

**UW SCHOOL OF MEDICINE
CURRICULUM VITAE**

**MILES JONATHAN KLIMARA, MD
JULY 2026**

EDUCATION

2010-2014 BA, Psychology, University of Notre Dame, Notre Dame, IN
2015-2019 MD with Research Honors distinction, Medical College of Wisconsin,
Milwaukee, WI

POSTGRADUATE TRAINING

2019-2026 Residency, Otolaryngology-Head & Neck Surgery, University of Iowa,
Iowa City, IA
2020-2022 Integrated Research Fellowship in Otolaryngology (research track
residency), University of Iowa, Iowa City, IA

HONORS

2016 Dr. Michael J. Dunn Poster Award
2018 Alpha Omega Alpha Honor Medical Society, elected
2019 Medical College of Wisconsin Scholarly Travel Award
2019 Triological Society Student Travel Award
2019 Dr. Thomas W. Grossman Award for student performance in
otolaryngology
2022 Highlighted abstract, Molecular Biology of Hearing & Deafness
Conference
2022 Resident Research Award, University of Iowa Dept. Otolaryngology-Head
& Neck Surgery
2023 AAO-HNS Section for Residents & Fellows Leadership Travel Grant
2024 Resident Research Award, University of Iowa Dept. Otolaryngology-Head
& Neck Surgery
2024 Updegraff Travel Award for performance on ABOto Otolaryngology
Training Exam
2025 Iowa Head & Neck Protocols annual best protocol award
2025 Chief resident, elected

STATE LICENSURE

2019-2026 Iowa state medical trainee license
2026-present Washington state medical trainee license

PROFESSIONAL ORGANIZATIONS

2018-present Alpha Omega Alpha Honor Medical Society
2020-present American Academy of Otolaryngology-Head & Neck Surgery
2021-present Association for Research in Otolaryngology

LEADERSHIP/COMMITTEES/EDUCATION

2015-2019	MCW-CARES, public relations officer and event coordinator
2016-2019	MCW Physicians for the Arts, event coordinator
2017-2019	MCW Academic Enhancement Program, tutor
2017-2019	MCW Step 1 Preparation Program, program coordinator and tutor
2019-2026	AAO-HNS SRF, University of Iowa program representative
2020-2021	University of Iowa GME House Staff Council program representative
2021-2026	University of Iowa Otolaryngology Interview Committee, member
2022-2024	University of Iowa Otolaryngology Social Activities Committee, chair
2023-2024	spARO Education Committee, liaison
2024-2026	University of Iowa CORS, peer messenger
2024-2026	University of Iowa Difficult Airway Optimization Task Force

LECTURES, COURSES, AND PRESENTATIONS

INTERNATIONAL

2019	Invited panelist, OESO World Congress, Beijing, China: Pepsin as a diagnostic biomarker for reflux and aspiration.
------	--

LOCAL

2023	University of Iowa Otolaryngology Grand Rounds: Genetic testing in congenital hearing loss, 1/31/2023
2024	University of Iowa Otolaryngology Grand Rounds: Microtia and congenital aural atresia, 6/11/2024.
2024	University of Iowa Internal Medicine Grand Rounds: ENT Emergencies for the Internist, 11/25/2024.
2025	University of Iowa Otolaryngology Grand Rounds: Antifibrinolytics in otolaryngology – head and neck surgery, 3/11/2025.
2025-2026	University of Iowa Residency program didactics, pediatric and laryngology sections

EDITORIAL RESPONSIBILITIES

Ad hoc review of manuscripts for:

2020-present	Annals of Otolaryngology, Rhinology, & Laryngology
2022-present	Science Advances
2022-present	Laryngoscope
2024-present	Frontiers in Audiology and Otolaryngology
2024-present	BMC Gastroenterology
2025-present	Human Genetics
2026-present	European Archives of Oto-Rhino-Laryngology

BIBLIOGRAPHY**A. Manuscripts accepted/published**

1. **Klimara MJ**, Samuels TL, Johnston N, Chun RH, McCormick ME. Detection of pepsin in oral secretions of infants with and without laryngomalacia. *Ann Otol Rhinol Laryngol*. 2020 Mar;129(3):224-229. PMID: 31631681
2. **Klimara MJ**, Johnston N, Samuels TL, Poetker DM, Loehrl TA, Blumin JH, Bock JM. Correlation of salivary and nasal lavage pepsin with MII-pH testing. *Laryngoscope*. 2020 Apr;130(4):961-966. PMID: 31329290.
3. **Klimara MJ**, Randall DW, Allen J, Figueredo E, Johnston N. Proximal reflux: biochemical mediators, markers, therapeutic targets, and clinical correlations. *Ann N Y Acad Sci*. 2020 Dec;1481(1):127-138. PMID: 32401362.
4. **Klimara MJ**, Nishimura C, Wang D, Kolbe DL, Schaefer AM, Walls WD, Frees KL, Smith RJH, Azaiez H. De novo variants are a common cause of genetic hearing loss. *Genet Med*. 2022 Dec;24(12):2555-2567. PMID: 36194208
5. **Klimara MJ***, Iwasa Y*, Yoshimura H, Walls WD, Omichi R, West CA, Shibata SB, Ranum PT, Smith RJH. Mutation-agnostic RNA interference and engineered replacement rescues hearing in a murine model of DFNA36. *Life Sci Alliance*. 2023 Mar;6(3):e202201592. PMID: 36574989.
6. **Klimara MJ**, Smith RJH. Advances in cochlear gene therapies. *Curr Opin Pediatr*. 2023 Jul 7. doi: 10.1097/MOP.0000000000001273. PMID: 37417821.
7. **Klimara MJ**, Kocharyan A, Claussen AD. Imaging Case of the Month: Oval Window Atresia and Aberrant Branching of the Petrous Internal Carotid. *Otol Neurotol*. 2023 Oct 1;44(9):e695-e696. doi: 10.1097/MAO.0000000000003977. PMID: 37604508.
8. Kocharyan A, Daher GS, Curry SD, **Klimara MJ**, Farrokhian N, Coleman S, Oleson J, Manzoor NF, Carlson ML. Outcomes of Near-Total and Subtotal Resection of Sporadic Vestibular Schwannoma: A Systematic Review and Meta-Analysis. *Otolaryngol Head Neck Surg*. 2024 Sep;171(3):642-657. doi: 10.1002/ohn.823. PMID: 38822753.
9. Tish MM, Voss NA, Bertolli AX, **Klimara MJ**, Smith RJ, Thedens DR, Allamargot C, Hefti MM, Howard MA, Aldridge GM, Geerling JC. Normal Pressure Hydrocephalus in Adult Mice Causes Gait Impairment, Cognitive Deficits, and Urinary Frequency with Incontinence. *eNeuro*. 2024 Nov 26;11(11):ENEURO.0412-24.2024. doi: 10.1523/ENEURO.0412-24.2024. PMID: 39542734.
10. **Klimara MJ**, Hoffman MR. An unusual laryngeal mass: primary tumoral calcinosis of the larynx in a child. *Otolaryngology Case Reports*. 2025 Nov; 37. doi: 10.1016/j.xocr.2025.100710.
11. **Klimara MJ**, Shivnani D, McMurray JS, Hoffman MR. T-Graft for Single Stage Laryngotracheal Reconstruction: Revisiting a Previously Described Technique. *Laryngoscope Investig Otolaryngol*. 2026 Apr 25;11:e70426. doi: 10.1002/lio2.70426. PMID: 42046664.

12. Shivnani D, **Klimara MJ**, Shruthi MS, Amle DB, Lin ME, Kim I, Ashwath Ram RN, Raman EV, Aram G, Kobal MR, Speed OE, John MAS, Chhetri D. Role of Pediatric Otolaryngologist in Pediatric Tracheostomy Code Blue Cases: A New Safety Initiative. *Laryngoscope*. 2026 Jun;136(6):2769-2776. doi: 10.1002/lary.70422. Epub 2026 Feb 6. PMID: 41646023
13. **Klimara MJ***, DeVries J*, Odell AM, Kolbe DL, Meyer N, Harlan PL, Azaiez H, Smith RJH. Identification of a Novel Founder *EYA4* Structural Variant in North America. *Human Mutation*. 2026 Jul. doi: <https://doi.org/10.1155/humu/4463081>

B. Book chapters/educational material

1. **Klimara MJ**, Nanchal R, Johnston N. (2018). Incidence and risk of aspiration in mechanically ventilated patients. In Morice AH, Dettmar P (Eds.), *Reflux Aspiration and Lung Disease* (pp. 235-245). New York, NY: Springer Publishing.
2. **Klimara MJ**, Johnston N. (2019) Basic Science Considerations for Laryngopharyngeal Reflux. In: Carroll TL (Ed.), *Chronic Cough* (pp. 81-97). San Diego, CA: Plural Publishing.
3. West C, Ranum PT, Omichi R, Iwasa Y, **Klimara MJ**, Walls DW, Koh JY, Smith RJH. A Manual Technique for Isolation and Single-Cell RNA Sequencing Analysis of Cochlear Hair Cells and Supporting Cells (2022). In: Groves AK (Ed.) *Developmental, Physiological, and Functional Neurobiology of the Inner Ear: Neuromethods*, vol 176. New York, NY: Springer Publishing
4. **Klimara MJ**, Thorpe RK, Smith RJH (2026). 149: Genetic Sensorineural Hearing Loss. *Cummings Otolaryngology*, 8th Edition. Philadelphia, PA: Elsevier.
5. **Klimara MJ**, Hoffman MR, Kacmarynski D, Manaligod J. Tonsillectomy bleed management including dosing of TXA (tranexamic acid). In: Hoffman HT (Ed.) *Iowa Head and Neck Protocols*. <https://medicine.uiowa.edu/iowaprotocols/tonsillectomy-bleed-management-includes-dosing-txa-tranexamic-acid>

C. Invited talks

1. **Klimara MJ**. Pepsin as a diagnostic biomarker for reflux and aspiration. Invited panelist at: OESO World Congress; November, 2019; Beijing, China.

D. Conference presentations

1. **Klimara MJ**, Samuels TL, Johnston N, Chun RH, McCormick ME. Detection of pepsin in oral secretions of infants with and without laryngomalacia. Oral presentation at: Triological Society Combined Sections Meeting; January, 2019; Coronado, CA.
2. **Klimara MJ**, Johnston N, Samuels TL, Blumin JH, Bock JM. Correlation of salivary and nasal lavage pepsin with MII-pH testing. Oral presentation at: Triological Society Combined Sections Meeting; January, 2019; Coronado, CA.

3. **Klimara MJ**. Pepsin as a diagnostic biomarker for reflux and aspiration. Invited panelist at: OESO World Congress; November, 2019; Beijing, China.
4. Ali M, Nanchal R, Nagavally S, Zellner-Jones S, Sharwani S, **Klimara MJ**, Samuels TL, Ahmad S, Taneja A, Johnston N. Tracheal pepsin and amylase as biomarkers of clinical outcomes in mechanically ventilated patients. Oral presentation at: Chest Annual Meeting; October 2020.
5. **Klimara MJ**, Walls WD, Ranum PT, Trefz TH, Vannoy CM, Smith RJH. Single-Cell RNA Sequencing Reveals Age-Related Patterns of Expression of Hereditary Deafness Genes in Outer Hair Cells. Oral presentation at: Association for Research in Otolaryngology MidWinter Meeting; February 2022.
6. **Klimara MJ**, Kolbe DL, Walls WD, Marini RJ, Schaefer AM, Wang D, Frees KL, Nishimura CJ, Smith RJH. *De novo* mutation is a common cause of genetic hearing loss. Poster presentation at: Association for Research in Otolaryngology MidWinter Meeting; February 2022.
7. Vannoy CM, **Klimara MJ**, Walls WD, Trefz TH, Smith RJH, and Azaiez H. Single-cell RNA sequencing reveals age-associated patterns of hair bundle gene expression. Poster presentation at: Molecular Biology of Hearing and Deafness Conference; May 2022.
8. **Klimara MJ**, Nishimura C, Wang D, Kolbe DL, Schaefer AM, Walls WD, Frees KL, Smith RJH, and Azaiez H. *De novo* mutation is a common cause of genetic hearing loss. Oral presentation at: Molecular Biology of Hearing and Deafness Conference; May 2022.
9. **Klimara MJ**, Iwasa Y, Yoshimura H, Walls WD, Omichi R, West CA, Akinbo TI, Trefz TH, Shibata SB, Ranum PT, and Smith RJH. Mutation agnostic RNA interference with concomitant engineered gene replacement rescues hearing in a mature murine model of DFNA36. Poster presentation at: Molecular Biology of Hearing and Deafness Conference; May 2022.
10. **Klimara MJ**, Wang D, Kolbe DL, Schaefer AM, Walls WD, Smith RJH. Clinical impacts of *de novo* mutations in hearing loss. Oral presentation at: American Academy of Otolaryngology-Head & Neck Surgery; October 2023.
11. **Klimara MJ**, Schaefer AM, Walls WD, Harlan PL, Azaiez H, Smith RJH. Unraveling the Phenotypic Spectrum of ACTG1-Related Disorders: Insights from Genotype Associations. Oral presentation at: Association for Research in Otolaryngology 2024 MidWinter Meeting; February 2024.
12. Kempton T, Hunger B, Hua RZ, Chu C, **Klimara MJ**, Hansen MR, Bennion DM. Physiologic Otoprotection via Renin-angiotensin System Blockade in Noise-Induced Hearing Loss Model. Poster presentation at: Association for Research in Otolaryngology MidWinter Meeting; February 2024.
13. Chu C, Eckard P, Hua RZ, Kempton TJ, Hunger B, **Klimara MJ**, Hansen MR, Bennion DM. Effects of Angiotensin Receptor Blockade on Cochlear Synaptopathy Following Noise Overexposure. Poster presentation at: Association for Research in Otolaryngology MidWinter Meeting; February 2024.

14. Chu C, Kempton T, Eckard P, Hua RZ, Hunger B, **Klimara MJ**, Hansen MR, Bennion DM. The Effect of Angiotensin Receptor Blockade Using Losartan in Otoprotection Against Noise-Induced Hearing Loss. Oral presentation at: American Academy of Otolaryngology-Head & Neck Surgery; September 2024.
15. Azaiez H, Odell AM, Kolbe DL, Wang D, Wong M, Nishimura C, Frees KL, Taylor A, Walls WD, Black-Ziegelbein EA, Mansilla A, Chin J, Booth KT, **Klimara MJ**, Knobbe K, Hovey L, Renkes E, Harlan P, Feng C, Hendon JE, Weaver AE, Smith RJH. The Genetic Landscape of Hearing Loss: Insights from a Multiethnic Cohort of over 7,700 Cases. Oral presentation at: Association for Research in Otolaryngology 2025 MidWinter Meeting; February 2025.
16. **Klimara MJ**, DeVries J, Odell AM, Kolbe DL, Meyer N, Harlan P, Azaiez H, Smith RJH. Identification of a Novel Founder *EYA4* Structural Variant in North America. Poster presentation at: Association for Research in Otolaryngology, 2026 MidWinter Meeting; February 2026.