

Grace Song

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Education

Bachelor of Sciences, Microbiology | University of Minnesota, Twin-Cities | December 2013

Non-degree seeking, Continuing Education | University of Minnesota, Twin-Cities | September 2015 – December 2017

Post-Baccalaureate Program | Northwestern Health Sciences University | May 2019 – May 2020

Doctor of Audiology | University of Minnesota, Twin Cities | September 2020 – present

Experience

Aug 2019 - Present

Researcher 2

Dr. Sebhattin Cureoglu's Otopathology laboratory, Otolaryngology department at University of Minnesota

Performed chinchilla studies to see the relationship between Alzheimer's disease and hearing loss.

Mice studies on the efficacy of stem cells in hearing loss

Investigated targeted treatment of otitis media in chinchillas with TCL medication

Manuscript review for conference and publications

Oct 2018 – Aug 2019

Research Assistant

Dr. Sebhattin Cureoglu's Otopathology laboratory, Department of Otolaryngology at University of Minnesota

Human temporal bone processing (removal from donors and embedding in celloidin media)

Trained a new junior laboratory technician

Routine staining with human and animal sections

Imaging for published research papers

Oct 2018 – May 2019

Medical Scribe

Tamarack HealthEast Clinic Pediatrics Department

Worked alongside Dr. Engstrom, MD, pediatric medicine

Helped chart wellness and follow-up visits

Witnessed outpatient procedures (laceration repair, wart removal, and circumcision)

Extensive use of Excel and Word for documentation

Practiced confidentiality healthcare with adolescent patients (age 15 years old and up)

Professional medical communication by interacting with a doctor and medical assistant

Jan 2017– Sep 2018

Medical Scribe

St. John's Hospital Emergency Department

Worked alongside with doctors, physician assistants, and nurse practitioner

Helped chart ED visits and documented code blue cases

Extensive use of Excel and Word for documentation

Worked eight to sixteen-hour shifts

Professional medical communication by interacting with doctors

Feb 2015 – Jan 2017

Junior Laboratory Technician

Dr. Sebahattin Cureoglu’s Otopathology laboratory, Department of Otolaryngology at University of Minnesota

- Extensive training in PCR for genotyping in patients with Meniere’s disease
- Human temporal bone processing (removal from donors and embedding in celloidin media)
- Routine staining with human and animal sections
- Worked with several international fellows on published articles
- Imaging for published research papers

May 2014 – Feb 2015

Research Assistant

Dr. Nicole Kwon’s laboratory, Department of Otolaryngology at University of Minnesota

- In vitro experiments to for biofilms on CDC bioreactors and confocal microscopy
- In vivo experiments with chinchillas for noninvasive treatments for otitis media
- Assisted in data collection and presentations
- Conducted mock presentations of literature articles
- Wrote grants/proposals
- Wrote several standard of operation protocols for several experiments

Oct 2012 – May 2014

Student Researcher

Dr. Steven Juhn’s Biochemistry and Audiology laboratory, Department of Otolaryngology at University of Minnesota

- Auditory brainstem response procedures (mice hearing levels were tested after treatment with UDCA)
- Investigated the relationship between otitis media and drug effects
- Data entry for hearing teats on mice
- Prepared proposals for grants
- Literature research

Jul 2011 – Jun 2012

Student Researcher

Dr. Sarah Hobbie’s Ecology laboratory, Department of Ecolog, Evolution, and Behavior at University of Minnesota

- Worked on two large projects (Prior Lake Samples and NutNet samples)
- Worked with several graduate students on projects
- Literature Review (finding media culture)

Trained Skills

Western blots	PCR	Cyro-tissue embedding and sectioning
Immunofluorescent microscopy	Adobe Photoshop	
ELISA	Word/Excel/PowerPoint	
Cell culture	Hematoxylin and Eosin staining	
Auditory Brainstem Response	Microtome sectioning	
Immunohistochemistry	Paraffin embedding	
Confocal microscopy	Celloidin embedding	

Presentations

Mio Uchiyama, **Grace Song**, Rafael Monsanto, Michael Paparella, Sebahattin Cureoglu. (2019) *Pathologic Changes of Inner Ear Following Head Trauma*. Poster presented at the AAO-HNSF New Orleans, LA September 2019.

Sancak, IG., Kankimalla, K., Song, D., Monsanto, RC., Uchiyama, M., **Song, G.**, Paparella, MM., Cureonglu, S. (Jan 2020). *Matrigel Coated Mammalian Embryonic Stem Cells Survival in Artificial Endolymph*. Poster presented at the congress of ARO 43rd MidWinter Meeting, San Jose, CA

Rafael Monsanto, Renata Knoll, Norma Penido, Mio Uchiyama, **Grace Song**, Michael Paparella and Seb Cureoglu. (2019). *Otopathologic findings in temporal bones from patients with CHARGE syndrome*. Poster scheduled to be presented at the AAO-HNSF Boston, MA September 2020.

Publications

da Costa Monsanto R, Knoll RM, de Oliveira Penido N, **Song Grace**, Santos Felipe, Paparella MM, Cureoglu Sabahattin. Otopathologic Abnormalities in CHARGE Syndrome. *Otolaryngology–Head and Neck Surgery*. April 2021.
doi:[10.1177/01945998211008911](https://doi.org/10.1177/01945998211008911)

Mio Uchiyama, **Grace Park**, Rafael Monsanto, Michael Paparella, Sebahattin Cureoglu. “Pathologic Changes of Inner Ear Following Head Trauma.”

Gul Sancak, I., Kandimalla, K., Song, D., Monsanto, RC, Uchiyama, M., **Song, G.**, Paparella, M., Cureonglu, S. “Matrigel-coated Mammalian ESCs survival in artificial Endolymph”. N.A. (In progress)