

## Curriculum Vitae

### Sho Kanzaki MD PhD

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### Research field

Otolaryngology specialist

# Clinical otology and neurotology

Otologic and Neurotologic research

(middle ear surgery, cochlear implant and sensorineural hearing loss

# Basic research

Drug and gene therapy

Bone metabolism of middle ear

Protection of cochlear damage

# Clinical Allergy

# Olfactory disorder

### Awards

1. **Award of American Academy of Otolaryngology-Head and Neck Surgery (AAOHNs)** Kanzaki S, et al:“In vivo imaging analysis of an inner ear drug delivery :Combined injections”, Kanzaki S, et al (Sep 2019 New Orleans USA)
2. **1st Global otology research forum (GLORF) Award** (Nov.13 2013, Antalya, Turkey) Kanzaki S, et al Novel in vivo imaging analysis of an inner ear (spiral ganglion) drug delivery system in mice.
3. **25<sup>th</sup> Politzer society meeting (international otologic society meeting) award (2005 Seoul ,Korea)** Kanzaki S, “Bone resorption of auditory ossicles in opg knockout mice”
4. **Award of Annual Meeting American Academy of Otolaryngology Head and Neck Surgery.** Hayashi K, Goto F, Kanzaki S, Ogawa K; The molecular mechanism of autophagy in auditory cells. & OTO Expo in Boston, MA ,USA , 2010.9
5. **Medical Award of the Japan Medical Association (2014)**
6. Tokyo medical association encouragement Award (2009)
7. Japan foundation for aging and health Award (2005)
8. Keio University School of Medicine, Sanshikai Award

## **Society and Working group**

1. **Member of the Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum (CORLAS)**
2. International Working Group on Endoscopic Ear Surgery (IWGEES)
3. Association in research in otolaryngology (ARO) active member
4. Japanese society of otolaryngology Head and Neck surgery
5. Japan Otological society
6. Japan Audiological society
7. Japan society for Equilibrium Research
8. Japanese Society of Allergology

## **Past Faculty and Working group member**

1. East Asian Symposium on Otolaryngology 2022 Local organizing committee member
2. European academy of otology and neuro-otology (EAONO) and 6<sup>th</sup> International Workshop and Consensus in Auditory Implants 2016 Congress Faculty Member
3. Japan Korea Meeting 2016 (Tokyo) (Mar 28-30,2016) **General secretary**
4. Inner ear biology meeting in Kyoto (2014) Congress Faculty Member
5. 29<sup>th</sup> Politzer meeting faculty member
6. 10<sup>th</sup> International symposium Recent advances in Otitis media research Editorial member
7. European academy of otology and neuro-otology (EAONO) and 6<sup>th</sup> International Workshop and Consensus in Auditory Implants 2012 Congress Faculty Member for the meeting

## **Journal Editorial Board**

Associate Editor of Frontiers in Neurology (Otolaryngology)

Associate Editor of Frontiers in Pharmacology (Neuropharmacology section)

Chief Editor of Research Topic (Frontiers in Pharmacology) : Identifying Novel Drug Delivery Systems and Treatments for Hearing Loss and Related Ear Disorders 1st and 2nd edition

## **Education and Occupation**

1994 graduated Keio University medical school

1994 department of otolaryngology (MD)

1999 special otolaryngologist in Japan

1998-2002 a graduated student of department of otolaryngology in Keio University medical school (PhD)

### **Thesis**

“Kanzaki S, Ogawa K, Camper SA, Raphael Y. Transgene expression in neonatal mouse inner ear explants mediated by first and advanced generation adenovirus vectors.”

1999-2001 Research fellow in Kresge Hearing Research Institute University of Michigan (Yeosh Raphael laboratory).

2005- Faculty member in department of Keio University School of Medicine

2012- Assistant professor Department of Otorhinolaryngology, Head and neck Surgery, Keio University School of Medicine

2020- Vice president of Keio university Allergy Center

**2022-** Director, Laboratory of auditory disorders, National Institute of Sensory Organs, National Hospital Organization Tokyo Medical Center.

## List of Publications in English

### Original article

CA; corresponding author

1. Sakata H, Hayashi K, Matsuyama R, Omata T, Kanou M, Yamana K, **Kanzaki S**. Association between the development of sensorineural hearing loss and blood NAD<sup>+</sup> levels. *J Clin Med Res*. 2024 Dec;16(11):519-526. doi: 10.14740/jocmr6083. (IF 1.6) .
2. Oka A, Kanai K, Matsune S, Hosoya K, Komachi T, Murakami T, Okubo K, Hirano K, Suzaki I, Shimura T, Tokudome T, **Kanzaki S**, Wakabayashi KI, Ozawa H, Okamoto Y, Kondo K, Nishijima H, Nishijima A, Okano M. Assessment of patient satisfaction with dupilumab for chronic rhinosinusitis with nasal polyps. *Allergy* 2024 Oct 16. doi: 10.1111/all.16355. (IF 12.3)
3. Lee S, You H, Morita Y, **Kanzaki S**, Zhao F, Koike T. Classification of ossicular fixation based on a computational simulation of ossicular mobility. *Sci Rep*. 2024 Sep 3;14(1):20468. doi: 10.1038/s41598-024-71474-4. (IF 3.8)
4. Mori S, Murata Y, Morimoto T, Okamoto Y, **Kanzaki S**. Tests of human auditory temporal resolution: Simulations of Bayesian threshold estimation for auditory gap detection. *JASA Express Lett*. 2024 Sep 1;4(9):094402. doi: 10.1121/10.0028501. (IF 1.2)
5. **Kanzaki S**, Yamaguchi T, Suh MW. Editorial: Identifying novel drug delivery systems and treatments for hearing loss and related ear disorders, volume II. *Front Pharmacol*. 2024 Jul 29;15:1464254. doi: 10.3389/fphar.2024.1464254. eCollection 2024. (IF 4.4) .
6. **Kanzaki S(CA)**, Yamaguchi T, Suh MW. Editorial ;Recent Advancements in Intratympanic Drug Delivery Systems: How and Why. *Front. Pharmacol*. 15:1464254. doi: 10.3389/fphar.2024.1464254.
7. Okada M, Ishida N, **Kanzaki S( cofirst authors)**, Kawada I, Nagashima K, Terai H, Hiruma G, Namkoong H, Asakura T, Masaki K, Ohgino K, Miyata J, Chubachi S, Kodama N, Maeda S, Sakamoto S, Okamoto M, Nagasaki Y, Umeda A, Miyagawa K, Shimada H, Minami K, Hagiwara R, Ishii M, Sato Y, Fukunaga K. Upper Respiratory Symptoms as Long COVID: Insight from a Multicenter Cohort Study. *OTO Open*. 2024 Mar 3;8(1):e120. doi: 10.1002/oto.2.120. eCollection 2024 Jan-Mar.
8. Terai H, Ishii M, Takemura R, Namkoong H, Shimamoto K, Masaki K, Tanosaki T, Chubachi S, Matsuyama E, Hayashi R, Shimada T, Shigematsu L, Ito F, Kaji M, Takaoka H, Kurihara M, Nakagawara K, Tomiyasu S, Sasahara K, Saito A, Otake S, Azekawa S, Okada M, Fukushima T, Morita A, Tanaka H, Sunata K, Asaoka M, Nishie M, Shinozaki T, Ebisudani T, Akiyama Y, Mitsuishi A, Nakayama S, Ogawa T, Sakurai K, Irie M, Yagi K, Ohgino K, Miyata J, Kabata H, Ikemura S, Kamata H, Yasuda H, Kawada I, Kimura R, Kondo M, Iwasaki T, Ishida N, Hiruma G, Miyazaki N, Ishibashi Y, Harada S, Fujita T, Ito D, Bun S, Tabuchi H, **Kanzaki S**, Shimizu E, Fukuda K, Yamagami J, Kobayashi K, Hirano T, Inoue T, Haraguchi M, Kagyo J, Shiomi T, Lee H, Sugihara K, Omori N, Sayama K, Otsuka K, Miyao N, Odani T, Watase M, Mochimaru T, Satomi R, Oyamada Y, Masuzawa K, Asakura T, Nakayama S, Suzuki Y, Baba R, Okamori S, Arai D, Nakachi I, Kuwahara N, Fujiwara A, Oakada T, Ishiguro T, Isosno T, Makino Y, Mashimo S, Kaido T, Minematsu N, Ueda S, Minami K, Hagiwara R, Manabe T, Fukui T, Funatsu Y, Koh H, Yoshiyama T, Kokuto H, Kusumoto T, Oashi A, Miyawaki M, Saito F, Tani T, Ishioka K, Takahashi S, Nakamura M, Harada N, Sasano H, Goto A, Kusaka Y, Ohba T, Nakano Y, Nishio K, Nakajima Y, Suzuki S, Yoshida S, Tateno H, Kodama N, Maeda S, Sakamoto S, Okamoto M, Nagasaki Y, Umeda A, Miyagawa K, Shimada H, Hagimura K, Nagashima K, Sato T, Sato Y, Hasegawa N, Takebayashi T, Nakahara J, Mimura M, Ogawa K, Shimmura S, Negishi K, Tsubota K, Amagai M, Goto R, Ibuka Y, Kitagawa Y, Kanai T, Fukunaga K. Comprehensive analysis of long COVID in a Japanese nationwide prospective cohort study. *Respir Investig*. 2023 30;61(6):802-814.

9. Mori S, Morimoto T, Murata Y, Okamoto Y, Kanzaki S. Tests of human auditory temporal resolution: preliminary investigation of ZEST parameters for amplitude modulation detection. *Front Neurosci.*;17:1148476. 2023.
10. Sakata H, Suzutani T, Kanzaki S, Ogawa K, Kaga K: Efficacy of transtympanic infusion of dexamethasone into the tympanic cavity in mice with acute sensorineural hearing loss associated with cytomegalovirus infection. *Acta otolaryngol* 142:647-652,2022,
11. Kanzaki S(CA), Shibata S, Nakamura M, Ozaki M, Okano H: In vivo imaging Analysis of an inner ear drug edelivery in mice: comparison of inner ear drug concentrations over time. *Methods Mol Biol* 2524:327-332,2022,
12. Yoshida A, Hosoya M, Kanzaki S, Fujioka M, Ozawa H. Transcanal endoscopic ear surgery for management of ossicular malformation: clinical outcomes of 17 cases. *Acta otolaryngol* 142:154-160,2022,
13. Hosoya K, Komachi T, Masaki K, Suzuki I, Saeki H, Kanda N, Nozaki M, Kamide Y, Matsuwaki Y, Kobayashi Y, Ogino E, Osada SI, Usukura N, Kurumagawa T, Ninomia J, Asako M, Nakamoto K, Yokoi H, Ohyama M, Tanese K, Kanzaki S, Fukunaga K, Ebisawa M, Okubo K: Barrier Factors of Adherence to Dupilumab Self-Injection for Severe Allergic Disease: A Non-Interventional Open-Label Study. *Patient Prefer Adherence* 17:861-872,2023
14. Yoshida A, Hosoya M, Kanzaki S, Fujioka M, Ozawa H. Transcanal endoscopic ear surgery for management of ossicular malformation clinical outcomes of 17 cases. *Acta Otolaryngologica*;142(2):154-160.
15. Nakagawara K, Namkoong H, Terai H, Masaki K, Tanosaki T, Shimamoto K, Lee H, Tanaka H, Okamori S, Kabata H, Chubachi S, Ikemura S, Kamata H, Yasuda H, Kawada I, Ishii M, Ishibashi Y, Harada S, Fujita T, Ito D, Bun S, Tabuchi H, Kanzaki S, Shimizu E, Fukuda K, Yamagami J, Kobayashi K, Hirano T, Inoue T, Kagyo J, Shiomi T, Ohgino K, Sayama K, Otsuka K, Miyao N, Odani T, Oyamada Y, Masuzawa K, Nakayama S, Suzuki Y, Baba R, Nakachi I, Kuwahara N, Ishiguro T, Mashimo S, Minematsu N, Ueda S, Manabe T, Funatsu Y, Koh H, Yoshiyama T, Saito F, Ishioka K, Takahashi S, Nakamura M, Goto A, Harada N, Kusaka Y, Nakano Y, Nishio K, Tateno H, Eda Hiro R, Takeda Y, Kumanogoh A, Kodama N, Okamoto M, Umeda A, Hagimura K, Sato T, Miyazaki N, Takemura R, Sato Y, Takebayashi T, Nakahara J, Mimura M, Ogawa K, Shimmura S, Negishi K, Tsubota K, Amagai M, Goto R, Ibuka Y, Hasegawa N, Kitagawa Y, Kanai T, Fukunaga K. Comprehensive and long-term surveys of COVID-19 sequelae in Japan, an ambidirectional multicentre cohort study: study protocol. *BMJ Open Respir Research*. 2021 8(1):e001015. doi:10.1136/bmjresp-2021- 001015. PMID: 34836924
16. Li Y, Kanzaki S(CA), Shibata S, Nakamura M, Ozaki M, Okano H, Ogawa K. Comparison of Drug Availability in the Inner Ear After Oral, Transtympanic, and Combined Administration. *Frontiers in Neurology*. 2021 19;12:641593.
17. Sawamura S, Ogata G, Asai K, Razvina O, Ota T, Zhang Q, Madhurantakam S, Akiyama K, Ino D, Kanzaki S, Saiki T, Matsumoto Y, Moriyama M, Saijo Y, Horii A, Einaga Y, Hibino H. Analysis of Pharmacokinetics in the Cochlea of the Inner Ear. *Frontiers in Pharmacology*. 2021 ;12:633505. doi:10.3389/fphar.2021. 633505. eCollection 2021.
18. Hayashi K, Suzuki Y, Fujimoto C, Kanzaki S. Molecular Mechanisms and Biological Functions of Autophagy for Genetics of Hearing Impairment. *Genes (Basel)*. 2020;11(11):1331. doi: 10.3390/genes11111331.
19. Kanemaru SI, Kanai R, Omori K, Yamamoto N, Okano T, Kishimoto I, Ogawa K, Kanzaki S, Fujioka M, Oishi N, Naito Y, Kakehata S, Nakamura H, Yamada S, Omae K, Kawamoto A, Fukushima M. Multicenter phase III trial of regenerative treatment for chronic tympanic membrane perforation. *Auris Nasus Larynx*

- 2021:S0385-8146(21)00065-1. doi: 10.1016/j.anl.2021.02.007.
20. Kanzaki S(CA), Takahashi S, Toda M, Yoshida K, Ogawa K. Pros and Cons of the Exoscope for Otologic Surgery. *Surgical Innovation* 2021;28(3):360-365. doi: 10.1177/1553350620964151.
  21. Kanzaki S(CA), Kanzaki J, Ogawa K. Surgical Treatment of Otosclerosis Using a Unique Stapes Prosthesis Without Hook. *Acta Otolaryngologica* 2021;141(1):10-13. doi: 10.1080/00016489.2020.1813907. Epub 2020 Sep 12. PMID: 32921218
  22. Hanawa A, Ogata G, Sawamura S, Asai K, Kanzaki S, Hibino H, Eianga Y. *In vivo* real-time simultaneous examination of drug kinetics at two separate locations using boron doped diamond microelectrodes. *Analytic Chemistry* 2020;92(20): 13742-13749. doi: 10.1021/acs.analchem.0c01707. Epub 2020 Aug 27. PMID: 32786440
  23. Kanzaki S(CA), Toyoda M, Umezawa A, Ogawa K. :Application of Mesenchymal Stem Cell Therapy and Inner Ear Regeneration for Hearing Loss: A Review *International Journal of Molecular Science* 2020.21(16),5764; <https://doi.org/10.3390/ijms21165764>
  24. Watabe T, Kanzaki S(CA), Sato N, Matsunaga T, Muramatsu M, Ogawa K.:Single nucleotide polymorphisms in tinnitus patients exhibiting severe distress" *Scientific Reports* 2020 Aug 3;10(1):13023. doi: 10.1038/s41598-020-69467-0.
  25. Nakagawara K, Uwamino Y, Kabata H, Uchida S, Uno S; Asakura T, Funakoshi T, Kanzaki S. Ishii M, Hasegawa N, Fukunaga K.:Acute Onset Olfactory/Taste Disorders are Associated with a High Viral Burden in Mild or Asymptomatic SARS-CoV-2 Infections. *International Journal of Infectious Diseases*. 2020 Jul 26:S1201-9712(20)30578-6. doi: 10.1016/j.ijid.2020.07.034. Online ahead of print. PMID:32726723.
  26. Suzuki N, Kanzaki S(CA), Suzuki T, Ogawa K, Yamagishi H.:Clinical features of 22q11.2 deletion syndrome related to hearing and communication. *Acta Otolaryngologica*.;140(9):736-740. 2020. doi: 10.1080/00016489.2020.1769862.
  27. Kanzaki S(CA), Ogawa K.:How effect is educational counseling prior to middle ear surgery for patients with both middle ear diseases and consistent tinnitus? *Acta Otolaryngologica*;140(4):289-291. 2020.
  28. Ogawa K, Sato H, Takahashi M, Wada T, Naito Y, Kawase T, Murakami S, Hara A, Kanzaki S (CA).:Clinical practice guidelines for diagnosis and treatment of chronic tinnitus. *Auris Nasus Larynx* 2019.
  29. Li Y, Kanzaki S(CA), Shibata S, Nakamura M, Ozaki M, Okano H, Ogawa K.:Comparison of inner ear drug availability of combined treatment with systemic or local drug injections alone. *Neuroscience Research* pii: S0168-0102(19)30250-0. 2019. doi:10.1016/j.neures.2019.07.001.
  30. Hommura T, Dan K, Kanzaki S, Ogawa K.:Evaluation of the therapeutic potential and underlying mechanisms of synephrine, a component of Kampo medicine, against allergic rhinitis *Cogent Biology* 5: 1592274 2019.
  31. Koike T, Irie Y, Ebine R, Fujishiro T, Kanzaki S, Keat CS, Higo T, Ohoyama K, Hayashi M, Ikegami H :Development of intra-operative assessment system for ossicular mobility and middle ear transfer function.*Hearing Research* S0378-5955(18)30376-9. 2018.
  32. Kanzaki S(CA). :Gene delivery into the inner ear and its clinical implications for hearing and balance. *Molecules*.;23(10). pii: E2507. 2018
  33. Kumazaki H, Okamoto M, Kanzaki S, Okada KI, Mimura M, Minabe Y, Kikuchi M.:Approaches for assessing olfaction in children with autism spectrum disorder. *Methods in Molecular Biology*;1820:221-228. 2018.
  34. Morimoto T, Irino T, Harada K, Nakaichi T, Okamoto Y, Kanno A, Kanzaki S, Ogawa K. Two-Point method for measuring the temporal modulation transfer Function. *Ear and*

- Hearing ;40(1):55-62. 2019.
35. Sato MP, Higuchi T, Nin F, Ogata G, Sawamura S, Yoshida T, Ota T, Hori K, Komune S, Uetsuka S, Choi S, Masuda M, Watabe T, Kanzaki S, Ogawa K, Inohara H, Sakamoto S, Takebayashi H, Doi K, Tanaka KF, Hibino H. Hearing loss controlled by optogenetic stimulation of nonexcitable nonglial cells in the cochlea of the Inner Ear. *Frontiers in Molecular Neuroscience* 21;1.eCollection. 2017.
  36. Kojima T, Kanzaki S(CA), Oishi N, Ogawa K. :Clinical characteristics of patients with tinnitus evaluated with the tinnitus sample case history questionnaire in Japan: A case series. *PLoS One.*;12(8):e0180609. eCollection. 2017.
  37. Iwasaki S, Usami SI, Takahashi H, Kanda Y, Tono T, Doi K, Kumakawa K, Gyo K, Naito Y, Kanzaki S(CA), Yamanaka N, Kaga K. :Round Window Application of an Active Middle Ear Implant: A comparison with hearing aid usage in Japan. *Otology Neurotology*;38(6):e145-e151.2017.
  38. Oishi N, Yamada H, Kanzaki S(CA), Kurita A, Takiguchi Y, Yuge I, Asama Y, Masuda M, Ogawa K. :Assessment of hyperacusis with a newly produced Japanese version of the Khalfa hyperacusis questionnaire. *Acta Otolaryngologica*;137(9):957-961. 2017.
  39. Kitoh R, Nishio SY, Ogawa K, Kanzaki S, Hato N, Sone M, Fukuda S, Hara A, Ikezono T, Ishikawa K, Iwasaki S, Kaga K, Kakehata S, Matsubara A, Matsunaga T, Murata T, Naito Y, Nakagawa T, Nishizaki K, Noguchi Y, Sano H, SShojaku H, Takahashi H, Takeda H, Tono T, Yamashita H, Yamasoba T, Usami SI.:Nationwide epidemiological survey of idiopathic sudden sensorineural hearing loss in Japan. *Acta Otolaryngologica*;137(sup565): S8-S16.2017.
  40. Yoshida T, Sone M, Kitoh R, Nishio SY, Ogawa K, Kanzaki S, Hato N, Fukuda S, Hara A, Ikezono T, Ishikawa K, Iwasaki S, Kaga K, Kakehata S, Matsubara A, Matsunaga T, Murata T, Naito Y, Nakagawa T, Nishizaki K, Noguchi Y, Sano H, Sato H, Suzuki M, Shojaku H, Takahashi H, Takeda H, Tono T, Yamashita H, Yamasoba T, Usami SI. :Idiopathic sudden sensorineural hearing loss and acute low-tone sensorineural hearing loss: a comparison of the results of a nationwide epidemiological survey in Japan. *Acta Otolaryngologica*;137(sup565):S38-S43. 2017.
  41. Okada M, Hato N, Nishio SY, Kitoh R, Ogawa K, Kanzaki S, Sone M, Fukuda S, Hara A, Ikezono T, Ishikawa K, Iwasaki S, Kaga K, Kakehata S, Matsubara A, Matsunaga T, Murata T, Naito Y, Nakagawa T, Nishizaki K, Noguchi Y, Sano H, Sato H, Suzuki M, Shojaku H, Takahashi H, Takeda H, Tono T, Yamashita H, Yamasoba T, Usami SI. :The effect of initial treatment on hearing prognosis in idiopathic sudden sensorineural hearing loss: a nationwide survey in Japan. *Acta Otolaryngologica.*;137(sup565):S30-S33.2017.
  42. Takanashi K, Dan K, Kanzaki S, Hasegawa H, Watanabe K, Ogawa K.:Hochuekkito, a Japanese Herbal Medicine, Restores Metabolic Homeostasis between Mitochondrial and Glycolytic Pathways Impaired by Influenza A Virus Infection. *Pharmacology.*;99(5-6):240-249. 2017.
  43. Sakamoto A, Kuroda Y, Kanzaki S, Matsuo K.:Dissection of the auditory bulla in Postnatal Mice: Isolation of the Middle Ear Bones and Histological Analysis. *Journal of Vis Exp.*;(119). (e-journal) 2017.
  44. Takanashi K, Dan K, Kanzaki S, Hasegawa H, Watanabe K, Ogawa K :The Preventive Effect of the Traditional Japanese Herbal Medicine, Hochuekkito, against Influenza A Virus via Autophagy in vitro. *Pharmacology.*;99(3-4):99-105. 2017.
  45. Kanzaki S(CA), Hashiguchi K, Wakabayashi KI, Suematsu K, Okubo K. :Histamine antagonist Bepotastine suppresses nasal symptoms caused by Japanese cedar and cypress pollen exposure. *Journal Drug Assessment* 2016 Sep 27;5(1):15-23. eCollection 2016.

46. Ingaki Y, Kanzaki S(CA), Inagaki Y, Fujioka M, Kanzaki S, Watanabe K, Oishi N, Itakura G, Yasuda A, Shibata S, Nakamura M, Okano HJ, Okano H, Ogawa K. Sustained Effect of Hyaluronic acid in subcutaneous administration to the cochlear spiral ganglion. PLoS One.;11(4):e0153957. 2016. Kitoh R, Moteki H, Nishio S, Shinden S, Kanzaki S, Iwasaki S, Ogawa K, Usami SI. :The effects of cochlear implantation in Japanese single-sided deafness patients: Five case reports. Acta Oto-Laryngologica.;136(5):460-4. 2016
47. Kanzaki S(CA), Watanabe K, Fujioka M, Shibata S, Nakamura M, Okano HJ, Okano H, Ogawa K.:Novel in vivo imaging analysis of an inner ear drug delivery system: Drug availability in inner ear following different dose of systemic drug injections. Hearing Research.142-146.2015;330: doi:10.1016/j.heares.2015. 09.018
48. Tsuchihashi NA, Hayashi K, Dan K, Goto F, Nomura Y, Fujioka M, Kanzaki S, Komune S, Ogawa K.: Autophagy through 4EBP1 and AMPK regulate oxidative stress-induced premature senescence in auditory cells. Oncotarget 28 6(6) :3644-45. 2015.
49. Watada Y, Yamashita D, Toyoda M, Tsuchiya K, Hida N, Tanimoto A, Ogawa K, Kanzaki S(CA), Umezawa A. :Magnetic resonance monitoring of superparamagnetic iron oxide (SPIO)-labeled stem cells transplanted into the inner ear. Neuroscience Research;95:21-6. 2015.
50. Hayashi K, Dan K, Goto F, Tsuchihashi N, Nomura Y, Fujioka M, Kanzaki S, Ogawa K. : The autophagy pathway maintained signaling cross talk with the Keap1-Nrf2 system through p62 in auditory cells under oxidative stress. Cellular Signalling 27(2):382-93. 2015.
51. Yamashita D, Sun Guang-wei, Yong Cui, Mita Shiro, Otsuki Naoki, Kanzaki S, Nibu Ken-ichi, Ogawa K, Matsunaga T, : Neuroprotective effects of cutamesine, a ligand of the sigma-1 receptor chaperone, against noise-induced hearing loss. Journal of Neuroscience Research;93(5):788-95.2015.
52. Kanzaki S(CA), Sakagami M, Hosoi H, Murakami S, Ogawa K. : High fibrinogen in peripheral blood correlates with poorer hearing recovery in idiopathic sudden sensorineural hearing loss. PLoS One. 28;9(8):e104680. 2014.
53. Kanzaki S(CA), Neuropharmacology Mini Review: Gene and Drug delivery system and potential treatment into inner ear for protection and regeneration. Frontiers in Pharmacology (eCollection) 2014.
54. Cayé-Thomasen P, Hermansson A, Bakaletz L, Hellstrøm S, Kanzaki S, Kerschner J, Lim D, Lin J, Mason K, Spratley J. : Panel 3: Recent advances in anatomy, pathology, and cell biology in relation to otitis media pathogenesis. Otolaryngology Head and Neck Surgery.;148(4 Suppl):E37-51. 2013.
55. Hashiguchi K, Kanzaki S, Wakabayashi K, Tanaka N, Kawashima K, Suematsu K, Tokunaga S, Ogawa K, Okubo K. : Efficacy of fluticasone furoate nasal spray and levocetirizine in patients with Japanese cedar pollinosis subjected to an artificial exposure chamber. Journal of Drug Assessment (2) 94-105 2013.
56. Wasano K, Kanzaki S, Sakashita T, Takahashi M, Inoue Y, Saito H, Fujioka M, Watabe T, Watanabe R, Sunami K, Kato S, Kabaya K, Shinden S, Ogawa K.:A psychometric validation of the Japanese versions of new questionnaires on tinnitus (THI-12, TRS, TRSw, TSS, and TSSw). Acta Otolaryngologica 133(5) 491-498. 2013.
57. Oishi N, Shinden S, Kanzaki S, Saito H, Inoue Y, Ogawa K.: Effects of tinnitus retraining therapy involving monaural noise generators, European archives of oto-rhino-laryngology 270(2) 443-448. 2013.
58. Kanzaki S(CA), Fujioka M, Yasuda A, Shibata S, Nakamura M, Okano H.J, Ogawa K, Okano H.:Novel in vivo imaging analysis of an inner ear drug delivery system in mice:

- comparison of inner ear drug concentrations over time after transtympanic and systemic injections. *PLoS One* 7: e48480, 2012.
59. Gotoh M, Okubo K, Hashiguchi K, Wakabayashi K, Kanzaki S, Tanaka N, Fujioka M, Kawashima K, Suematsu K, Sasaki K, Iwasaki M, Yamamotoya H.:Noninvasive biological evaluation of response to pranlukast treatment in pediatric patients with Japanese cedar pollinosis.*Allergy Asthma Proceedings*. 33(6):459-66. 2012.
  60. Sasaki K, Ohshiro T, Ohshiro T, Kanzaki S, Ogawa K.:Comparative Study Between Pre-Seasonal and Intra-Seasonal Treatment of Allergic Rhinitis Using a New 808NM Diode Laser System. *Laser Therapy* 30;21(3):209-14. 2012.
  61. Wakabayashi K, Hashiguchi K, Kanzaki S, Fujioka M, Tanaka N, Kawashima K, Suematsu K, Yamamotoya H, Iwasaki M, Gotoh M, Horibe S, Naito K, Okubo K.:Pranlukast dry syrup inhibits symptoms of Japanese cedar pollinosis in children using OHIO Chamber. *Allergy and Asthma Proceedings* 33: 102-109, 2012.(
  62. Masuda M, Kanzaki S, Minami S, Kikuchi J, Kanzaki J, Sato H, Ogawa K.:Correlations of inflammatory biomarkers with the onset and prognosis of idiopathic sudden sensorineural hearing loss. *Otology & Neurotology* 33: 1142-1150, 2012.(IF 2.063)
  63. Koike T, Sakamoto C, Sakashita T, Hayashi K, Kanzaki S, Ogawa K.:Effects of a perilymphatic fistula on the passive vibration response of the basilar membrane, *Hearing Research* 283: 117-125, 2012 (IF 3.693)
  64. Goto F, Saruta J, Kanzaki S, To M, Tsutsumi T, Tsukinoki K, Ogawa K.:Various levels of plasma brain-derived neurotrophic factor in patients with tinnitus. *Neuroscience Letters* 510: 73-77, 2012.
  65. Oishi N, Shinden S, Kanzaki S, Saito H, Inoue Y, Ogawa K.:Influence of depressive symptoms, state anxiety, and pure-tone thresholds on the tinnitus handicap inventory in Japan. *International Journal of Audiology* 50: 491-495, 2011.
  66. Minami S.B, Shinden S, Okamoto Y, Watada Y, Watabe T, Oishi N, Kanzaki S, Saito H, Inoue Y, Ogawa K.:Repetitive transcranial magnetic stimulation (rTMS) for treatment of chronic tinnitus. *Auris Nasus Larynx* 38: 301-306, 2011. (
  67. Kanzaki S, Takada Y, Niida S, Takeda Y, Udagawa N, Ogawa K, Nango N, Momose A, Matsuo K.:Impaired vibration of auditory ossicles in osteopetrotic mice. *The American Journal of Pathology* 178: 1.494-1278, 2011.
  68. Kanzaki S (CA), Saito H, Inoue Y, Ogawa K.:A new device for delivering drugs into the inner ear: Otoendoscope with microcatheter. *Auris Nasus Larynx* 2011.
  69. Kanzaki S (CA), Ogawa H, Ikeda M, Masuda T, Ogawa K.:Quality of life of Japanese seasonal allergic rhinitis patients is related to timing of pollen dispersal - multicenter analysis. *Acta Oto-laryngologica* 131: 290-297, 2011.
  70. Cui Y, Sun G.W, Yamashita D, Kanzaki S, Matsunaga T, Fujii M, Kaga K, Ogawa K.:Acoustic overstimulation-induced apoptosis in fibrocytes of the cochlear spiral limbus of mice. *European Archives of Oto-rhino-laryngology* 268: 973-978, 2011.
  71. Wakabayashi K, Fujioka M, Kanzaki S, Okano H.J, Shibata S, Yamashita D, Masuda M, Mihara M, Ohsugi Y, Ogawa K, Okano H.:Blockade of interleukin-6 signaling suppressed cochlear inflammatory response and improved hearing impairment in noise-damaged mice cochlea. *Neuroscience Research* 66: 345-352, 2010.
  72. Oishi N, Kanzaki S, Shinden S, Saito H, Inoue Y, Ogawa K.: Effects of selective serotonin reuptake inhibitor on treating tinnitus in patients stratified for presence of depression or anxiety. *Audiology & Neuro-otology* 15: 187-193, 2010.
  73. Oishi N, Inoue Y, Saito H, Kanzaki S, Kanzaki J, Ogawa K.:Long-term prognosis of low-frequency hearing 10-year outcome. *Otolaryngology-Head Neck Surgery* 142: 565-569, 2010.

74. Ide R, Harada T, Kanzaki S(CA), Saito H, Hoshikawa M, Kawahara T, Ogawa K.:Physical and physiological effects on otoacoustic emissions in hypobaric hypoxia, ORL; journal for oto-rhino-laryngology and its related specialties 72: 225-232, 2010.
75. Oishi N, Kanzaki S, Kataoka C, Tazoe M, Takei Y, Nagai K, Kohno N, Ogawa K.:Acute-onset unilateral psychogenic hearing loss in adults: report of six cases and diagnostic pitfalls, ORL; Journal for Oto-Rhino-Laryngology and its related Specialties 71: 279-283, 2009.
76. Kanzaki S, Takada Y, Ogawa K, Matsuo K.:Bisphosphonate therapy ameliorates hearing loss in mice lacking osteoprotegerin, Journal of bone and mineral research : 24: 43-49, 2009.
77. Kanzaki J, Kanzaki S(CA), Ogawa K.:Long-term prognosis of steroid-dependent sensorineural hearing loss, Audiology & neuro-otology 14: 26-34, 2009.
78. Nagasao T, Miyamoto J, Tamaki T, Kanzaki S, Ogawa K.:Inferior meatal antrostomy impairs dynamic stability of the orbital walls. Auris Nasus Larynx.; 36(4):431-437,2009.
79. Yamashita D, Shiotani A, Kanzaki S, Nakagawa M, Ogawa K.:Neuroprotective effects of T-817MA against noise-induced hearing loss. Neuroscience Research 61: 38-42, 2008.
80. Yamashita D, Minami S.B, Kanzaki S, Ogawa K, Miller J.M.:Bcl-2 genes regulate noise-induced hearing loss. Journal of Neuroscience Research 86: 920-928, 2008.
81. Ozawa H, Tomita T, Sakamoto K, Tagawa T, Fujii R, Kanzaki S, Ogawa K, Kameyama K, Fujii M.:Mucoepidermoid carcinoma of the head and neck: clinical analysis of 43 patients. Japanese Journal of Clinical Oncology 38: 414-418, 2008.
82. Masuda M, Tanaka K.F, Kanzaki S, Wakabayashi K, Oishi N, Suzuki T, Ikenaka K, Ogawa K.:GFAP aggregates in the cochlear nerve increase the noise vulnerability of sensory cells in the organ of Corti in the murine model of Alexander disease. Neuroscience Research 62: 15-24, 2008.
83. Kanzaki S(CA). Nameki H.:Standardised method of selecting surgical approaches to benign parapharyngeal space tumours, based on pre-operative images. Journal of Laryngology Otology 122: 628-634,2008.
84. Iizuka T, Kanzaki S, Mochizuki H, Inoshita A, Narui Y, Furukawa M, Kusunoki T, Saji M, Ogawa K, Ikeda K.:Noninvasive in vivo delivery of transgene via adeno-associated virus into supporting cells of the neonatal mouse cochlea. Human Gene Therapy 19: 384-390,2008.
85. Taniguchi Y, Ohshiro T, Fujii S, Ohshiro T, Sasaki K, Suzuki T, Kanzaki S, Ogawa K. Cost-effectiveness of Different Treatment Modalities for Seasonal Allergic Rhinitis in Japan-Comparison of Laser Treatment with Subcutaneous Immunotherapy and Oral Medication-. Laser Therapy 17 (4), 193-197,2008.
86. Masuda M, Inoue Y, Tanosaki R, Kanzaki S, Ogawa K.:Development of solitary plasmacytoma in the internal auditory canal and inner ear after allogeneic hematopoietic stem cell transplantation for plasma cell leukemia. Japanese Journal of Clinical Oncology 37: 701-703, 2007.
87. Kanzaki S(CA), Shiotani A, Inoue M, Hasegawa M, Ogawa K.:Sendai virus vector -mediated transgene expression in the cochlea in vivo. Audiology & Neuro-otology 12: 119-126, 2007.
88. Masuda M, Nagashima R, Kanzaki S, Fujioka M, Ogita K, Ogawa K.:Nuclear factor-kappa B nuclear translocation in the cochlea of mice following acoustic overstimulation. Brain Research 1068: 237-247, 2006.
89. Kanzaki S, Ito M, Takada Y, Ogawa K, Matsuo K.:Resorption of auditory ossicles and hearing loss in mice lacking osteoprotegerin. Bone 39: 414-419, 2006.
90. Kanzaki S, Beyer L.A, Swiderski D.L, Izumikawa M, Stover T, Kawamoto K, Raphael

- Y.:p27(Kip1) deficiency causes organ of Corti pathology and hearing loss. *Hearing Research* 214: 28-36, 2006.
91. Kanzaki S, Beyer L, Karolyi I.J, Dolan D.F, Fang Q, Probst F.J, Camper S.A, Raphael Y.:Transgene correction maintains normal cochlear structure and function in 6-month-old Myo15a mutant mice. *Hearing Research* 214: 37-44, 2006.
  92. Fujioka M, Kanzaki S, Okano H.J, Masuda M, Ogawa K, Okano H.:Proinflammatory cytokines expression in noise-induced damaged cochlea. *Journal of Neuroscience Research* 83: 575-583, 2006.
  93. Kawamoto K, Yagi M, Stover T, Kanzaki S, Raphael Y.:Hearing and hair cells are protected by adenoviral gene therapy with TGF-beta1 and GDNF, *Molecular therapy* : 7: 484-492, 2003.
  94. Ishimoto S, Kawamoto K, Stover T, Kanzaki S, Yamasoba T, Raphael Y.:A glucocorticoid reduces adverse effects of adenovirus vectors in the cochlea. *Audiology & Neuro-otology* 8: 70-79, 2003.
  95. Kanzaki S, Stover T, Kawamoto K, Prieskorn D.M, Altschuler R.A, Miller J.M, Raphael Y.:Glial cell line-derived neurotrophic factor and chronic electrical stimulation prevent VIII cranial nerve degeneration following denervation. *The Journal of Comparative Neurology* 454: 350-360, 2002.
  96. Kanzaki S, Ogawa K, Camper S.A, Raphael Y.:Transgene expression in neonatal mouse inner ear explants mediated by first and advanced generation adenovirus vectors. *Hearing Research* 169: 112-120, 2002.
  97. Kanzaki S, Kawamoto K, Oh S.H, Stover T, Suzuki M, Ishimoto S, Yagi M, Miller J.M, Lomax M.I, Raphael Y.:From gene identification to gene therapy. *Audiology & Neuro-otology* 7: 161-164, 2002.
  98. Kanzaki S, Beyer L.A, Canlon B, Meixner W.M, Raphael Y.:The cytoaud: a hair cell pathology in the waltzing Guinea pig. *Audiology & Neuro-otology* 7: 289-297, 2002.
  99. Ishimoto S, Kawamoto K, Kanzaki S, Raphael Y.:Gene transfer into supporting cells of the organ of Corti. *Hearing Research* 173: 187-197,
  100. Stover T, Kawamoto K, Kanzaki S, Raphael Y.:Feasibility of inner ear gene transfer after middle ear administration of an adenovirus vector. *Laryngo- Rhino- Otologie* 80: 431-435, 2001.
  101. Kawamoto K, Oh S.H, Kanzaki S, Brown N, Raphael Y.:The functional and structural outcome of inner ear gene transfer via the vestibular and cochlear fluids in mice. *Molecular Therapy* 4: 575-585, 2001.
  102. Kawamoto K, Kanzaki S, Yagi M, Stover T, Prieskorn D.M, Dolan D.F, Miller J.M, Raphael Y.:Gene-based therapy for inner ear disease. *Noise & Health* 3: 37-47, 2001.
  103. Yagi M, Kanzaki S, Kawamoto K, Shin B, Shah P.P, Magal E, Sheng J, Raphael Y.:Spiral ganglion neurons are protected from degeneration by GDNF gene therapy. *Journal of the Association for Research in Otolaryngology: Journal of the Association for Research in Otolaryngology* 1: 315-325, 2000.

### **Case report**

1. Hoshino A, Tsuzuki N, Kanzaki S: Association between multiple sclerosis and the symptoms of vertigo and facial nerve palsy. *Ear nose throat j* (in press)
2. Ishikawa Y, Hosoya M, Kanzaki S, Ogawa K:Delayed facial palsy after cochlear implantation caused by reactivation of Herpesvirus: A case report and review of the literature.*Auris nasus larynx* 49:880-884,2022,
3. Masaki K, Ueki S, Tanese K, Nagao G, Kanzaki S, Matsuki E, Irie H, Kabata H, Miyata J,

- Kawada I, Fukunaga K. Eosinophilic annular erythema showing eosinophil cytolytic ETosis successfully treated with benralizumab. *Asia Pacific Allergy*. 2021;11(3):e28. doi: 10.5415/apallergy.2021.11.e28. eCollection 2021.
4. Nishiyama Y, Nishiyama T, Kanzaki S(CA), Oishi N, Fujioka M, Yamada H, Ebisuno C, Kaiho M, Uwamino Y, Fukano H, Hoshino Y, Hasegawa N, Ogawa K. Three cases of otitis media caused by *Mycobacterium abscessus* subsp. *abscessus*: Importance of medical treatment and efficacy of surgery. *J Infect Chemother*. 2021:S1341-321X(21)00119-7. doi:10.1016/j.jiac.2021.04.012.
  5. Hosoya M, Kanzaki S(CA), Wakabayashi S, Ogawa K. Tympanoplasty for chondrodysplasia punctata: Case report. *Auris Nasus Larynx*. 2016.pii: S0385-8146(16)30339-X.
  6. Wasano K, Kanzaki S, Ogawa K. Bilateral congenital conductive hearing loss due to ossification of the stapedius tendon. *Otology & Neurotology*.2014;35(3):e119-20
  7. Wasano K, Saito H, Kanzaki S, Ogawa K. Keratinic amyloidosis of the external auditory canal. *Auris Nasus Larynx*. 2014; 41(1):97-100
  8. Kanzaki S (CA), Suzuki T, Suzuki S, Suzuki N, Ogawa K.:Sudden onset hearing loss and vertigo just before posterior inferior cerebellar artery infarction (lateral medulla syndrome). *Otology & Neurotology* 34: e6-7, 2013.
  9. Kanzaki S (CA), Saito H, Mori T, Shimasaki N, Mukai M, Ogawa K.:Thirteen-month-old boy with malignant lymphoma having symptoms mimicking acute otitis media and mastoiditis with facial palsy. *ORL; Journal for Oto-rhino-laryngology and its Related Specialties* 73: 266-270, 2011. (IF 1.080)
  10. Kanzaki S(CA), Araki Y, Okamoto Y, Kurita A, Ogawa K.:Cholesterol granuloma surrounding the endolymphatic sac. *Auris Nasus Larynx* 34: 95-100, 2007. (IF 1.436)
  11. Kanzaki S(CA), Sakamoto M.:Sinolith in the ethmoid sinus, *The Journal of Laryngology and otology* 120: e11, 2006.
  12. Kanzaki S(CA), Kunihiro T, Imanishi T, Yamashita D, Ogawa K.:Two cases of pulmonary embolism after head and neck surgery, *Auris Nasus Larynx* 31: 313-317, 2004.
  13. Kanzaki S(CA), Inoue Y, Watabe T, Ogawa K.:Hypertrophic chronic pachymeningitis associated with chronic otitis media and mastoiditis. *Auris Nasus Larynx* 31: 155-159, 2004.

## Review article

1. Kanzaki S, Ogawa K, Matsuo K. Regulation of osteoclasts is required to maintain morphology and function of ossicles in middle ear; clinical implication of cholesteatoma.143-146. cholesteatoma and Ear Surgery. Kulger 2016 (web)
2. Kanzaki S, Takada Y, Ogawa K, Matsuo K, Osteoclasts Regulate for Maintaining Morphology of Auditory Ossicles, *Proceedings of Middle Ear and Hearing. 9th International Cholesteatoma and Ear Surgery Meeting, 2012 Web*.
3. Kanzaki S, Takada Y, Ogawa K, Matsuo K, Osteoclasts Regulate for Maintaining Morphology of Auditory Ossicles, 88-90. *Middle Ear and Hearing 10th International Otitis media Meeting, 2011*.
4. Harashima T, Fujii M, Koike T, Aoki M, Homma K, Hato N, Kanzaki S, Assessment of an implanted bone- conduction hearing aid performance by experiments using human cadavers. *Proceedings of the 17th International Congress on Sound and Vibration, CD-ROM (2010)*
5. Koike T, Yamamoto K, Aoki M, Homma K, Hato N, Kanzaki S: Development of an implanted bone-conduction hearing aid using giant magnetostrictive material. *Proceedings of the 5th Symposium on Middle Ear Mechanics, Web 2009*.
6. Kanzaki S, Ogawa K, Bisphosphonate therapy ameliorates bone resorption and hearing loss in

mice lacking osteoprotegerin". 8th Cholesteatoma and Ear Surgery Meeting. 2009;66-69.Review

### **BOOK**

1. Kanzaki S,Tazoe M,Kataoka C,Kimizuka T. Tinnitus in Japan and psychological and cognitive behavior therapies. In:Cognitive Behavioral Therapy eds Martin, Preedy and Patel. 2021. Academic Press, Elsevier, Holland(in press).
2. Kanzaki S. Degeneration and regeneration in auditory system, 2006, 37-52, In: Degeneration and regeneration in neuron eds Yoneda Y. and Ogita K. Research Signpost, Kerala, India.
3. Kanzaki J, Kanzaki S. Curable sudden deafness. 2004. 282-286 In: Hearing impairment Springer, USA.

### **Symposium / Panel / Special lecture**

1. Kanzaki S. Koike T, Irie Y, Keat CS, Higo T, Shimizu Y, Hayashi M, Ikegami H. Symposium: Innovations in management of otitis media and cholesteatoma: Innovations in intraoperative measurement of ossicular chain mobility -Individual differences in the force applied to the ossicles during palpation and decision making- 61<sup>th</sup> Neurootological and Equilibrium Society (NES) 2024 (Budapest, Hungary) May.22.2024
2. Sakata H, Kanzaki S. Vestibular rehabilitation, 61<sup>th</sup> 61<sup>th</sup> Neurootological and Equilibrium Society (NES 2024) (Budapest, Hungary) May.22.2024
3. Kanzaki S Symposium. Vestibular rehabilitation, 61<sup>th</sup> Neurootological and Equilibrium Society (NES 2024) (Budapest, Hungary) May.22.2024
4. Kanzaki S. Koike T, Irie Y, Keat CS, Higo T, Shimizu Y, Hayashi M, Ikegami H. International Symposium Otolaryngology/Neurotology New Developments in Otolaryngology From Japan: TEES and Beyond (Kakehata S, Kanemaru S, Kanzaki S.) Individual differences in surgeons' procedures and judgements of ossicular conditions during palpation.( Tennessee, USA) AAO HNSF 2023 Oct.4,2023(9:15 AM – 10:15 AM).
5. Kanzaki S. Koike T, Irie Y, Keat CS, Higo T, Shimizu Y, Hayashi M, Ikegami H. Symposium: Innovations in management of otitis media and cholesteatoma: Innovations in intraoperative measurement of ossicular chain mobility -Individual differences in the force applied to the ossicles during palpation and decision making- 11<sup>th</sup> international Conference on Cholesteatoma and Ear Surgery (Chole 2023) (Shanghai, China) Oct.22.2023
6. Kanzaki S. Symposium 12 : Tinnitus suppression after cochlear implant (CI) ; Japanese experience. (Chairman Kanzaki S, and Song JJ.) APSCI 2023 Seoul Korea 11.10.
7. Kanzaki S, (Seminar) Prognostic Factors (SNPs) of Tinnitus Patients and Its Treatment. Collegium (CORLAS) meeting. Aug 30.2023
8. Kanzaki S, (Special lecture) How effect is educational counseling prior to middle ear surgery for patients with both middle ear diseases and consistent tinnitus? 7th East Asian Symposium in Otolaryngology. Mar 25. 2022.
9. Kanzaki S, (Special Program 13 ) Session: Sensorineural Hearing Loss and Tinnitus) : How effect is counseling prior to surgery for both middle ear diseases and tinnitus?. 7th East Asian Symposium on Otolaryngology March 26 2022. Tokyo Japan.
10. Kanzaki S, (Symposium 6) Session: Problems of tinnitus research. SNP and tinnitus.18th Japan-Korea Joint Meeting of Otorhinolaryngology - Head and Neck Surgery (JKJM2022) Apr.8 2022.
11. Kanzaki S, International session Otolaryngologic Surgical Innovation in Japan. American Academy of Otorhinolaryngology Head and neck surgery 2021. Online

12. Kanzaki S, (Symposium) “Tinnitus in cochlear implant” 12th Asia Pacific Symposium on Cochlear Implants and Related Sciences (APSCI2019) Nov 30. 2019.Tokyo
13. Kanzaki S, Assessment of sound transmission efficiency of middle ear based on direct excitation of ossicles by vibration probe Collegium meeting. Aug 26.2019. Bern, Switzerland.
14. Kanzaki S, (Symposium) Drug delivery system of inner ear “Comparison of inner ear drug availability of combined treatment with systemic or local drug injections alone.” 46th Congress of the International Neurootological & Equilibriometric Society. May 30. 2019. Tokyo Japan
15. Kanzaki S, High fibrinogen in blood correlates with poorer hearing recovery in Idiopathic sudden sensorineural hearing loss Sep 17. Collegium meeting. Aug. 2018 Beijing China
16. Kanzaki S, (Instruction Course) Systematic review of idiopathic sudden sensorineural hearing loss and pharmacokinetics. the European Academy of Otolology and Neurotology instructional workshop and consensus in hearing implant. Copenhagen Denmark June 21. 2018.
17. Kanzaki S, Japan session Symposium Regulation of osteoclasts is required to maintain morphology and function of ossicles in middle ear; clinical implication of cholestatoma. 10th Cholesteatoma and Ear Surgery Meeting 2016\_
18. Kanzaki S, Temporal bone dissection (Anspack) instructor (Sydney, Australia) Dec. 2014.
19. Kanzaki S, (Panel session-8. Neural & Neuroepithelial regeneration (Intracochlear drug delivery systems Moderator: Thomas van de Water) ‘Drug and Gene Delivery into Inner Ear for Neural and Neuroepithelial cells.’ 2013.
20. Kanzaki S, (Panel) Japan experience “Endoscopic diagnosis and treatment of perilymphatic fistula”, IV international workshop on Endoscopic Ear Surgery, Modena Italy, 2012.11
21. Kanzaki S, (Symposium) Bone resorption, Cholesteatoma Meeting 2012, Nagasaki Japan 2012.6
22. Kanzaki S. Yamashita D, Ogawa K; (Symposium) Bone marrow stem cells therapy for cochlear hair cell and auditory neuron “Regeneration of Sensory Cells in the Inner Ear. From Bench to Bedside-“. (oral) 31<sup>st</sup> Annual Meeting Japan Neuroscience Society , Tokyo, Japan, 2008.7
23. Kanzaki S, Ogawa K, Matsuo K; (Symposium) Laser therapy in ENT, Motion of tympanic ossicles in mice model measured by a laser doppler vibrometer. Laser Tokyo 2009 Meeting, Tokyo, Japan, 2009.12
24. Kanzaki S; (Special lecture) Preventing auditory bone resorption & gene and cell therapy. seminar in Massachusetts Eye and Ear Infirmary Department of Otolaryngology, Harvard University (Boston, USA) 2007.9 (invited speaker)
25. I have experienced three times of chairperson and five Japanese meeting symposium.

### **Others**

74 English presentations of international meeting.

73 Japanese publications

### **Patents**

I have 22 domestic and international Patents including device monitoring ossicular mobility, bone anchored hearing aid, and aroma device.