mixtures in Identification Testing Using Sniffin' Sticks: The SSomix Test** *SCIENTIFIC REPORTS*
Liu, D., Besser, G., Lang, M., Sharma, G., Pablik, E., Renner, B., Mueller, C.
2020; 10 (1): 8155
 - **Ecrcine porocarcinoma of the head and neck: Meta-analysis of 120 cases** *HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK*
Le, N., Janik, S., Liu, D. T., Grasl, S., Faisal, M., Pammer, J., Schickinger-Fischer, B., Hamzavi, J., Seemann, R., Erovcic, B. M.
2020; 42 (9): 2644-2659

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