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**Education:**

Kurume University School of Medicine (2006-2012)  
Kurume, JAPAN  
Doctor of Medicine

Kurume University School of Medicine, Graduate School (2015-2019)  
Kurume, JAPAN  
Doctor of Philosophy

**Work History:**

Assistant Research Professor in Saint Louis University, Doisy College of Health Sciences, St. Louis, MO (July in 2023-)  
Assistant Professor in Department of Otolaryngology-Head and Neck Surgery, Kurume University School of Medicine, Kurume, Japan (2014 to June in 2023)  
Department of Otolaryngology-Head and Neck Surgery, Kurume University Hospital, Kurume, JAPAN (2014 to June in 2023)

Resident in Kurume University Hospital (2012-2014)  
Kurume, JAPAN

**Appointment:**

Assistant Research Professor in Saint Louis University, Doisy College of Health Sciences, St. Louis, MO (July in 2023-)  
Assistant Professor in Department of Otolaryngology-Head and Neck Surgery Kurume University School of Medicine, Kurume, Japan (2014 to June in 2023)

**Licenses:**

Physician's license, Japan, #505252 (2012 to present)

**Certifications:**

Diplomate, Board Certified Otorhinolaryngologist, Japanese Society of Otorhinolaryngology-Head and Neck Surgery, 2019  
Diplomate, Japan Bronchoesophagological Association, 2019

**Research:**

Participated in several research projects in Department of Otolaryngology-Head and Neck Surgery, Kurume University School of Medicine.  
Worked in the Department of Pathology and specialized in the molecular biology of the vocal fold and general pathology while at the Graduate School of Medicine.  
Acquired the basic experimental techniques of molecular biology including handling animal experiments.

Research grant (a Grant-in-Aid for Scientific Research, No. 22K16907)

from the Japan Society for the Promotion of Science to study “Three dimensional fine structures of the vocal fold mucosa using focus ion beam/scanning electron microscopy and correlative light and electron microscopy” at Kurume University School of Medicine, 2022-2023.

Research grant from the Kurume University Millennium Box Foundation for the Promotion of Science to study “Three dimensional fine structures of the vocal Fold mucosa using focus ion beam/scanning electron microscopy”, at Kurume University School of Medicine, 2021.

Research grant (Private University Research Branding Project) from the Japan Society for the Promotion of Science to study “Tissue stem cell and stem cell niche of human vocal fold mucosa”, at Kurume University School of Medicine, 2019.

**Professional Societies (Japan):**

Japanese Society of Otorhinolaryngology-Head and Neck Surgery  
Japan Laryngological Association  
Japan Broncho-Esophagological Society  
Japan Society of Logopedics and Phoniatics  
Japan Society of Stomato-pharyngology  
The Society of swallowing and Dysphasia of Japan  
Japan Society for Head and Neck Surgery  
Japan Society for Head and Neck Cancer  
Japan Otological Society  
Japan Rhinologic Society  
Japanese Society of Sleep Research

**Publications:**

Authored **62 scientific articles** in Japanese and in English on Otolaryngology-Head and Neck Surgery.

(A list of publications in English is attached.)

(A list of publications in Japanese is available on request.)

**Presentations:**

Conducted **20 formal presentations** on Otolaryngology-Head and Neck Surgery over the past 8 years; these presentations were for physician audiences at local, national, and international meetings.

## Articles Published (in English)

1. Oka T, Sato F, Ono T, Kawaguchi T, Murotani K, Sueyoshi S, Kuroiwa T, Kurita T, Fukahori M, Mitsuhashi T, Sato K, Chitose SI, Umeno H: Prognostic values of systemic inflammation and nutrition-based prognostic indices in oropharyngeal carcinoma. *Laryngoscope Investig Otolaryngol* 2023, in press.
2. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Vascularity in the macula flava of human vocal fold as a stem cell niche. *Auris Nasus Larynx* 2022, in press.
3. Sato K, Nishimura T, Sato K, Sato F, Chitose SI, Umeno H: Comparative histoanatomy of the epiglottis and preepiglottic space of the lemur larynx. *J Voice* 2022, in press
4. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Laryngeal spaces in the newborn larynx. *Auris Nasus Larynx* 2022; 49: 652-657.
5. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Dysphasia precipitated by cervical lordosis in the aged. *Ear Nose Throat J* 2022; 101: 194-198.
6. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Optimal timing of endoscopic sinus surgery for the retention cyst of maxillary sinus. *J Laryngol Otol* 2022, in press.
7. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Glycolysis of tissue stem cells in the maculae flava of newborn vocal fold. *J voice* 2022, in press.
8. Sato K, Kurita T, Sato F, Ohta K, Sato K, Chitose SI, Ono T, Umeno H: Three-dimensional fine structures of the maculae flavae of the human vocal fold using CLEM. *Laryngoscope Investig Otolaryngol* 2022; 7: 1943-1950.
9. Sato K, Chitose SI, Sato F, Sato K, Ono T, Umeno H: Ultrastructures of colony-forming tissue stem cells in the human newborn vocal fold mucosa in vivo. *Larynx Japan* 2022; 34: 151-156.
10. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Pathophysiology of current odontogenic maxillary sinusitis and endoscopic sinus surgery preceding dental treatment. *Auris Nasus Larynx*. 2021: 1: 104-109.
11. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Fine structures of colony-forming tissue stem cells in the macula flava of human vocal fold in vivo. *Larynx Japan* 2021; 33: 217-223.
12. Kawaguchi T, Ono T, Sato F, Kawahara A, Kakuma T, Akiba J, Sato K, Chitose SI, Umeno H: CD8+ T Cell Infiltration Predicts Chemoradiosensitivity in Nasopharyngeal or Oropharyngeal Cancer. *Laryngoscope*. 2021: 4: E1179-E1189.
13. Sato F, Ono T, Kawahara A, Matsuo K, Kondo R, Sato K, Akiba J, Kawaguchi T, Kakuma T, Chitose SI, Umeno H, Yano H. Prognostic Value of Tumor Proportion Score in Salivary Gland Carcinoma. *Laryngoscope*. 2021: 5: E1481-E1488.
14. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Recurrent aspiration pneumonia precipitated by obstructive sleep apnea. *Auris Nasus Larynx*. 2021: 4: 659-665.
15. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Epithelium of the human vocal fold as a vibrating tissue. *Auris Nasus Larynx*. 2021: 4: 704-709.
16. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Dysphagia Precipitated by Cervical Lordosis in the Aged. *Ear Nose Throat J*. 2020, in press.
17. Sato K, Chitose SI, Sato F, Sato K, Kurita T, Ono T, Umeno H: Heterogeneity and hierarchy of the tissue stem cells in the human adult vocal fold mucosa. *Larynx Japan* 2021; 33: 26-30.
18. Sato K, Kurita T, Chitose SI, Sato F, Sato K, Umeno H: Distribution of label-retaining cells and their properties in the newborn vocal fold mucosa, *J Voice*. 2021, in press.

19. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Glycolytic activity of the tissue stem cells in the macula flava of the human vocal fold. *Laryngoscope Investig Otolaryngol*. 2021; 1: 122-128.
20. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Role of colony-forming tissue stem cells in the macula flava of the human vocal fold in vivo. *Laryngoscope Investig Otolaryngol*. 2021; 2: 283-290.
21. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Energy metabolism of cells in the macula flava of the newborn vocal fold from the aspect of mitochondrial microstructure. *J Laryngol Otol* 2021; 135: 779-784.
22. Sato K, Ono T, Sato F, Kawahara A, Azuma K, Kawaguchi T, Akiba J, Umeno H: Different responses to nivolumab therapy between primary and metastatic tumors in a patient with recurrent hypopharyngeal squamous cell carcinoma. *Oral Oncol* 2020; 101: 104366.
23. Chitose SI, Sato K, Fukahori M, Kurita T, Sato K, Sato F, Umeno H: Lateral pharyngeal flap with a double pedicle for repair unilateral velopharyngeal insufficiency. *Auris Nasus Larynx* 2020; 47: 245-249.
24. Sato K, Chitose SI, Ono T, Sato K, Sato F, Kurita T, Umeno H: Cytoskeleton of cells in vocal fold macula flava unphonated for a long period. *Auris Nasus Larynx* 2020; 47: 1033-1037.
25. Mihashi R, Chitose SI, Sato F, Tanaka H, Sato K, Ono T, Fukahori M, Sueyoshi S, Kurita T, Sato K, Umeno H. Endoscopic Sealing With a Polyglycolic Acid Sheet for Restoration of Vocal Fold Mucosa in Dogs. *Laryngoscope* 2020; 130: E436-443.
26. Sato K, Chitose SI, Sato F, Sato K, Ono T, Umeno H: Heterogeneity and hierarchy of the tissue stem cells in the human newborn vocal fold mucosa. *Laryngoscope Investig Otolaryngol* 2020; 5: 903-910.
27. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H. Sleep-related deglutition and respiratory phase patterns in the aged with obstructive sleep apnea under CPAP therapy. *Acta Otolaryngol* 2020; 140: 861-868.
28. Sato K, Chitose SI, Sato K, Sato F, Ono T, Umeno H: Histopathology of maxillary sinus mucosa with odontogenic maxillary sinusitis. *Laryngoscope Investig Otolaryngol*. 2020; 5: 205-209.
29. Sato F, Chitose SI, Sato K, Kurita T, Sato K, Umeno H, Yano H: Differential potential of the cells in the macula flava of the human vocal fold mucosa. *Acta Histochem* 2019; 2: 164-170.
30. Ono T, Sakata K, Tanaka N, Hashiguchi S, Migita H, K, Kiyokawa K, Morioka M, Kurita T, Sato K, Takeshige N, Umeno H: Salvage surgery for a locally persistent or recurrent tumour in maxillary cancer patients who have undergone radiotherapy and concomitant intra-arterial cisplatin: implications for surgical margin assessment. *Int J Oral Maxillofac Surg* 2019, 48: 567-575.
31. Sato K, Kurita T, Chitose SI, Sato K, Umeno H, Yano H: Distribution of label-retaining cells and their properties in the vocal fold mucosa. *Laryngoscope Investigative Otolaryngology*, 2019; 4: 76-82.
32. Sato K, Chitose SI, Sato K, Sato F, Kurita T, Umeno H: Metabolic activity of cells in the macula flava of the human vocal fold from the aspect of mitochondrial microstructure. *Laryngoscope Investig Otolaryngol* 2019; 4: 405-409.
33. Fukahori M, Chitose SI, Sato K, Kamimura H, Sato K, On R, Umeno H: Augmentation surgery on the cartilaginous portion of the vocal fold in a patient with cricoarytenoid joint ankylosis. *Auris Nasus Larynx* 2018; 4: 885-889.
34. Sato K, Mihashi R, Kurita T, Umeno H, Yoshida T, Kawahara A, Akiba J, Yano H: Significance of cytodiagnosis in primary carcinoid tumor of the middle ear: A case report. *Oncol Lett* 2018; 5: 8062-8066.

35. Sato K, Chitose SI, Sato K, Sato F, Umeno H: Permeability and Weibel-Palade Bodeis of the Blood Vessels in the Human Vocal Fold Mucosa. *Laryngoscope* 2018; 11: 2588-2592.
36. Sato K, Akiba J, Nakamura K, Abe H, Kawahara A, Aso T, Umeno H, Harada H, Yano H: Mucoepidermoid carcinoma of the sublingual gland harboring a translocation of the MAML2 gene: A case report. *Oncol Lett* 2017; 3: 2970-2974.
37. Sato K, Chitose SI, Sato K, Umeno H: Deglutition and respiratory patterns during sleep in the aged. *Acta Otolaryngol* 2016; 12: 1278-1284.