

AMA- American Medical Association-
The Minnesota Electron Microscopy Society
Association for Research in Otolaryngology (ARO)
International Otopathology Society (a.k.a.The Schuknecht society)
University of Minnesota, Biomedical Engineering Institute (BMEI)
Turkish Medical Doctors' Association (Turk Tabipler Birligi)
Turkish Otolaryngic Allergy Society
International Hearing Foundation (Board member)

Honors and Awards

2002- Harvard Medical School, Massachusetts Eye and Ear Infirmary travel grant
2003- American Academy of Otolaryngology-Head and Neck Surgery Travel Grant for
International Scholars studying in The United States of America.
2004- IHF Award of Merit for the research in the area of cochlear changes in otitis media
2006- National organization for hearing research for the project entitled "Extracellular Matrix
Remodeling in Otitis Media" project grant
2006- Lions International grant- Processing temporal bone-
2007- Lions International grant- Education- Web site development-
2008- Lions International grant- Nomarski optics-
2008-American Academy of Otolaryngology, Head and Neck Surgery (AAO-HNS) President
award for the study entitled "Labyrinthine Changes in Otitis Media".
2010-Minnesota Medical Foundation grant: DNA methylation in chronic otitis media.
2009-2011- Otopathology by Light Microscopy and Molecular Technique. U24DC008559-03S1
(University of Minnesota: Principal Investigator: S. Cureoglu) Direct Cost: \$ 226,448
2011-2016- Pathology and Pathogenesis of otitis media, syndromic ear and Meniere's disease.
NIH-NIDCD. Principal Investigator. Direct Cost: \$ 1, 804, 022.
2012- American Academy of Otolaryngology-Head and Neck Surgery Foundation Honor
Award
2013- Politzer Prize Winner on Basic and Clinical studies. "Dysfunction of the cochlea
contributing to hearing loss in vestibular schwannoma".
2014- Lions International grant- Electrophysiologic study of cochlea.
2015- Lions International grant- Genetic Meniere's disease

Research Projects

1.

Project Number: 1R41HD097038-01	Dates of Project: 05/13/2019-04/30/2020
Source: Eunice Kennedy Shriver National Institute of Child Health and Human Development	Annual Direct Cost: \$217,000 (Amount obligated: \$52,400)
Title: Targeting bacteria, the innate response of the middle ear to infection, and host pathogen interactions, using topical and transtympanic applications for the treatment of otitis	
Major Goal of Project To test the efficacy of an innovative drug combination for the treatment of otitis media and its transtympanic administration.	
Role: Principal Investigator	
Overlap: No overlap (1.2 calendar months)	

2.

Sponsor Award # 530750	Dates of Project: 09/07/2019-08/31/2020
Source: NIH- Massachusetts Eye and Ear Infirmary	Amount Obligated: \$61,230
Title: National temporal Bone, Hearing and balance pathology resource registry	
Major Goal of Project To develop and maintain a growing database for access to detailed information about the location, condition, and other bioinformatics data about new and archival human temporal bone tissues around the country that are available as resources for auditory and vestibular research	
Role: Principal Investigator	
Overlap: No overlap (0.6 calendar months)	

3.

Sponsor Award # UG3 NS107688	Dates of Project: 09/30/2018-07/31/2022
Source: NIH- Brain Initiative	Budget: \$2,638,200
Title: Development and Translation of an Intracranial Auditory Nerve Implant	
Major Goal of Project to build and evaluate the safety and design needs of a new type of intracranial auditory prosthesis that targets the auditory nerve en route to the brainstem (auditory nerve implant, ANI) in order to substantially improve hearing performance over the current standard of care (cochlear implant, CI).	
Role: Co- Investigator	
Overlap: No overlap (0.9 calendar months)	

4. **Project # (PI):** Masonic Cross Departmental Grant (S. Cureoglu)**Source:** University of Minnesota

7/1/2017-6/30/2019

Title of project: Histopathologic Effects and Treatment of Cytomegalovirus in Human and Guinea Pig Cochlea.

Direct Cost: \$ 200.000.

Role: Principal Investigator.

5. Project # (PI): U24DC011968-01 (S. Cureoglu)

Source: NIH/NIDCD 09/01/2011-08/31/2016

Title of project: Pathology and Pathogenesis of otitis media, syndromic ear and Meniere's disease.

Goals: Our goals include the following: 1. To investigate the occurrence, frequency, location and the size of biofilm in human temporal bones with otitis media. 2. To better understand the interactions between the middle and inner ears to help identify candidate targets for therapeutic intervention. 3. To characterize the vestibulocochlear phenotype in human temporal bones with CHARGE syndrome. 4. To understand the developmental anomalies involving the endolymphatic sac and duct by using 3-D reconstructions. 5. To image the middle ear, cochlea, and vestibular organs in human temporal bones by using thin sheet laser imaging microscopy (TSLIM). 6. To provide training of new otopathologists and technicians to modernize the field of otopathology.

Direct Cost: \$ 1, 804, 022.

Role: Principal Investigator.

6. Project # (PI): Innovation Research Grant (S. Cureoglu)

Source: University of Minnesota, Medical School 05/01/2015-04/30/2016

Title of project: "DESIGN OF PROTEIN-BASED VACCINE AGAINST PNEUMOCOCCAL OTITIS MEDIA"

Direct Cost: \$10.000

7. Project # (PI): 39959/U24DC008559-03S1 (S. Cureoglu)

Source: MEEI- NIH/NIDCD

07/17/2009-06/30/2011

Title of project: Otopathology by Light Microscopy and Molecular Technique

Goals: Our goals include the following: 1. To develop customized protocols for assessment of prospectively acquired temporal bones. 2. To archive in digital format the histopathology reports and images for all temporal bones in order to enhance the research and educational value of archival and newly acquired specimens. 3. To develop improved protocols for applying molecular biologic assays to temporal bone research, especially protocols that will optimize the applicability of immunostaining and mass spectrometry- based proteomics while preserving the morphology of the processed tissues. 4. To collect comprehensive clinical information from registered temporal bone donors. 5. To establish a program for the training of future temporal bone researchers. 6. To cooperate with the Temporal Bone Research Consortium. This research will provide new knowledge about the causes of disorders of hearing and balance, which should lead to better methods of diagnosis and therapy.

Direct Cost: \$ 226,448

Role: Principal Investigator

8- Project (PI): MMF grant (S. Cureoglu)

Title of Project: DNA Methylation in chronic otitis media.

Goals: To use DNA methylation PCR array to study DNA methylation in human chronic otitis media and to determine if this process correlates with their histopathological/ immunohistochemical changes. In this proposal, we will study DNA methylation patterns

necessary for inflammatory response and their effect on the HTBs with chronic OM, such as cholesteatoma and granulation tissue.

Role: Principal Investigator

9. Project # (PI): R01 DC006452-04A2 (S.K.Juhn)

Source: NIH/NIDCD

6/15/2010-5/31/2015

Title of project: Effect of Middle ear Inflammation on the Inner Ear

Goals: To determine how inflammation, biochemical changes, bacterial invasion and other factors associated with otitis media affect the structure and function of the RWM and inner ear.

Direct Cost: \$ 1, 550,220

Role: Co-investigator

10- Project # (PI): R01 DC006452-01A2 (S.K.Juhn)

Source: NIH/NIDCD

12/16/2006-12/15/2009

Title of project: Effect of Middle ear Inflammation on the Inner Ear

Goals: To determine how inflammation, biochemical changes, bacterial invasion and other factors associated with otitis media affect the structure and function of the RWM and inner ear.

Direct Cost: \$ 637,500

Role: Co-investigator

11- Source: National organization for hearing research

01/20/2006 - 1/19/2007

Role: Principal investigator

Title of project: Extracellular Matrix Remodeling in Otitis Media

Goals: To determine the changes in the expression of matrix metalloproteinases that occur in chronic otitis media and to inhibit MMPs in order to reduce tissue pathology such as granulation tissue, fibrosis, tympanosclerosis, and ossicular necrosis in the middle ear.

Direct Cost: \$ 20.000

12- Source: American Hearing Research Foundation 01/01/2004 - 12/31/2004

Role: Co-investigator

Title of project: Structure of stereocilia extracellular links and morphology of hair bundles

Goals: The goal of this project is to study the structure of stereocilia links of sensory hair bundles and abnormalities of the hair bundle and underlying hearing dysfunction

Invited Speaker

Anatomy/ Histopathology of Temporal bone: Temporal Bone Course. Penn State, 2016

Evidence Based otology- How do temporal bone studies allow us to practice better. 29th

POLITZER Society Meeting, Antalya, Turkey, 14-17 November 2013.

Otosclerosis: New developments in the etiopathogenesis: Turkish National Otolaryngology meeting, Antalya, Turkey, October 26-30, 2011.

Meniere's disease or syndrome: Turkish National Otolaryngology meeting, Antalya, Turkey, October 26-30, 2011.

Otolaryngic allergy: Joint meeting of Dicle – Firat - Harran Universities, Diyarbakir, Turkey, December 3-5, 1999.

Applied Otopathology for Otolologists: The 6th International Symposium on Minimal invasive approaches in otorhinolaryngology, Ankara, Turkey, December 11-13, 2003.

Otosclerosis: Clinico-pathologic approach: The 6th International Symposium on Minimal invasive approaches in otorhinolaryngology, Ankara, Turkey, December 11-13, 2003.

Otitis Media Continuum theory: The 6th International Symposium on Minimal invasive approaches in otorhinolaryngology, Ankara, Turkey, December 11-13, 2003.

Meniere's disease: Dicle University, Diyarbakir, Turkey, December 22, 2003.

Otology Workshop: Otopathology. Penn State U, 2016.

Peer-Reviewed Publications:

1. Keskin NY, Albasan H, Borku MK, Paparella MM, Cureoglu S. Three-Dimensional Analysis of Round Window Membrane in the Chinchilla Model with Acute Otitis Media Induced with *Streptococcus Pneumoniae* 7F. *Turk Arch Otorhinolaryngol* 59(1):43-48, 2021.
2. Monsanto R, Knoll RM, Penido N, Song G, Santos F, Paparella MM, Cureoglu S. Otopathologic Abnormalities in CHARGE Syndrome. *Otolaryngol Head Neck Surg*
3. Tsuprun V, Shibata D, Paparella MM, Cureoglu S. Formations of Host Fibers and Bacteria in Human Temporal Bones with otitis Media. *Otol Neurotol* 42(7):e949-e957, 2021.
4. Sennaroglu L, Monsanto R, Sancak IG, Paparella MM, Cureoglu S. Histopathology of Inner Ear Malformations: potential prognostic factors and their influence in the decision-making between CI and ABI (In Submission)
5. Uchiyama M, Monsanto RDC, Sancak IG, Park GS, Schachern P, Kobayashi H, Paparella MM. Temporal Bone Pathology Secondary to Head Trauma-A Human Temporal Bone Study. *Otol Neurotol* 42(8):e1152-e1159, 2021.
6. Hampe CS, Wesley J, Lund TC, Orchard PJ, Polgreen LE, Eisengart JB, McLoon LK, Cureoglu S, Schachern P, McIvor RS. Mucopolysaccharidosis Type I: Current Treatments, Limitations, and Prospects for Improvement. *Biomolecules*. 2021;11(2):189
7. Monsanto RDC, Penido NO, Uchiyama M, Schachern P, Paparella MM, Cureoglu S. Quantitative assessment of cochlear and vestibular ganglion neurons in temporal bones with chronic otitis media. *Eur Arch Otorhinolaryngol* 278(2): 331-338, 2021.
8. Pauna HF, Paparella MM, Cureoglu S, Hyppolito MA. Cochlear turns measurements in patients with meningitis: A histopathological study. *Laryngoscope Investig. Otolaryngol* 5(3):506-510, 2020.
9. Nogaki T, Paparella MM, Cureoglu S. A Structural Analysis of Tympanic Compartments of the Middle Ear in Patients with Down's Syndrome: A Temporal Bone Study. *Otol Neurotol* 41(8): 1149-1157, 2020.
10. Tsuprun V, Keskin N, Schleiss MR, Schachern P, Cureoglu S. Cytomegalovirus-induced pathology in human temporal bones with congenital and acquired infection. *Am J Otolaryngol* 40(6): 102270, 1-7, 2019.

11. Monsanto RDC, Sennaroglu L, Uchiyama M, Sancak IG, Paparella MM, Cureoglu S. Histopathology of Inner Ear Malformations: Potential Pitfalls for Cochlear Implantation. *Otol Neurotol* 40(8): e839-e846, 2019.
12. Monsanto RDC, Uchiyama M, Paparella MM, Cureoglu S. Quantitative Assessment of Inner Ear Histopathologic Findings in Partial Trisomy of 13. *Otol Neurotol* 40(8): e854-e857, 2019.
13. Keskin N, Albasan H, Sancak IG, Paparella MM, Cureoglu S. Cochleosaccular (Scheibe) dysplasia in dogs: A temporal bone study. *Can J Vet res.* 83(1): 11-16, 2019.
14. Nogaki T, Keskin N, Azuma T, Paparella MM, Nadol JB, Cureoglu S. Quantitative assessment of vestibular otopathology in granulomatosis with polyangitis. *Laryngoscope Investig Otolaryngol* 3(6):473-477, 2018.
15. Fukushima H, Hara H, Paparella MM, Oktay MF, Schachern PA, Cureoglu S. Bilateral Glomus tympanicum tumors: Human Temporal bone Study. *Clin Pract* 8(3): 1035, 2018.
16. Monsanto RDC, Pauna HF, Paparella MM, Cureoglu S. Otopathology in the United States: History, Current Situation, and future perspectives. *Otol Neurotol* 39(9):1210-1214, 2018.
17. Azuma T, Nogaki T, Schachern P, Paparella MM, Cureoglu S. Structural Analysis of Tensor Tympani Muscle, Tympanic Diaphragm, Epitympanum, and Protympanum in Meniere's disease: A human Temporal bone study. *Otol Neurotol* 39(4):499-505, 2018.
18. Pauna HF, Monsanto RC, Schachern P, Paparella MM, Chole RA, Cureoglu S. Evidence against the mucosal traction theory in cholesteatoma. *Laryngoscope* 128(7): 1663-1667, 2018.
19. Oktay MF, Tansuker HD, Fukushima H, Paparella MM, Schachern PA, Cureoglu S. Histopathology of tympanic membranes from patients with ventilation tubes. *Auris Nasus Larynx* 45(3):427,432, 2018.
20. Kaya S, Selimoglu E, Cureoglu S, Selimoglu MA. Relationship between chronic otitis media with effusion and overweight or obesity in children. *J laryngol Otol* 131(10):866-870, 2017.
21. Schachern PA, Tsuprun V, Ferrieri P, Briles DE, Goetz S, Cureoglu S, Paparella MM. Neutrophil Extracellular traps and fibrine in Otitis Media. Analysis of human and Chinchilla TBs. *JAMA Otolaryngol Head Neck Surg.* 143(10):990-995, 2017.

22. Monsanto RD, Schachern P, Paparella MM, Cureoglu S, Penido NDO. Progression of changes in the sensorial elements of the cochlear and peripheral vestibular systems: The otitis media continuum. *Hearing Research* 351:2-10, 2017
23. Oberman BS, Patel VA, Cureoglu S, Isildak H. The aetiopathologies of Ménière's disease: a contemporary review. *Acta Otorhinolaryngol Ital.* 2017
24. Ferster AP, Cureoglu S, Keskin N, Paparella MM, Isildak H. Secondary Endolymphatic Hydrops. *Otol Neurotol.* 38(5): 774-779, 2017
25. Monsanto RD, Pauna HF, Kwon G, Schachern PA, Tsuprun V, Paparella MM, Cureoglu S. A three-dimensional analysis of the endolymph drainage system in Meniere's disease. *Laryngoscope* 127(5):E170-E175, 2017
26. Kaya S, Paparella MM, Cureoglu S. Histopathologic changes of Human Vestibular Epithelia in Intralabyrinthine Hemorrhage. *Ann Otol Rhinol Laryngol* 126(6): 445-450, 2017.
27. Pauna HF, Monsanto RC, Kurata N, Paparella MM, Cureoglu S. Changes in the inner ear structures in cystic fibrosis patients. *Int J Pediatr Otorhinolaryngol* 92:108-114, 2017
28. Kaya S, Paparella MM, Cureoglu S. Does Otosclerosis affect Dark and transitional cells in the human vestibular labyrinth? *Otol Neurotol* 38(2):234-238, 2017
29. Kaya S, Schachern PA, Tsuprun V, Paparella MM, Cureoglu S. Deterioration of vestibular Cells in Labyrinthitis. *Ann Otol Rhinol Laryngol* 126(2):89-95, 2017
30. Pauna HF, Monsanto RC, Schachern PA, Costa SS, Kwon G, Paparella MM, Cureoglu S. The surgical challenge of carotid artery and Fallopian canal dehiscence in chronic ear disease: a pitfall for endoscopic approach. *Clin Otolaryngol* 42(2):268-274, 2017.
31. Pauna HF, Monsanto RC, Schachern P, Paparella MM, Cureoglu S. A 3-D analysis of the protympanum in human temporal bones with chronic ear disease. *Eur Arch Otorhinolaryngol* 274(3):1357-1364, 2017.
32. Kaya S, Hizli O, Kaya FK, Monsanto RD, Paparella MM, Cureoglu S. Peripheral vestibular pathology in Mondini dysplasia. *Laryngoscope* 127(1):206-209, 2017
33. Cureoglu S, da Costa Monsanto R, Paparella MM. Histopathology of Meniere's disease. *Oper Tech Otolaryngol Head Neck Surg* 27(4):194-204, 2016
34. Da Costa Monsanto R, Erdil M, Pauna HF, Kwon G, Schachern PA, Tsuprun V, Paparella MM, Cureoglu S. Pathologic Changes of the Peripheral Vestibular System Secondary to Chronic Otitis Media. *Otolaryngol Head Neck Surg* 155(3):494-500, 2016

35. Kaya S, Paparella MM, Cureoglu S. Pathologic findings of the cochlea in Labyrinthitis Ossificans associated with the round window membrane. *Otolaryngol Head Neck Surg* 155(4):635-40, 2016.
36. Monsanto RD, Pauna HF, Kaya S, Hizli O, Kwon G, Paparella MM, Cureoglu S. Epitympanum volume and tympanic isthmus area in temporal bones with retraction pockets. *Laryngoscope* 126(11):E369-E374, 2016
37. Kaya S, Kaya FK, Hizli O, Paparella MM, Cureoglu S. Otopathologic Findings of Penak-Shokeir Syndrome Type 1. *Ann Otol Rhinol Laryngol* 125(8):677-81, 2016
38. Kariya S, Kaya S, Hizli O, Hizli P, Nishizaki K, Paparella MM, Cureoglu S. Cochlear Histopathologic Findings in Patients with systemic lupus erythematosus: A human temporal bone study *Otology & Neurotology* 37(5):593-7, 2016.
PMCID:PMC4864109
39. Kocdor P, Kaya S, Erdil M, Cureoglu S, Paparella MM, Adams ME. Vascular and Neuroepithelial Histopathology of the saccule in Humans with Diabetes mellitus. *Otol Neurotol* 37(5):553-7, 2016. **PMCID:PMC4864044**
40. Santi PA, Aldaya R, Brown A, Johnson S, Stromback T, Cureoglu S, rask-Andersen H. Scanning Electron Microscopic Examination of the Extracellular Matrix in the Decellularized Mouse and Human Cochlea. *J Assoc Res Otolaryngol* 17(3):159-71, 2016.
41. Kaya S, Tsuprun V, Hizli O, Paparella MM, Cureoglu S. Quantitative Assessment of Cochlear Histopathologic Findings in Patients with Suppurative Labyrinthitis. *JAMA Otolaryngol Head Neck Surg* 142(4):264-9, 2016.
42. Kaya S, Tspurun V, Hizli O, Schachern PA, Paparella MM, Cureoglu S. Cochlear changes in Serous Labyrinthitis associated with Silent Otitis Media: A human temporal bone study. *Am J Otolaryngol* 37(2):83-8, 2016. **PMCID:PMC4785270**
43. Quesnel AM, Ishai R, Cureoglu S, Linthicum F, Lopez IA, Nadol JB Jr, McKenna MJ. Lack of Evidence for Nonotosclerotic Stapes Fixation in Human temporal Bone Histopathology. *Otol Neurotol* 37(4):316-20, 2016.
44. Kaya S, Hizli O, Schachern PA, Paparella MM, Cureoglu S. Effects of intralabyrinthine hemorrhage on the cochlear elements: A human temporal bone Study. *Otol Neurotol* 37(2):132-6, 2016.
45. Hizli O, Kaya S, Hizli P, Paparella MM, Cureoglu S. Stria vascularis and cochlear hair cell changes in syphilis: A human temporal bone study. *Auris Nasus Larynx* 43(6):614-9, 2016. **PMCID:PMC4976050**

46. Kurata N, Schachern PA, Paparella MM, Cureoglu S. Vascular Findings in the Cochlea in Cases with Presbycusis: A Histopathologic Temporal Bone Study. *JAMA Otolaryngology - Head & Neck Surgery* 142(2):173-8, 2016.
47. Hizli O, Hizli P, Kaya S, Monsanto RD, Paparella MM, Cureoglu S. Histopathologic ear findings of syphilis: a temporal bone study. *Eur Arch Otorhinolaryngol* 273(9):2443-9, 2016.
48. Hizli O, Kaya S, Schachern PA, Kwon G, Paparella MM, Cureoglu S. Quantitative assessment of vestibular otopathology in otosclerosis: A temporal bone study. *Laryngoscope* 126(3):E118-22, 2016. **PMCID:PMC4755806**
49. Hizli O, Cureoglu S, Kaya S, Schachern PA, Paparella MM, Adams ME. Quantitative Vestibular Labyrinthine Otopathology in Temporal Bones with Vestibular Schwannoma. *Otolaryngol Head Neck Surg* 154(1):150-6, 2016.
50. Kaya S, Karasen S, Paparella MM, Cureoglu S. Asymptomatic hydrops in a case with otosclerosis. *Otol Neurotol* 37(1):e5-e6, 2016. **PMCID:PMC4675672**
51. Hizli O, Salduz A, Kaya S, Paparella MM, Cureoglu S. A rare Location for Sarcoma Metastasis: The Temporal Bone. *American Journal of Otolaryngology-Head and Neck Medicine and Surgery* 36(6):772-7, 2015. **PMCID: PMC4637134**
52. Kariya S, Hizli O, Kaya S, Hizli P, Nishizaki K, Paparella MM, Cureoglu S. Histopathologic findings in peripheral vestibular system from patients with systemic lupus erythematosus: A human temporal bone study *Otology & Neurotology* 36(10):1702-7, 2015.
53. Liu W, Atturo F, Aldaya R, Santi P, Cureoglu S, Obwegeser S; Glueckert R Pfaller K,, Schrott-Fischer A, Rask-Andersen H. Macromolecular Organization and Fine Structure of the Human Basilar Membrane - Relevance for Cochlear Implantation. *Cell & Tissue Research* 360(2):245-62, 2015.
54. Shirai K, Schachern P, Schachern M, Paparella MM, Cureoglu S. Volume of the epitympanum and blockage of the tympanic isthmus in chronic otitis media: a human temporal bone study. *Otology & Neurotology* 36(2):254-9, 2015. **PMCID:PMC4297250**
55. Schachern PA, Tsuprun V, Ferrieri P, Briles DE, Goetz S, Cureoglu S, Paparella MM, Juhn S. Pneumococcal PspA and PspC proteins: potential vaccine candidates for experimental otitis media. *Int J Pediatr Otorhinolaryngol.* 2014;78(9):1517-
PMCID:PMC4129636
56. Johnson SB, Cureoglu S, O'Malley JT, Santi PA. Comparison of traditional histology

- and TSLIM optical sectioning of human temporal bones. *Otology & Neurotology* 2014; 35(7), 1145-9. **PMCID:PMC4134383**
57. Vianna M, Cureoglu S, Paparella MM. Differences in the Diameter of Facial Nerve and Facial Canal in Bell's Palsy - A Three-Dimensional Human Temporal Bone Study. *Otology & Neurotology* 35(3):514-8, 2014. **PMCID:PMC4158913**
 58. Yildirim-Baylan M, Schachern P, Tsuprun V, Shiabata D, Paparella MM, Cureoglu S. The pathology of silent otitis media: A predecessor to tympanogenic meningitis in infants. *Int J Pediatr Otorhinolaryngol* 78(3):451-4, 2014. **PMCID:PMC3935507**
 59. Nomiya S, Kariya S, Nomiya R, Morita N, Nishizaki K, Paparella MM, Cureoglu S. Facial nerve canal dehiscence in chronic otitis media without cholesteatoma. *Eur Arch Otorhinolaryngol* 271(3):455-8, 2014. **PMCID:PMC3797195**
 60. Schachern PA, Tsuprun V, Goetz S, Cureoglu S, Juhn SK, Briles DE, Paparella MM, Ferrieri P. Viability and virulence of pneumolysin, pneumococcal surface protein A, and pneumolysin/pneumococcal surface protein A mutants in the ear. *JAMA Otolaryngol Head Neck Surg* 139(9):937-43, 2013.
 61. Oghan F, Cingi C, Karatas E, Cureoglu S. New Diagnostic and Therapeutic Approaches in Otologic Diseases. *Scientific World Journal*. Published online 2013 December 10. doi: 10.1155/2013/610748 **PMCID: PMC3874508**
 62. Vianna MF, Taciro D, Lazarini PR, Paparella MM, Cureoglu S. Osteogenesis Imperfecta-a human temporal bone case study. *Otol Neurotol* 34(7):e113-4, 2013. **PMCID:PMC3744062**
 63. Kariya S, Nishizaki K, Paparella MM, Cureoglu S. Wiskott-Aldrich Syndrome. *Otol Neurotol* 34(3):e16-7, 2013.
 64. Hederstierna C, Cureoglu S, Paparella MM. Undiagnosed severe cochlear otosclerosis as a cause of profound hearing loss. *Otol Neurotol* 34(3):e14-5, 2013. **PMCID:PMC3587007**
 65. Kariya S, Schachern PA, Nishizaki K, Paparella MM, Cureoglu S. Inner ear changes in mucopolysaccharidosis type I/Hurler Syndrome. *Otol Neurotol* 33(8): 1323-7, 2012.
 66. Inagaki T, Cureoglu S, Morita N, Terao K, Sato T, Suzuki M, Paparella MM. Vestibular system changes in sudden deafness with and without vertigo: A human Temporal bone study. *Otol Neurotol* 33(7):1151-1155, 2012. **PMCID:PMC3874473**
 67. Xu HX, Kim GH, Snissarenko EP, Cureoglu S, Paparella MM. Multi-channel cochlear implant histopathology: Are fewer spiral ganglion cells really related to better clinical performance? *Acta Otolaryngol*. 2012;132(5):482-90.

68. Roosli C, Linthicum FH Jr, Cureoglu S, Merchant SN. Dysfunction of the cochlea contributing to hearing loss in acoustic neuromas: an underappreciated entity. *Otol Neurotol*. 2012;33(3):473-80.
69. Roosli C, Linthicum FH Jr, Cureoglu S, Merchant SN. What is the site of origin of cochleovestibular schwannomas? *Audiol Neurootol*. 2012;17(2):121-5.
70. Yildirim-Baylan M, Cureoglu S, Paparella MM. Langerhans' Cell Histiocytosis of the temporal bone. *Otol Neurotol* 2012 33(2):e15-6. **PMCID:PMC3874472**
71. Yoda S, Cureoglu S, Yildirim-Baylan M, Morita N, Fukushima H, Harada T, Paparella MM. Association between Type 1 Diabetes Mellitus and Deposits in the Semicircular Canals. *Otolaryngol Head Neck Surg*. 2011, 145(3):458-62.
72. Yildirim-Baylan M, Erdogmus N, Cureoglu S, Paparella MM. Bladder cancer metastases to the temporal bone. *Otol Neurotol* 2011, 32(5):e40-1.
73. Terao K, Cureoglu S, Schachern PA, Morita N, Nomiya S, Deroee AF, Doi K, Mori K, Murata K, Paparella MM. Cochlear changes in presbycusis with tinnitus. *Am J Otolaryngol* 2011 ;32(3):215-20.
74. Yoda S, Cureoglu S, Paparella MM. Pulmonary carcinoma metastasis to the internal auditory canal. *Otol Neurotol* 32(6):e48-9, 2011. **PMCID:PMC3139152**
75. Nomiya S, Cureoglu S, Kariya S, Morita N, Nomiya R, Nishizaki K, Paparella MM. Histopathological incidence of facial canal dehiscence in otosclerosis. *Eur Arch Otorhinolaryngol*. 2011;268(9):1267-71.
76. Shimizu S, Cureoglu S, Yoda S, Suzuki M, Paparella MM. Blockage of longitudinal flow in Meniere's disease: A human temporal bone study. *Acta Otolaryngol*. 2011;131(3):263-8.
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Research in Otolaryngology (ARO) 35th Meeting: San Diego, California, February 6-10, 2012.

61. Kariya S, Cureoglu S, Schachern PA, Nishizaki K, Paparella MM. Histopathological Human Temporal Bone study of Mucopolysaccharidosis type I/ Hurler Syndrome. The Association for Research in Otolaryngology (ARO) 35th Meeting: San Diego, California, February 6-10, 2012.
62. Shibata D, Schachern PA, Tsuprun V, Harada T, Paparella MM, Cureoglu S. The Continuum of biofilm-like structures in different types of otitis media. Ann Meeting Am Acad Otolaryngol Head-Neck Surg, Washington DC, Sept 9-12, 2012.
63. Vianna M, Adams M, Paparella MM, Cureoglu S. Differences in the diameter of Facial Nerve and Facial canal in the pathophysiology of Bell's palsy- A three-Dimensional Temporal bone study. The Association for Research in Otolaryngology (ARO) 36th Meeting: Baltimore, MD, February 16-22, 2013.
64. Hederstierna CF, Cureoglu S, Paparella MM. Endolymphatic hydrops in Histopathologic otosclerosis and surgery effect? The Association for Research in Otolaryngology (ARO) 36th Meeting: Baltimore, MD, February 16-22, 2013.
65. Cureoglu S, Schachern P, Tsuprun V, Juhn S, Paparella MM. Biofilm structures in infants with silent otitis media and tympanogenic meningitis. The Association for Research in Otolaryngology (ARO) 36th Meeting: Baltimore, MD, February 16-22, 2013.
66. Vianna M, Malas FU, Burlamaqui JF, Adams M, Lazarini PR, Paparella MM, Cureoglu S. Incudomalleolar Joint Pathology in human temporal bones with Rheumatoid arthritis. COSM Annual meeting, JW Marriott Grande Lakes, Orlando FL, April 10-14, 2013.

67. Santi PA, Johnson S, Cureoglu S. sTSLIM imaging of the human temporal bone. 5th Annual Light-Sheet Fluorescence Microscopy Workshop, New York, NY. Sept 15-17, 2013.
68. Roosli C, Linthicum FH, Cureoglu S, Merchant SN. Dysfunction of the cochlea contributing to hearing loss in vestibular Schwannoma. 29th POLITZER Society Meeting, Antalya, Turkey, 14-17 November 2013.
69. Schachern PA, Tsuprun V, Goetz S, Briles DE, Ferrieri P, Cureoglu S, Paparella MM, Juhn SK. A comparison of the virulence of *Streptococcus pneumoniae* mutants in the chinchilla. 7th Extraordinary International Symposium on Recent Advances in Otitis Media. Stockholm, Sweden. June 12-16, 2013.
70. Cureoglu S. How do temporal bone studies allow us to practice better. 29th POLITZER Society Meeting, Antalya, Turkey, 14-17 November 2013.
71. Shirai K, Schachern PA, Shachern MG, Paparella MM, Suzuki M, Cureoglu S. Volumetric study of Epitympanum in Human Temporal Bones: A computer aided 3D reconstruction. The Association for Research in Otolaryngology (ARO) 37th Meeting: February 22-26, 2014, San Diego, California.
72. Schachern P, Tsuprun V, Ferrieri P, Briels D, Goetz, S. Cureoglu S, Paparella M, Juhn S. Effect of Mutations of PspA and PspC proteins on Viability and Virulence of *Streptococcus pneumoniae* in the Chinchilla Ear. The Association for Research in Otolaryngology (ARO). 37rd MidWinter Meeting: San Diego, CA, February 21-26, 2014.
73. Shirai K, Schachern PA, Shachern MG, Paparella MM, Suzuki M, Cureoglu S. Epitympanic Area and Volume in Human Temporal Bones With and Without Chronic Otitis Media. AAO HNSF Annual Meeting, September 21-24, 2014, Orlando FL.
74. Schachern P, Tsuprun V, Cureoglu S, Juhn S, Briles D, Ferrier P, The Pneumococcal PspA Protein is Essential for Formation of Extracellular Neutrophil Traps in

- Chinchillas with Otitis Media. The Association for Research in Otolaryngology (ARO) 38th Meeting: February 21-25, 2015, Baltimore, MD.
75. Kocdor P, Ergin M, Cureoglu S, Paparella MM, Adams M. Evidence of Saccular Pathology in Human Diabetes Mellitus. The Association for Research in Otolaryngology (ARO) 38th Meeting: February 21-25, 2015, Baltimore, MD.
76. Erdil M, Schachern PA, Tsuprun V, Paparella MM, Cureoglu S. Vestibular changes in chronic otitis media: A Human temporal bone study. The Association for Research in Otolaryngology (ARO) 38th Meeting: February 21-25, 2015, Baltimore, MD.
77. Kwon G, Peterson M, Kandimalla K, Schachern PA, Tsuprun V, Cureoglu S, Paparella MM, Lai J, Landgrebe K, Juhn S. Photodynamic effect of visible light in pneumococcal otitis media. The Association for Research in Otolaryngology (ARO) 38th Meeting: February 21-25, 2015, Baltimore, MD.
78. Santi P, Aldaya R, Cureoglu S. Scanning electron microscope observations of the decellularized mouse and human cochlea. The Association for Research in Otolaryngology (ARO) 38th Meeting: February 21-25, 2015, Baltimore, MD.
79. Kocdor P, Siegel ER, Paparella MM, Cureoglu S. Changes in Cochlear Lateral Wall and Bony layer of Vestibular Aqueduct in Meniere's Disease and Endolymphatic Hydrops without vestibular Symptoms: A temporal Bone Study. American Otological Society/ American Neurological Society. Combined Otolaryngology Spring Meetings (COSM) 22-26 April, 2015, Boston, MA (SECOND PLACE POSTER AWARD)
80. Monsanto RC, Pauna HF, Hizli O, Kwon G, Paparella MM, Cureoglu S. A Three-dimensional Volumetric Analysis of the Epitympanum and Tympanic Isthmus in Patients with Retraction Pockets. The Association for Research in Otolaryngology (ARO) 39th Meeting, february 20-24, 2016, San Diego, CA.
81. Temporal bone course, invited speaker, Penn State, 2016

82. Kaya S, Schachern PA, Tsuprun V, Paparella MM, Cureoglu S. Peripheral Vestibular System Pathology in Labyrinthitis Ossificans. AAO HNSF Annual Meeting, September 18-21, 2016, San Diego, CA.
83. Kaya S, Schachern PA, Tsuprun V, Paparella MM, Cureoglu S. Evaluation of Peripheral Vestibular Cells in Serous Labyrinthitis. AAO HNSF Annual Meeting, September 18-21, 2016, San Diego, CA.
84. Pauna HF, Monsanto RC, Schachern PA, Paparella MM, Cureoglu S. **Reconstruction of the Middle Ear Mucosa in Cholesteatoma.** AAO HNSF Annual Meeting, September 18-21, 2016, San Diego, CA.
85. Pauna HF, Monsanto RC, Schachern PA, Costa SS, Kwon G, Paparella MM, Cureoglu S. **Carotid Artery Dehiscence in Chronic Ear Disease.** AAO HNSF Annual Meeting, September 18-21, 2016, San Diego, CA.
86. Monsanto RC, Erdil M, Pauna HF, Kwon G, Schachern PA, Tsuprun V, Paparella MM, Cureoglu S. **Vestibular Pathology Secondary to Chronic Otitis Media.** AAO HNSF Annual Meeting, September 18-21, 2016, San Diego, CA.
87. Keskin N, Schachern P, Paparella MM, Gul Sancak I, Albasan H, Cureoglu S. Evaluation of Middle Ear in Cats with Eustachian Tube Obstruction. American College of Veterinary Internal Medicine (ACVIM) Forum 2017, June 8-10, Gaylord National Resort and Convention Center, National Harbor, MD, Washington DC, USA.
88. Keskin N, Albasan H, Sancak IG, Paparella MM, Cureoglu S. "Cochlear Changes in Dogs with Hereditary Deafness", Late Breaking Research-Oral Presentation, American College of Veterinary Internal Medicine (ACVIM) Forum, June 7-10, 2017, MD, USA.

89. Pauna HF, Amaral MS, Danieli F, Cureoglu S, Paparella MM. Cochlear Measurements in Patients with Meningitis: A Histopathological Study. AAO HNSF Annual Meeting, September 15-18, 2019, New Orleans, LA.
90. Monsanto R, Sennaroglu L, Sancak IG, Uchiyama M, Paparella MM, Cureoglu S. Histopathology of Inner Ear Malformations: Implications for Cochlear Implantations. AAO HNSF Annual Meeting, September 15-18, 2019, New Orleans, LA.
91. Tsuprun V, Keskin N, Schleiss MR, Schachern PA, Paparella MM, Cureoglu S. Cytomegalovirus-induced Pathology in Human Temporal Bones with Congenital and Acquired Infection. AAO HNSF Annual Meeting, September 15-18, 2019, New Orleans, LA.
92. Uchiyama M, Monsanto R, Sancak IR, Park GS, Paparella MM, Cureoglu S. Pathologic changes of Inner Ear following Head Trauma. AAO HNSF Annual Meeting, September 15-18, 2019, New Orleans, LA.
93. Sennaroglu L, Monsanto R, Cureoglu S. Histopathology of Inner Ear Malformations: potential prognostic factors in the decision-making between CI and ABI. Third Pediatric Auditory Brainstem Implant meeting, 3-5 September 2020, Virtual Meeting, Europe.
94. Cureoglu S, Keskin N, Tsuprun V, Schleiss M, Schachern P. Cytomegalovirus related Pathology in Congenital and Acquired Cases. The Association for research in Otolaryngology (ARO). The 44th Annual Mid-Winter Meeting. February 20-24, 2021 USA.
95. Bustamante MC, Roychowdhury P, Uchiyama M, Cureoglu S, Remenschneider A. Otopathologic Evaluation of the Incudo-stapedial Joint in Rheumatoid Arthritis. The Association for research in Otolaryngology (ARO). The 44th Annual Mid-Winter Meeting. February 20-24, 2021 USA.

Teaching and Curriculum Development

Clinical Otopathology Conferences: Every Thursday 9:00-11:00 am, LRB building, Department of Otolaryngology, University of Minnesota.

Otologic Conferences: Tuesday 9:00-10:00 am (monthly) Department of Otolaryngology, University of Minnesota.

- Meniere's disease
- Otitis Media Complications
- Cellular Changes of Reissner's Membrane in Meniere's Disease
- Role of Pneumococcal Proteins in Sensorineural Hearing Loss due to Otitis Media
- Functional and Histopathological Age-Related Changes of the Ear in MPS IIIB Mouse
- Labyrinthine changes due to otitis media
- Otitis media and associated pathologies
- Contralateral Ears in Meniere's Disease
- Contralateral Ears in Chronic Otitis Media
- Cholesteatoma: Clinico-pathologic approach
- Otopathology is the guide to our understanding Otology
- Cochleosaccular dysplasia in Dalmatian dogs
- Clinical and histopathological effects of ventilation tubes
- Otosclerosis- Otitis Media: clinico-pathological association
- Cochleosaccular dysplasia: Specific features in children
- Cochlear changes in otitis media
- Extracellular matrix remodeling in otitis media

Speech Language Hearing Sciences (PhD Program), University of Minnesota

- Ear diseases: Clinico-pathologic correlations
- Meniere's disease
- Otosclerosis
- Otitis media

Editorial Duties in Journals

The Laryngoscope, USA:	Reviewer,
Otology and Neurotology, USA	Reviewer,
Archives of Medical Research (Elsevier)	Reviewer,
Hearing Research Journal, Elsevier, USA	Reviewer,
The Journal of International Advanced Otology	Advisory Editorial Board