

## W. KATHERINE KAO

ASSISTANT PROFESSOR, UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON,  
MCGOVERN MEDICAL SCHOOL

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### ACADEMIC EXPERIENCE

- July 2019 – present    **Assistant Professor**  
*University of Texas Health Science Center at Houston, McGovern Medical School*
- 2018 – June 2019    **Facial Plastic Surgery Fellow**  
*University of Miami*
- 2011 – 2018    **Otolaryngology Head and Neck Surgery, Residency**  
**T32 Research Scholar**  
*Washington University in St. Louis*
- 2008 – 2009    **Howard Hughes Medical Institute – NIH Research Scholar**  
*National Institutes of Health, Washington DC*
- 2006-2011    **Medical School, MD with Recognition in Research**  
*Stony Brook University School of Medicine*
- 2002-2006    **B.S. in Biochemistry, Summa Cum Laude**  
*SUNY Stony Brook*

### GRANTS AWARDED

- 2017    Centralized Otolaryngology Research Efforts (CORE) AAO-HNSF Core Grant

### PUBLICATIONS

1. **Kao WK**, Davis RE. Post-surgical alar retraction: Etiology and Treatment. Facial Plastic Surgery clinics. Revision Facial Plastic Surgery: Correcting Bad Results. *In Press*.
2. **Kao WK**, Chole RA, Ogden MA. Evidence of a Microbial Etiology for Sialoliths. Laryngoscope. Mar 2019 epub.
3. ETTYREDDY AR, **Kao WK**, ROLAND LT, RICH JT, CHI JJ. Utility of the LACE Scoring System in Predicting Readmission Following Tracheotomy and Laryngectomy. Ear Nose Throat J. 2019; 98(4): 220-222.
4. BHATT NK, **Kao WK**, PANIELLO RC. Compound Motor Action Potential Measures Acute Changes in Laryngeal Innervation. Annals of Otology, Rhinology and Laryngology. 2018; 127(10): 661-666.

5. **Kao WK**, Gagnon P, Vogel JP, Chole RA. Surface Charge Modification Decreases *Pseudomonas aeruginosa* Adherence in vitro and Bacterial Persistence in an in vivo Implant Model. *Laryngoscope*. 2017; 127(7): 1655-1661.
6. **Kao WK**, Parnes LS, Chole RA. Otolithic Membrane Fragments in the Semicircular Canal in Patients with BPPV. *Laryngoscope*. 2017; 127(3): 709-714.
7. **Kao WK**, Frye, M, Gagnon P, Vogel JP, Chole RA. D amino acids do not inhibit biofilm formation in *P. aeruginosa*. *Laryngoscope Investig Otolaryngol*. 2017; 2(1);4-9.
8. Vila PM, Townsend ME, Bhatt NK, **Kao WK**, Sinha P, Neely JG. The P Value Problem in Otolaryngology: Shifting to Effect Sizes and Confidence Intervals. *Otolaryngology Head and Neck Surgery*. 2017; 156(6):978-980.
9. Zenga J, Hahn S, **Kao K**, Chen C, Gross J, Chi J, Branham GH. Titanium mesh repair of through-and-through nasal defects without intranasal lining reconstruction. *Facial Plastic Surgery*. 2017; 33(1): 52-57.
10. Liou T, **Kao WK**. Benign Skin Lesions. In: Desai SC, ed. *Facial Plastic and Reconstructive Surgery: Clinical Reference Guide*. Plural Publishing; 2016; 429-436.
11. **Kao WK**, Gagnon PM, Vogel JP, Chole RA. FleQ, a Transcriptional Activator, Is Required for Biofilm Formation in vitro but does not Alter Virulence in a Cholesteatomas Model. *Otol. Neurotol*. 2016; 37(7): 977-83.
12. **Kao WK**, Chole RA. Biofilm disease and otitis. In: Kania R., Ars B., eds. *Biofilms in Otitis*. Amsterdam, Netherlands: Kugler Publications; 2015: 19-56.
13. **Kao WK**, Wang YH, Kleinman JE, Lipska BK, Hyde TM, Weinberger DR, Law AJ. Common Genetic Variation in Neuregulin 3 (NRG3) influences risk for schizophrenia and impacts NRG3 expression in human brain. *Proc Natl Acad Sci*. 2010; 107(35): 15619-24.
14. **Kao K**, Fu D, (2004) Purification and Crystallization of ZitB, a Zinc Transporter from *Escherichia coli*. *J. Undergraduate Research*; 2004: 4: 74-78.

## CONFERENCE ABSTRACTS/POSTER PRESENTATIONS

1. **Kao WK**, Gagnon PM, Chole RA. "Surface Charge Modification Inhibits *P. Aeruginosa* Adhesion and Biofilm Formation in vitro and Negative Surface Charge Modification Facilitates Eradication of *P. Aeruginosa* Biofilm Infection in an in vivo Rat Model." COSM, 2015. Boston, MA.
2. **Kao WK**, Gagnon PM, Chole RA. "FleQ, a Deficient Biofilm Forming Mutant of *P. aeruginosa* does not Influence Cholesteatoma Growth and Expansion in the Gerbil Model." COSM 2015. Boston, MA.
3. **Kao WK**, Wang YH, Weinberger DR, Law AJ. "Molecular Characterization of the Neuregulin 3 (NRG3) gene, Implications for Neurodevelopment and Schizophrenia." SFN 2009. Chicago, IL.
4. Law AJ, **Kao WK**, Weinberger DR. "Neuregulin 3 (NRG3) Genetic Variations and Susceptibility to Schizophrenia." SFN 2009. Chicago, IL.

**PROFESSIONAL MEMBERSHIP**

*2018 – present* American Academy of Facial Plastic Surgery

*2013 – present* American Rhinologic Society

*2011 – present* American Medical Association

*2011 – present* American Academy of Otolaryngology