

# Stanford

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## Konstantina M. Stankovic, MD, PhD, FACS

Bertarelli Foundation Professor and Professor of Otolaryngology - Head & Neck Surgery (OHNS) and, by courtesy, of Neurosurgery

Otolaryngology (Head and Neck Surgery)

### CLINICAL OFFICE (PRIMARY)

- **Stanford Ear Institute**

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### ACADEMIC CONTACT INFORMATION

- **Executive Assistant**

Erin Sullivan

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### Bio

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#### BIO

Dr. Stankovic is a board-certified, fellowship-trained otolaryngologist-head and neck surgeon. She is the Bertarelli Foundation Professor and Chair of Otolaryngology–Head and Neck Surgery. She is also a professor, by courtesy, of Neurosurgery.

Dr. Stankovic is a recognized leader in providing state-of-the-art treatment for people with hearing loss. She complements her ear and skull base surgical skills with training in physics, molecular biology, and electrophysiology. Her multidisciplinary expertise in medicine and science enables her to develop uniquely effective solutions to the unmet needs of the hearing-impaired.

She has extensive experience in diagnosing and treating sensorineural hearing loss that results from damage to the inner ear. This is the most common sensory disorder in the world, but effective cures for it do not yet exist.

For every patient, she prepares a personalized care plan. Each plan is complete, compassionate, and dedicated to restoring the patient’s hearing and quality of life as fully as possible.

Dr. Stankovic directs the Stanford Medicine Molecular Neurotology Laboratory. Her research focuses on how to overcome hearing disorders compounded by the small size and complex three-dimensional structure of the inner ear. Her approach is shaped by collaborations with international technology leaders, including developers of ultra-low-power electronics and nonlinear optics.

She has led research studies investigating optical imaging of cells inside the inner ear. She also has participated in research to develop a chip that enables a fully implantable cochlear implant. Other research projects of Dr. Stankovic include new strategies for the prevention of intracranial tumors that cause hearing loss.

She previously directed the Stankovic Molecular Neurotology and Biotechnology Laboratory at Harvard. Her lab was part of the world's largest research center for the study of hearing and deafness.

She has published the results of her research in prestigious medical and scientific journals, including the New England Journal of Medicine, Nature Biotechnology, Science Translational Medicine, Nature Communications, Nature Protocols, Nature's Communications Medicine, Proceedings of the National Academy of Sciences. Topics have included advances in the diagnosis and management of vestibular schwannoma, gene therapy and drug repurposing for hearing loss, energy extraction from the inner ear to supply electronics, development of human cellular models of hearing loss, and innovations in cranial nerve stimulation.

She has earned numerous awards for her achievements. The American Academy of Otolaryngology–Head and Neck Surgery, American Otological Society, United States Department of Defense, National Organization for Hearing Research, National Institute on Deafness and Other Communications Disorders have recognized her leadership in clinical care, research, and academics.

Dr. Stankovic is a fellow of the American College of Surgeons and a fellow of the American Neurotology Society. She is an elected member of the American Otological Society and Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum, the most authoritative international society of otorhinolaryngologists, and a former president of the American Auditory Society.

## **CLINICAL FOCUS**

- Otology and Neurotology
- Hearing loss
- Cochlear implantation
- Otosclerosis
- Vestibular schwannomas/ Acoustic Neuromas
- Cholesteatoma
- Tympanoplasty
- Tumors of temporal bone
- Neurotology

## **ACADEMIC APPOINTMENTS**

- Professor, Otolaryngology (Head and Neck Surgery)
- Professor (By courtesy), Neurosurgery
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

## **HONORS AND AWARDS**

- Blue Ribbon Panel as an external reviewer, National Institute on Deafness and Other Communication Disorder (NIDCD)'s intramural program
- Strategic planning panel, NIDCD
- Dr. John Niparko Memorial Lecture, American Cochlear Implant Alliance
- Guest of Honor Lecture, American Otological Society
- Sheldon and Dorothea Buckler Chair in Otolaryngology, Massachusetts Eye and Ear
- Howard P. House, MD Memorial Lecture for Advances in Otology, American Academy of Otolaryngology – Head and Neck Surgery
- Benjamins Prize for Research, Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum

- Neurofibromatosis Research Program (NFRP) Featured Investigator, Department of Defense
- Elected Member, American Otological Society
- Thomas A. McMahon Mentoring Award, Harvard-MIT Division of Health Sciences and Technology
- President, American Auditory Society
- Fellow, American Neurotology Society
- Fellow, American College of Surgeons
- Burt Evans Young Investigator Award, National Organization for Hearing Research
- Henry Asbury Christian Award for Outstanding Research and Scholarly Activities, Harvard Medical School
- Award for Highest Degree of Academic Excellence and Professional Promise, Association of MIT Alumnae (AMITA)
- Elected Member, Phi Beta Kappa, Sigma Xi, Sigma Pi Sigma Honor Societies

### **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Honorary Corresponding Member, Germany Society of Otorhinolaryngology Head and Neck Surgery (2021 - present)
- Executive Committee, Harvard Speech and Hearing Bioscience and Technology (SHBT) PhD Program (2019 - 2021)
- Elected Member, Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum (2018 - present)
- External Advisory Committee, Harvard-MIT Division of Health Sciences and Technology (2017 - 2021)
- Elected Member, American Otological Society (2015 - present)
- President, American Auditory Society (2014 - 2014)
- Recombinant DNA Advisory Committee, National Institutes of Health (2013 - 2013)
- Fellow, American Neurotology Society (2012 - present)
- Fellow, American College of Surgeons (2011 - present)

### **PROFESSIONAL EDUCATION**

- Board Certification, American Board of Otolaryngology – Head and Neck Surgery , Otolaryngology – Head and Neck Surgery
- Board Certification, American Board of Neurotology , Neurotology
- Fellowship, Massachusetts Eye and Ear, Harvard Medical School , Clinical Fellowship, Neurotology – Skull Base Surgery
- Fellowship, Howard Hughes Medical Institute and Boston Children’s Hospital , Research Fellowship, Molecular Neuroscience
- Residency, Harvard Medical School , Otolaryngology – Head and Neck Surgery
- Medical Degree, Harvard Medical School and Harvard-MIT Division of Health Sciences and Technology
- Doctor of Philosophy (Ph.D.), MIT and Harvard—MIT Division of Health Sciences and Technology , Speech and Hearing Bioscience and Technology
- BS, Massachusetts Institute of Technology , Physics
- BS, Massachusetts Institute of Technology , Biology

### **LINKS**

- Department of Otolaryngology - Head and Neck Surgery: <https://med.stanford.edu/ohns.html>
- Stankovic Research Lab: <https://med.stanford.edu/stankovic-lab.html>

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

As a practicing surgeon trained in basic science, I have focused on improving diagnostics, prognostics and therapeutics for sensorineural hearing loss by identifying and overcoming barriers to hearing restoration. Sensorineural hearing loss is the world’s most common sensory deficit and most common congenital anomaly for which

effective cures do not yet exist. Hearing loss is physically and emotionally costly to individuals, and economically costly to society, as it has been linked to social isolation, cognitive dysfunction, and an increased risk for depression and dementia. The total number of people suffering from hearing loss worldwide is anticipated to be 2.5 billion by 2050.

Our overarching goal is to adopt existing and develop new technologies for diagnosis and treatment of inner ear disorders. Our approach exploits the cochlea's unique chemical, electrical and cellular microenvironment. I have been dedicated to the hearing field since my undergraduate studies. With my training in physics, molecular biology, auditory neuroscience, systems electrophysiology and otologic surgery, we take a cross-disciplinary approach to address the unmet needs of the hearing-impaired. To overcome the limitations intrinsic to the small size and complex three-dimensional structure of the inner ear, our approach is shaped by clinical insights, and by interdisciplinary collaborations with international leaders of technology development, including in ultra-low power electronics and nonlinear optics.

## CLINICAL TRIALS

- Study of Aspirin in Patients With Vestibular Schwannoma, Recruiting

## Teaching

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### STANFORD ADVISEES

#### Med Scholar Project Advisor

Nirvikalpa Natarajan

#### Postdoctoral Faculty Sponsor

Dongjun Han, Sophie Jang

#### Postdoctoral Research Mentor

Mitsuo Sato

## Publications

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### PUBLICATIONS

- **Human otic progenitor cell models of congenital hearing loss reveal potential pathophysiologic mechanisms of Zika virus and cytomegalovirus infections.** *mBio*  
Harding, A. T., Ocwieja, K., Jeong, M., Zhang, Y., Leger, V., Jhala, N., Stankovic, K. M., Gehrke, L.  
2024; e0019924
- **Correction: Natarajan et al. Noise-Induced Hearing Loss.** *J. Clin. Med.* **2023**, *12*, 2347. *Journal of clinical medicine*  
Natarajan, N., Batts, S., Stankovic, K. M.  
2024; 13 (4)
- **Surgical Considerations in Inner Ear Gene Therapy from Human Temporal Bone Anatomy.** *The Laryngoscope*  
Brown, A., Zhu, M., Rohani, A., Ladak, H., Agrawal, S. K., Stankovic, K. M., Welling, D. B.  
2024
- **Tinnitus prevalence, associated characteristics, and related healthcare use in the United States: a population-level analysis.** *Lancet regional health. Americas*  
Batts, S., Stankovic, K. M.  
2024; 29: 100659
- **Genetic Discovery Enabled by A Large Language Model.** *bioRxiv : the preprint server for biology*  
Tu, T., Fang, Z., Cheng, Z., Spasic, S., Palepu, A., Stankovic, K. M., Natarajan, V., Peltz, G.  
2023
- **Identification of immune-related candidate biomarkers in plasma of patients with sporadic vestibular schwannoma.** *Science advances*

- Vasilijic, S., Atai, N. A., Hyakusoku, H., Worthington, S., Ren, Y., Sagers, J. E., Sahin, M. I., Brown, A., Reddy, R., Malhotra, C., Fujita, T., Landegger, L. D., Lewis, et al  
2023; 9 (45): eadf7295
- **Promoting Surgeon-Scientists in Otolaryngology-Head and Neck Surgery-From Bench to Bedside.** *JAMA otolaryngology-- head & neck surgery*  
Kosaraju, N., Keating, D. P., Kim, G. S., Moore, L. S., Stankovic, K. M.  
2023
  - **Current and Emerging Therapies for Chronic Subjective Tinnitus.** *Journal of clinical medicine*  
Park, K. W., Kullar, P., Malhotra, C., Stankovic, K. M.  
2023; 12 (20)
  - **Immune Profiling of Secreted Factors from Human Vestibular Schwannoma Cells and Tumor-associated Macrophages.** *The Laryngoscope*  
Stankovic, K. M., Batts, S., Welling, D. B., Vasilijic, S.  
2023
  - **Potential Ototoxicity of Insulin-like Growth Factor 1 Receptor Signaling Inhibitors: An In Silico Drug Repurposing Study of the Regenerating Cochlear Neuron Transcriptome.** *Journal of clinical medicine*  
Bertagnoli, L. E., Seist, R., Batts, S., Stankovic, K. M.  
2023; 12 (10)
  - **The Future of Vestibular Schwannoma Management.** *Otolaryngologic clinics of North America*  
Moore, L. S., Stankovic, K. M.  
2023
  - **Comparative Transcriptomic Analysis of Archival Human Vestibular Schwannoma Tissue from Patients with and without Tinnitus.** *Journal of clinical medicine*  
Bommakanti, K., Seist, R., Kukutla, P., Cetinbas, M., Batts, S., Sadreyev, R. I., Stemmer-Rachamimov, A., Brenner, G. J., Stankovic, K. M.  
2023; 12 (7)
  - **Noise-Induced Hearing Loss.** *Journal of clinical medicine*  
Natarajan, N., Batts, S., Stankovic, K. M.  
2023; 12 (6)
  - **Association of Plasma Metabolomic Biomarkers With Persistent Tinnitus: A Population-Based Case-Control Study.** *JAMA otolaryngology-- head & neck surgery*  
Zeleznik, O. A., Welling, D. B., Stankovic, K., Frueh, L., Balasubramanian, R., Curhan, G. C., Curhan, S. G.  
2023
  - **Associations of Tinnitus Incidence with Use of Tumor Necrosis Factor-Alpha Inhibitors among Patients with Autoimmune Conditions.** *Journal of clinical medicine*  
Natarajan, N., Batts, S., Gombar, S., Manickam, R., Sagi, V., Curhan, S. G., Stankovic, K. M.  
2023; 12 (5)
  - **Genome-wide screen of otosclerosis in population biobanks: 27 loci and shared associations with skeletal structure.** *Nature communications*  
Ramo, J. T., Kiiskinen, T., Seist, R., Krebs, K., Kanai, M., Karjalainen, J., Kurki, M., Hamalainen, E., Happola, P., Havulinna, A. S., Hautakangas, H., FinnGen, Magi, R., et al  
2023; 14 (1): 157
  - **Mortui vivos docent: a modern revival of temporal bone plug harvests.** *Frontiers in neuroscience*  
Sagi, V., Kosaraju, N., Moore, L. S., Mulders, J. Y., Solyali, M., Ma, X., Regula, D. P., Hooper, J. E., Stankovic, K. M.  
2023; 17: 1242831
  - **miR-431 secreted by human vestibular schwannomas increases the mammalian inner ear's vulnerability to noise trauma.** *Frontiers in neurology*  
Fujita, T., Seist, R., Kao, S., Soares, V., Panano, L., Khetani, R. S., Landegger, L. D., Batts, S., Stankovic, K. M.  
2023; 14: 1268359
  - **Polystyrene nanoplastics affect transcriptomic and epigenomic signatures of human fibroblasts and derived induced pluripotent stem cells: Implications for human health.** *Environmental pollution (Barking, Essex : 1987)*  
Stojkovic, M., Ortuño Guzmán, F. M., Han, D., Stojkovic, P., Dopazo, J., Stankovic, K. M.  
2022: 120849

- **A fluorescent photoimmunoconjugate for imaging of cholesteatoma.** *Scientific reports*  
Early, S., Saad, M. A., Mallidi, S., Mansour, A., Seist, R., Hasan, T., Stankovic, K. M.  
2022; 12 (1): 19905
- **Toward Personalized Diagnosis and Therapy for Hearing Loss: Insights From Cochlear Implants.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*  
Sagi, V., Stankovic, K. M.  
2022; 43 (8): e903-e909
- **Association of Stapedotomy Volume and Patient Sex With Better Outcome.** *JAMA otolaryngology-- head & neck surgery*  
Cahill, G., Wang, A. A., Lee, K., Sakagami, M., Welling, D. B., Stankovic, K. M.  
2022
- **Magnetic stimulation allows focal activation of the mouse cochlea.** *eLife*  
Lee, J. I., Seist, R., McInturff, S., Lee, D. J., Brown, M. C., Stankovic, K. M., Fried, S.  
2022; 11
- **Celastrol suppresses the growth of vestibular schwannoma in mice by promoting the degradation of beta-catenin.** *Acta pharmacologica Sinica*  
Kim, N. H., Kwon, M., Jung, J., Chae, H. B., Lee, J., Yoon, Y., Moon, I. S., Lee, H. K., Namkung, W., Stankovic, K. M., Lee, S. A., Lee, J. D., Park, et al  
2022
- **Infectious Complications Following Cochlear Implant: Risk Factors, Natural History, and Management Patterns.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*  
Moon, P. K., Qian, Z. J., Ahmad, I. N., Stankovic, K. M., Chang, K. W., Cheng, A. G.  
2022: 1945998221082530
- **Human vestibular schwannoma reduces density of auditory nerve fibers in the osseous spiral lamina.** *Hearing research*  
Eggink, M. C., Frijns, J. H., Sagers, J. E., O'Malley, J. T., Liberman, M. C., Stankovic, K. M.  
2022; 418: 108458
- **Sporadic Vestibular Schwannoma Size and Location Do not Correlate With the Severity of Hearing Loss at Initial Presentation.** *Frontiers in oncology*  
Brown, A., Early, S., Vasilijic, S., Stankovic, K. M.  
2022; 12: 836504
- **Choice of vector and surgical approach enables efficient cochlear gene transfer in nonhuman primate.** *Nature communications*  
Andres-Mateos, E., Landegger, L. D., Unzu, C., Phillips, J., Lin, B. M., Dewyer, N. A., Sanmiguel, J., Nicolaou, F., Valero, M. D., Bourdeu, K. I., Sewell, W. F., Beiler, R. J., McKenna, et al  
2022; 13 (1): 1359
- **Reversible contrast enhancement for visualization of human temporal bones using micro computed tomography.** *Frontiers in surgery*  
Bommakanti, K. K., Iyer, J. S., Sagi, V., Brown, A., Ma, X., Gonzales, M., Stankovic, K. M.  
2022; 9: 952348
- **Imbalance and dizziness caused by unilateral vestibular schwannomas correlate with vestibulo-ocular reflex precision and bias** *J Neurophysiol .*  
King, S., Dahlem, K., Karmali, F., Stankovic, K. M., Welling, D. B., Lewis, R. F.  
2022; 127 (2): 596-606
- **Accelerated Long-Term Hearing Loss Progression After Recovery From Idiopathic Sudden Sensorineural Hearing Loss** *FRONTIERS IN NEUROLOGY*  
Early, S., van der Valk, J. C., Frijns, J. M., Stankovic, K. M.  
2021; 12: 738942
- **Editorial: Emerging Ototoxic Medications and Their Role in Cochlear and Vestibular Disorders.** *Frontiers in neurology*  
Szczepek, A. J., Stankovic, K. M.  
2021; 12: 773714
- **Implementation of Mobile Audiometry During the COVID-19 Pandemic** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Garcia, A., Chari, D. A., Stankovic, K. M., Lee, D. J., Kozin, E. D., Franck, K. H.  
2021: 1945998211051588
- **Conductive hearing loss in the Hyp mouse model of X-linked hypophosphatemia is accompanied by hypomineralization of the auditory ossicles.** *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*

- Delsmann, M. M., Seist, R., Sturznicke, J., Schmidt, F. N., Mansour, A., Kobelski, M. M., Broocks, G., Peichl, J., Oheim, R., Praetorius, M., Schinke, T., Amling, M., Demay, et al  
2021
- **Endomicroscopy of the human cochlea using a micro-optical coherence tomography catheter.** *Scientific reports*  
Iyer, J. S., Yin, B., Stankovic, K. M., Tearney, G. J.  
2021; 11 (1): 17932
  - **The AAV9 Variant Capsid AAV-F Mediates Widespread Transgene Expression in Nonhuman Primate Spinal Cord After Intrathecal Administration.** *Human gene therapy*  
Beharry, A., Gong, Y., Kim, J. C., Hanlon, K. S., Nammour, J., Hieber, K., Eichler, F., Cheng, M., Stemmer-Rachamimov, A., Stankovic, K. M., Welling, D. B., Ng, C., Maguire, et al  
2021
  - **Re-engineering the Surgeon-Scientist Pipeline: Advancing Diversity and Equity to Fuel Scientific Innovation.** *The Laryngoscope*  
Munjal, T., Nathan, C., Brenner, M. J., Stankovic, K. M., Francis, H. W., Valdez, T. A.  
2021
  - **Two Photon Fluorescence Microscopy of the Unstained Human Cochlea Reveals Organ of Corti Cytoarchitecture** *FRONTIERS IN CELLULAR NEUROSCIENCE*  
Iyer, J. S., Seist, R., Moon, I., Stankovic, K. M.  
2021; 15: 690953
  - **Losartan prevents tumor-induced hearing loss and augments radiation efficacy in NF2 schwannoma rodent models.** *Science translational medicine*  
Wu, L., Vasilijic, S., Sun, Y., Chen, J., Landegger, L. D., Zhang, Y., Zhou, W., Ren, J., Early, S., Yin, Z., Ho, W. W., Zhang, N., Gao, et al  
2021; 13 (602)
  - **Special Series: Stem Cells and Hearing Loss** *STEM CELLS*  
Lako, M., Stankovic, K. M., Stojkovic, M.  
2021; 39 (7): 835-837
  - **Human induced pluripotent stem cells and CRISPR/Cas-mediated targeted genome editing: Platforms to tackle sensorineural hearing loss.** *Stem cells (Dayton, Ohio)*  
Stojkovic, M., Han, D., Jeong, M., Stojkovic, P., Stankovic, K. M.  
2021; 39 (6): 673-696
  - **Cochlin Deficiency Protects Against Noise-Induced Hearing Loss** *FRONTIERS IN MOLECULAR NEUROSCIENCE*  
Seist, R., Landegger, L. D., Robertson, N. G., Vasilijic, S., Morton, C. C., Stankovic, K. M.  
2021; 14: 670013
  - **Osteoporosis, bisphosphonate use, and risk of moderate or worse hearing loss in women** *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*  
Curhan, S. G., Stankovic, K., Halpin, C., Wang, M., Eavey, R. D., Paik, J. M., Curhan, G. C.  
2021
  - **Postnatal expression and possible function of RANK and RANKL in the murine inner ear** *BONE*  
Kao, S., Katsumi, S., Han, D., Bizaki-Vallaskangas, A. J., Vasilijic, S., Landegger, L. D., Kristiansen, A. G., McKenna, M. J., Stankovic, K. M.  
2021; 145: 115837
  - **Initial Method for Characterization of Tympanic Membrane Drug Permeability in Human Temporal Bones In Situ** *FRONTIERS IN NEUROLOGY*  
Early, S., Yang, R., Li, X., Zhang, Z., van der Valk, J. C., Ma, X., Kohane, D. S., Stankovic, K. M.  
2021; 12: 580392
  - **Human pluripotent stem cells - Unique tools to decipher the effects of environmental and intracellular plastic pollution on human health.** *Environmental pollution (Barking, Essex : 1987)*  
Stojkovic, M., Stojkovic, P., Stankovic, K. M.  
2021; 269: 116144
  - **Direct SARS-CoV-2 infection of the human inner ear may underlie COVID-19-associated audiovestibular dysfunction** *Communications Medicine*  
Jeong, M.  
2021; 1 (1)

- **TMPRSS3 Gene Variants With Implications for Auditory Treatment and Counseling.** *Frontiers in genetics*  
Moon, I. S., Grant, A. R., Sagi, V., Rehm, H. L., Stankovic, K. M.  
2021; 12: 780874
- **Molecular and Clinical Significance of Fibroblast Growth Factor 2 in Development and Regeneration of the Auditory System.** *Frontiers in molecular neuroscience*  
Jeong, M., Bojkovic, K., Sagi, V., Stankovic, K. M.  
1800; 14: 757441
- **New developments in neurofibromatosis type 2 and vestibular schwannoma.** *Neuro-oncology advances*  
Ren, Y., Chari, D. A., Vasilijic, S., Welling, D. B., Stankovic, K. M.  
2020; 3 (1): vdaa153
- **Altered expression of genes regulating inflammation and synaptogenesis during regrowth of afferent neurons to cochlear hair cells** *PLOS ONE*  
Wu, C., Brugeaud, A., Seist, R., Lin, H., Yeh, W., Petrillo, M., Coppola, G., Edge, A. B., Stankovic, K. M.  
2020; 15 (10): e0238578
- **Cigarette Smoking, Smoking Cessation, and Risk of Hearing Loss in Women** *AMERICAN JOURNAL OF MEDICINE*  
Lin, B. M., Wang, M., Stankovic, K. M., Eavey, R., McKenna, M. J., Curhan, G. C., Curhan, S. G.  
2020; 133 (10): 1180-1186
- **Progression of Contralateral Hearing Loss in Patients With Sporadic Vestibular Schwannoma** *FRONTIERS IN NEUROLOGY*  
Early, S., Rinnooy Kan, C. E., Eggink, M., Frijns, J. M., Stankovic, K. M.  
2020; 11: 796
- **MMP-14 (MT1-MMP) Is a Biomarker of Surgical Outcome and a Potential Mediator of Hearing Loss in Patients With Vestibular Schwannomas.** *Frontiers in cellular neuroscience*  
Ren, Y., Hyakusoku, H., Sagers, J. E., Landegger, L. D., Welling, D. B., Stankovic, K. M.  
2020; 14: 191
- **Regeneration of Cochlear Synapses by Systemic Administration of a Bisphosphonate** *FRONTIERS IN MOLECULAR NEUROSCIENCE*  
Seist, R., Tong, M., Landegger, L. D., Vasilijic, S., Hyakusoku, H., Katsumi, S., McKenna, C. E., Edge, A. B., Stankovic, K. M.  
2020; 13: 87
- **National Trends in Surgical Resection of Vestibular Schwannomas** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*  
Ren, Y., Sethi, R. K., Stankovic, K. M.  
2020; 163 (6): 1244-1249
- **Topical fibroblast growth factor-2 for treatment of chronic tympanic membrane perforations** *LARYNGOSCOPE INVESTIGATIVE OTOLARYNGOLOGY*  
Santos, F., Shu, E., Lee, D. J., Jung, D. H., Quesnel, A., Stankovic, K., Abdul-Aziz, D., Bay, C. P., Quinkert, A., Welling, D.  
2020; 5 (4): 657-664
- **Combination therapy with mTOR kinase inhibitor and dasatinib as a novel therapeutic strategy for vestibular schwannoma** *SCIENTIFIC REPORTS*  
Sagers, J. E., Beauchamp, R. L., Zhang, Y., Vasilijic, S., Wu, L., DeSouza, P., Seist, R., Zhou, W., Xu, L., Ramesh, V., Stankovic, K. M.  
2020; 10 (1): 4211
- **Intracochlear Perfusion of Tumor Necrosis Factor-Alpha Induces Sensorineural Hearing Loss and Synaptic Degeneration in Guinea Pigs** *FRONTIERS IN NEUROLOGY*  
Katsumi, S., Sahin, M., Lewis, R. M., Iyer, J. S., Landegger, L. D., Stankovic, K. M.  
2020; 10: 1353
- **Light-Based Neuronal Activation The Future of Cranial Nerve Stimulation** *OTOLARYNGOLOGIC CLINICS OF NORTH AMERICA*  
Kozin, E. D., Brown, M., Lee, D. J., Stankovic, K. M.  
2020; 53 (1): 171-+
- **Imaging hair cells through laser-ablated cochlear bone** *BIOMEDICAL OPTICS EXPRESS*  
Romito, M., Pu, Y., Stankovic, K. M., Psaltis, D.  
2019; 10 (11): 5974-5988
- **Cochlear histopathology in human genetic hearing loss: State of the science and future prospects** *HEARING RESEARCH*



- Bommakanti, K., Lyer, J. S., Stankovic, K. M.  
2019; 382: 107785
- **NLRP3 inflammasome activation in human vestibular schwannoma: Implications for tumor-induced hearing loss** *HEARING RESEARCH*  
Sagers, J. E., Sahin, M. I., Moon, I., Ahmed, S. G., Stemmer-Rachamimov, A., Brenner, G. J., Stankovic, K. M.  
2019; 381: 107770
  - **A novel microneedle device for controlled and reliable liquid biopsy of the human inner ear** *HEARING RESEARCH*  
Early, S., Moon, I., Bommakanti, K., Hunter, I., Stankovic, K. M.  
2019; 381: 107761
  - **Cytokine Levels in Inner Ear Fluid of Young and Aged Mice as Molecular Biomarkers of Noise-Induced Hearing Loss** *FRONTIERS IN NEUROLOGY*  
Landegger, L. D., Vasiljic, S., Fujita, T., Soares, V. Y., Seist, R., Xu, L., Stankovic, K. M.  
2019; 10: 977
  - **Gene Therapy for Human Sensorineural Hearing Loss** *FRONTIERS IN CELLULAR NEUROSCIENCE*  
Ren, Y., Landegger, L. D., Stankovic, K. M.  
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