

## CURRICULUM VITAE

Name	Current position	Start date
Tatsuya Yamasoba	Professor and Chairman, Department of Otolaryngology and Head and Neck Surgery, University of Tokyo	04/01/07

Date	Subject	Awarding body
05/30/83	MD	Ministry of Health, Labour and Welfare, Japan
10/21/92	PhD	Faculty of Medicine, University of Tokyo, Japan
14/08/09		Top 100 World's Best Health Professionals

### Previous Appointments

Dates	Appointment
06/01/83-03/31/85	Resident, Department of Otolaryngology, University of Tokyo
04/01/85-03/31/86	Resident, Department of Otolaryngology, Takeda General Hospital
04/01/86-03/31/88	Chief Resident, Department of Otolaryngology, Hitachi General Hospital
04/01/88-12/31/90	Lecturer, Department of Otolaryngology, University of Tokyo
01/01/91-06/30/93	Head, Division of Otolaryngology, Kameda General Hospital
07/01/93-08/31/99	Assistant Professor, Department of Otolaryngology, University of Tokyo
02/01/96-05/31/98	Research Fellow, Kresge Hearing Research Institute, University of Michigan
09/01/99-03/31/07	Associate Professor, Department of Otolaryngology, University of Tokyo

### Professional Society Responsibilities

#### Committee Member

The Oto-Rhino-Laryngological Society of Japan, Board director  
 Japan Audiological Society, Board member  
 Japan Society for Equilibrium Research, Board member  
 Otological Society of Japan, Board member  
 Japanese Society of Anti-aging Medicine, Board member  
 Japan Rhinologic Society  
 Japan Society for Head and Neck Surgery, Board member  
 The Society of Practical Otolaryngology, Board member  
 Japan Society of Facial Nerve Research  
 The Japan Society of Logopedics and Phoniatics, Board member  
 Japan society of Immunology & Allergology in Otolaryngology  
 The Japan Laryngological Association  
 Japan Society for pediatric ORL, Board member

#### International Society Member

Asia-Oceania ORL-HNS, Board member  
 Asia Pacific Symposium on Cochlear Implants and Related Sciences, Board member  
 Collegium ORLAS  
 Barany Society  
 Association for Research in Otolaryngology  
 International Biographical Centre, Cambridge

### Editorial Boards

#### International

Editor-in Chief, Auris Nasus Larynx (07/01/08-06/30/10)  
 Associate editor, ORL J Otorhinolaryngol Relat Spec (07/10/07-)  
 Associate editor, npj Aging and Mechanisms of Disease (01/01/15-)  
 Editorial board member, Audiology and Neurotology (05/01/01-)  
 Editorial board member, Laryngoscope investigative otolaryngology (01/01/16-)

## **Summary of researches in most recent years**

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### 1) Introduction of hair cell regeneration in the mammalian cochlea

We demonstrated that albeit limited, the Deiters cells could maintain a competence to re-enter the cell cycle and proliferate after hair cell injury. By inhibiting p27 using adenovirus vectors encoding p27 siRNA, we observed marked proliferation of cochlear supporting cells, some of which were transdifferentiated to hair-cell-like cells with stereocilia on their apical surface.

### 2) Establishment of the strategy to prevent/retard age-related hearing loss (AHL)

By examining the gene expression profile in the cochlea of C57BL/6 and DBA/2J mice, we found that AHL was associated with suppression of hearing-related genes, decreased energy metabolism, and induction of apoptosis-related genes, some of which mediated p53-dependent apoptosis. AHL in these models was also characterized by suppression of neurotransmission, ion transport, DNA synthesis/repair, protein synthesis, and induction of stress response, inflammatory response, and proteolysis. Next, we examined the role of accumulation of mitochondrial DNA (mtDNA) mutations in the development of AHL using Polg<sup>D257A</sup> knock-in mouse, which exhibited increased spontaneous mtDNA mutation rates during aging and showed accelerated aging primarily due to increased apoptosis. This mouse exhibited moderate hearing loss and degeneration of the hair cells, spiral ganglion cells and stria vascularis by 9 month of age. Finally, we demonstrated that calorie restriction could prevent manifestation of AHL and age-related changes of gene expression profile in C57BL/6 mouse cochlea.

### 3) Novel protein therapeutics for inner ear disorder

We constructed a powerful artificial cytoprotective protein, FNK, from an antiapoptotic member of the BCL-2 family, Bcl-x(L). To test the efficacy of FNK in protecting cochlear hair cells from aminoglycoside-induced cell death in vivo, we fused FNK with protein transduction domain, TAT, of the HIV/Tat protein. We demonstrated that, after an intraperitoneal administration to guinea pigs, TAT-myc-FNK protein was diffusely distributed in the cochlea, most prominently in the hair cells and supporting cells, followed by the spiral ganglion cells. We also demonstrated that TAT-FNK attenuated hearing loss and apoptosis of the hair cells induced by an ototoxic combination of kanamycin sulfate and ethacrynic acid. These findings suggest that this protein can be used as a therapeutic compound for inner ear disorders.

## **Representative Grants (PI)**

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### **• From the Ministry of Education, Culture, Sports, Science and Technology, Japan**

- 1) Investigation of the mechanism of hearing impairment induced by mitochondrial DNA abnormalities (1999.4-2002.3)
- 2) Study of the cellular event of hair cell apoptosis using cochlear explants (1999.4-2001.3)
- 3) Introduction of hair cell regeneration in the mammalian cochlea (2001.4-2004.3)
- 4) Analysis of genes/proteins associated with cochlear damage (2004.4-2007.3)
- 5) Protein therapy to the inner ear (a novel treatment for inner ear disorders using an anti-apoptotic protein fused with protein transduction domain) (2005.4-2007.3)
- 6) Induction of hair cell regeneration using adenovirus vectors encoding Atoh1 and p27siRNA (2007.4-2009.3)
- 7) Study of the mechanisms of age-related hearing loss to establish the strategy for its prevention (2008.4-2011.3)
- 8) Genetic and environmental factors associated with the development of age-related hearing loss (2011.4-2014.3)
- 9) Novel treatment for deafness associated with mitochondrial DNA abnormality (2014.4-2016.3)
- 10) Elucidation of mechanisms of the development of auditory and balance disorders associated

with aging and establishment of the treatment strategy against them (2014.4-2017.3)

▪ **From the Ministry of Health, Labour and Welfare, Japan**

- 1) Gene transfer into the inner ear tissues (2000.4-2003.3)
- 2) Establishment of the strategy to treat sensorineural hearing loss (2003.4-2006.3)
- 3) Study to establish the evidence of the development of hearing and speech in Japanese pediatric populations with cochlear implants (2008.4-2011.3)
- 4) Study to set guideline for the candidacy of electric and acoustic stimulation in Japan (20011.4-2014.3)
- 5) Development of a new methods of speech perception evaluation and auditory-based cognitive training for the elderly (2014.4-2017.3)

## **Publications**

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### **1) Peer-reviewed article**

1. Yamasoba T, Harada T, Nomura Y: Observations of the anterior epitympanic recess in the human temporal bone. *Archives of Otolaryngology-Head and Neck Surgery* 116:566-570, 1990.
2. Yamasoba T, Tayama N, Shoji M, Fukuta M: Clinicostatistical study of lower lip mucoceles. *Head and Neck Surgery* 12:316-320, 1990.
3. Yamasoba T, Okuno T, Harada T, Nomura Y: Osteoma of the middle ear. Report of a case. *Archives of Otolaryngology-Head and Neck Surgery* 116:1214-1216, 1990.
4. Harada T, Yamasoba T, Sugasawa M: Experimental study on cochlear damage induced by an endotoxin-like substance. *Otology Japan* 1:22-27, 1991.
5. Harada T, Yamasoba T, Yagi M: Sensorineural hearing loss associated with otitis media with effusion. *ORL J Otorhinolaryngol Relat Spec* 54:61-65, 1992.
6. Mizuno M, Yamasoba T, Nomura Y: Vestibular disturbance after myelography. Contrast media in the internal auditory canal. *ORL J Otorhinolaryngol Relat Spec* 54:113-115, 1992.
7. O'Uchi T, Tokumaru A, Mikami I, Yamasoba T, Kikuchi S: Value of MR imaging in detecting a peanut causing bronchial obstruction. *American Journal of Roentgenology* 159: 481-482, 1992.
8. Yamasoba T, Kikuchi S, Higo R, O'Uchi T, Tokumaru A: Sudden sensorineural hearing loss associated with slow blood flow of the vertebrobasilar system. *Annals of Otology, Rhinology and Laryngology* 102:873-877, 1993.
9. Yamasoba T, Kikuchi S, Higo R, Kaga K, O'Uchi T, Tokumaru A: Ischemic brain lesions in aged patients with dizziness. *Archives of Otolaryngology-Head and Neck Surgery* 119:1346-1350, 1993.
10. Yamasoba T, Sugasawa M, Kikuchi S, Yagi M, Harada T: An electrocochleographic study of acute low-tone sensorineural hearing loss. *European Archives of Oto-Rhino-Laryngology* 250:418-422, 1993.
11. Yamasoba T, Kikuchi S: Is an isthmus block a prerequisite for the development of an attic retraction cholesteatoma? *European Archives of Oto-Rhino-Laryngology* 250:300-303, 1993.
12. Yamasoba T, Kikuchi S: Intracranial complications resulting from frontal pyocele: case presentation and review of experience in Japan. *Head and Neck Surgery* 15:450-454, 1993.
13. Kikuchi S, Kaga K, Yamasoba T, Higo R, O'Uchi T, Tokumaru A: Slow blood flow of the vertebrobasilar system in patients with dizziness and vertigo. *Acta Oto-Laryngologica (Stockholm)* 113:257-260, 1993.
14. Kikuchi S, Yamasoba T, Harada T, Kitamura K, Sasaki T: Congenital cholesteatoma of the petrous pyramid. *ORL J Otorhinolaryngol Relat Spec* 55:236-239, 1993.

15. Kikuchi S, Yamasoba T, Iinuma T: An analysis of bone destruction in cholesteatomas by high resolution computed tomography. *Auris Nasus Larynx* 20:11-17, 1993.
16. Higo R, Yamasoba T, Kikuchi S: Nasal neurinoma: case report and review of literature. *Auris Nasus Larynx* 20:297-301, 1993.
17. Yamasoba T, Kikuchi S, Sugasawa M, Yagi M, Harada T: Acute low tone sensorineural hearing loss without vertigo. *Archives of Otolaryngology-Head and Neck Surgery* 120:532-535, 1994.
18. Yamasoba T, Kikuchi S, Higo R: Transient positioning of a silicone T-tube in frontal sinus surgery. *Otolaryngology - Head and Neck Surgery* 111:776-780, 1994.
19. Yamasoba T, Kikuchi S, Sugasawa M, Higo R, Sasaki T: Occult follicular carcinoma metastasizing to the sinonasal tract. *ORL J Otorhinolaryngol Relat Spec* 56:239-243, 1994.
20. Yagi M, Harada T, Yamasoba T, Kikuchi S: Clinical features of idiopathic bilateral sensorineural hearing loss. *ORL J Otorhinolaryngol Relat Spec* 56:5-10, 1994.
21. Kikuchi S, Ushijima T, Yamasoba T, Higo R, Suzaki H: Biochemical analysis and magnetic resonance intensity of paranasal sinus mucocoeles. *American Journal of Rhinology* 8:344-345, 1994.
22. Yamasoba T, Kikuchi S, O'uchi T, Tokumaru A, Sugimura H, Kaga K: Magnetic resonance angiographic findings in vertiginous patients having slow vertebrobasilar blood flow. *Acta Oto-Laryngologica (Stockholm) Suppl.*520:153-156, 1995.
23. Kikuchi S, Kaga K, Yamasoba T, O'Uchi T, Tokumaru A: Apogeotropic type of direction-changing positional nystagmus related to slow vertebrobasilar blood flow. *Acta Oto-Laryngologica (Stockholm) Suppl.*520:350-353, 1995.
24. Yamasoba T, Suzuki M, Kaga K: Influence of chronic kanamycin administration on basement membrane anionic sites in the labyrinth. *Hearing Research* 102:116-124, 1996.
25. Yamasoba T, Oka Y, Tsukuda K, Nakamura M, Kaga K: Auditory findings in patients with maternally inherited diabetes and deafness harboring a point mutation in the mitochondrial transfer RNA<sup>Leu</sup>(UUR) Gene. *The Laryngoscope* 106:49-53, 1996.
26. Yamasoba T, Kurita H, Ito K, Mizuno M, Nakamura M, Sugasawa M, Sugasawa K, Sasaki T: Auditory findings after stereotactic radiosurgery in acoustic neurinoma. *Skull Base Surgery* 6:163-167, 1996.
27. Yamasoba T, Sugimura H: Nasolacrimal drainage system cysts in an adult. *ORL J Otorhinolaryngol Relat Spec* 58:311-314, 1996.
28. Inoue K, Takai D, Soejima A, Isobe K, Yamasoba T, Oka Y, Goto Y, Hayashi J: Mutant mtDNA at 1555 A to G in 12S rRNA gene and hypersusceptibility of mitochondrial translation to streptomycin can be co-transferred to rho 0 HeLa cells. *Biochemical and Biophysical Research Communications* 223:496-501, 1996.
29. Yamasoba T, Sakai K, Sakurai M: Role of acute cochlear neuritis in sudden hearing loss in multiple sclerosis. *Journal of the Neurological Sciences* 146:179-181, 1997.
30. Yamasoba T, Dolan DF: Chronic strychnine perfusion into the cochlea potentiates permanent threshold shifts following noise exposure. *Hearing Research* 112:13-20, 1997.
31. Nakamura M, Yamasoba T, Kaga K: Changes in otoacoustic emissions in patients with idiopathic sudden deafness. *Audiology* 36:121-135, 1997.
32. Yamasoba T, Nuttall AL, Harris C, Raphael Y, Miller JM: Role of glutathione in protection against noise-induced hearing loss. *Brain Research* 784:82-90, 1998.
33. Yamasoba T, Harris C, Shoji F, Lee RJ, Nuttall AL, Miller JM: Influence of intense sound exposure on glutathione synthesis in the cochlea. *Brain Research* 804:72-78, 1998.
34. Yamasoba T, Dolan DF: The medial cochlear efferent system does not appear to contribute to the development of acquired resistance to acoustic trauma. *Hearing Research* 120:143-151, 1998.
35. Suzuki M, Yamasoba T, Kaga K: Development of the blood-labyrinth barrier in the rat. *Hearing Research* 116:107-112, 1998.

36. Suzuki M, Yamasoba T, Kaga K: Effect of chronic administration of kanamycin on the basement membrane anionic sites in the crista ampullaris of guinea pigs. *The Laryngoscope* 108:81-86, 1998.
37. Shinogami M, Yamasoba T, Sasaki T: Bilateral isolated metastases of malignant melanoma to the cerebellopontine angle. *Otolaryngology- Head and Neck Surgery* 118:276-279, 1998.
38. Kondo K, Yamasoba T, Suzuki I: Internal auditory canal inflammation: a cause for sudden vertigo. *Otolaryngology - Head and Neck Surgery* 119:138-140, 1998.
39. Nakatsuka T, Harii K, Yamada A, Yonehara Y, Takato T, Kawahara N, Sasaki T, Yamasoba T, Nibu K, Ebihara S: Immediate free flap reconstruction for head and neck pediatric malignancies. *Annals of Plastic Surgery* 40:594-599, 1998.
40. Yamasoba T, Yagi M, Roessler BJ, Miller JM, Raphael Y: Inner ear transgene expression after adenoviral vector inoculation in the endolymphatic sac. *Human Gene Therapy* 10:769-774, 1999.
41. Yamasoba T, Tsukuda K, Oka Y, Kobayashi T, Kaga K: Cochlear histopathology associated with mitochondrial transfer RNA<sup>Leu(UUR)</sup> gene mutation. *Neurology* 52:1705-1707, 1999.
42. Yamasoba T, Schacht J, Shoji F, Miller JM: Attenuation of cochlear damage from noise trauma by an iron chelator, a free radical scavenger and glial cell line-derived neurotrophic factor in vivo. *Brain Research* 815:317-325, 1999.
43. Yamasoba T, Dolan DF, Miller JM: Acquired resistance to acoustic trauma by sound conditioning is primarily mediated by changes restricted to the cochlea, not by systematic responses. *Hearing Research* 127:31-40, 1999.
44. Sakamoto T, Yamasoba T, Suzuki I: Meningoencephalic herniation into the middle ear. *Annals of Otolaryngology Rhinology and Laryngology* 108:1012-1015, 1999.
45. Dolan DF, Yamasoba T, Leonova E, Beyer LA, Raphael Y: Morphological and physiological effects of long duration infusion of strychnine into the organ of Corti. *Journal of Neurocytology* 28:197-206, 1999.
46. Asano T, Tsukuda K, Katagiri H, Onishi Y, Sakoda H, Ono H, Ogihara T, Funaki M, Anai M, Inukai K, Fujishiro M, Fukushima Y, Yamasoba T, Oka T, Kikuchi M, Oka Y: Clinical relevance of heteroplasmic concentration of mitochondrial A3243G mutation in leucocytes. *Diabetologia* 42:1439-1440, 1999.
47. Ohinata Y, Yamasoba T, Schacht J, Miller JM: Glutathione limits noise-induced hearing loss. *Hearing Research* 146:28-34, 2000.
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49. Shoji F, Miller AL, Mitchell A, Yamasoba T, Altschuler RA, Miller JM: Differential protective effects of neurotrophins in the attenuation of noise-induced hair cell loss. *Hearing Research* 146:134-142, 2000.
50. Yamasoba T, Raphael Y, Altschuler RA, Miller AL, Shoji F, Miller JM: Absence of hair cell protection by exogenous FGF-1 and FGF-2 delivered to guinea pig cochlea in vivo. *Noise and Health* 11:65-78, 2001.
51. Yamasoba T, Kikuchi S, Higo R: Deafness associated with vertebrobasilar insufficiency. *Journal of the Neurological Sciences* 187:69-75, 2001.
52. Suzuki M, Yamasoba T, Kondo K, Kaga K: Transfection of young guinea pig vestibular cells in vitro with an adenovirus vector. *Neuroreport* 12:4013-4017, 2001.
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54. Yamasoba T, Suzuki M, Kondo K: Transgene expression in mature guinea pig cochlear cells in vitro. *Neuroscience Letters* 335:13-16, 2002.
55. Suzuki M, Yamasoba T, Ishibashi T, Miller JM, Kaga K: Effect of noise exposure on blood-labyrinth barrier in guinea pigs. *Hearing Research* 164:12-18, 2002.

56. Yamasoba T, Kondo K, Miyajima C, Suzuki M: Changes in cell proliferation in rat and guinea pig cochlea after aminoglycoside-induced damage. *Neuroscience Letters* 347:171-174, 2003.
57. Yamasoba T, Amagai N, Karino S: Traumatic luxation of the stapes into the vestibule. *Otolaryngology -Head and Neck Surgery* 129:287-290, 2003.
58. Suzuki M, Yamasoba T, Suzukawa K, Kaga K: Adenoviral vector gene delivery via the round window membrane in guinea pigs. *Neuroreport* 14:1951-1955, 2003.
59. Pourbakht A, Yamasoba T: Cochlear damage caused by continuous and intermittent noise exposure. *Hearing Research* 178:70-78, 2003.
60. Pourbakht A, Yamasoba T: Ebselen attenuates cochlear damage caused by acoustic trauma. *Hearing Research* 181:100-108, 2003.
61. Ishimoto S, Kawamoto K, Stover T, Kanzaki S, Yamasoba T, Raphael Y: A glucocorticoid reduces adverse effects of adenovirus vectors in the cochlea. *Audiology and Neurotology* 8:70-79, 2003.
62. Ishimoto S, Ito K, Shinogami M, Yamasoba T, Kaga K: Use of cartilage plate as tympanic membrane in total middle ear reconstructive surgery for infected radicalized ear. *Otology and Neurotology* 24:2-5, 2003.
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65. Yamasoba T, Tsukuda K: Ototoxicity after use of neomycin eardrops is unrelated to A1555G point mutation in mitochondrial DNA. *Journal of Otology and Laryngology* 118:546-550, 2004.
66. Ito K, Momose T, Oku S, Ishimoto S, Yamasoba T, Sugasawa M, Kaga K: Cortical activation shortly after cochlear implantation. *Audiology and Neurotology* 9:282-293, 2004.
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69. Sakamoto T, Kondo K, Yamasoba T, Suzuki M, Sugasawa M, Kaga K: Overexpression of ErbB-2 protein in human middle ear cholesteatomas. *The Laryngoscope* 114:1988-1991, 2004.
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73. Karino S, Yamasoba T, Ito K, Kaga K: Alteration of frequency range for binaural beats in acute low-tone hearing loss. *Audiology and Neurotology* 10:201-208, 2005.
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- Otolaryngology-Head and Neck Surgery 131:326-329, 2005.
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  77. Sakamoto T, Uozaki H, Kondo K, Imauchi Y, Yamasoba T, Sugasawa M, Kaga K: Cyclooxygenase-2 regulates the degree of apoptosis by modulating bcl-2 protein in pleomorphic adenoma and mucoepidermoid carcinoma of the parotid gland. *Acta Oto-Laryngologica (Stockholm)* 125:191-195, 2005.
  78. Imauchi Y, Karino S, Yamasoba T: Acquired atrophy of the long process of incus. *Otolaryngology - Head and Neck Surgery* 132:156-158, 2005.
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  80. Yamasoba T, Kondo K: Supporting cell proliferation after hair cell injury in mature guinea pig cochlea in vivo. *Cell and Tissue Research* 325: 23-31, 2006.
  81. Yamasoba T, Goto Y, Komaki H, Mimaki M, Sudo A, Suzuki M: Cochlear damage due to germanium-induced mitochondrial dysfunction in guinea pigs. *Neuroscience Letters* 395:18-22, 2006.
  82. Hagisawa M, Yamasoba T, Ohashi K, Ishida T: A case of middle-ear myoepithelioma. *Otolaryngology - Head and Neck Surgery* 135:967-968, 2006.
  83. Sano M, Ito K, Kaga K, Yamasoba T. Influence of chronic middle ear diseases on gustatory function. An electrogustometric study. *Otology and Neurotology* 28:44-47, 2007.
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  86. Sasaki T, Xu A, Ishimoto S, Ito K, Yamasoba T, Kaga K: Results of hearing tests after total middle ear reconstruction. *Acta Oto-Laryngologica (Stockholm)* 127:474-479, 2007.
  87. Ishimoto S, Ito K, Karino S, Takegoshi H, Kaga K, Yamasoba T: Hearing levels in patients with microtia: correlation with temporal bone malformation. *The Laryngoscope* 117:461-465, 2007.
  88. Yoshida M, Karino S, Yamasoba T: Aberrant internal carotid artery protruding through a tympanic membrane perforation. *Otolaryngology - Head and Neck Surgery* 136:679-680, 2007.
  89. Kashio A, Suzukawa K, Sakamoto T, Asoh S, Ohta S, Yamasoba T: A protein derived from the fusion of TAT peptide and FNK, a BCL-XL derivative, prevents cochlear hair cell death from aminoglycoside ototoxicity in vivo. *Journal of Neuroscience Research* 85:1403-1412, 2007.
  90. Watanabe K, Kondo K, Takeuchi N, Okano H, Yamasoba T: Musashi-1 expression in postnatal mouse olfactory epithelium. *Neuroreport* 18:641-644, 2007.
  91. Suzukawa K, Karino S, Yamasoba T: Surgical treatment of medial meatal fibrosis. Report of four cases. *Auris Nasus Larynx* 34:365-368, 2007.
  92. Mizuochi T, Yumoto M, Karino S, Itoh K, Yamasoba T: Latency variation of auditory N1m responses to vocal and nonvocal sounds. *Neuroreport* 18:1945-1949, 2007.
  93. Someya S, Yamasoba T, Prolla TA, Tanokura M: Genes encoding mitochondrial respiratory chain components are profoundly down-regulated with aging in the cochlea of DBA/2J mice. *Brain Research* 1182:26-33, 2007
  94. Yamasoba T, Tsukuda K, Suzuki M: Isolated hearing loss associated with T7511C mutation in mitochondrial DNA. *Acta Oto-Laryngologica (Stockholm)* 117 (Suppl559):13-18, 2007.
  95. Miyajima C, Ishimoto S, Yamasoba T: Otosclerosis associated with Ehlers-Danlos syndrome: report of a case. *Acta Oto-Laryngologica (Stockholm)* 117(Supple 559):157-159, 2007.

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100. Yasui T, Yamasoba T: Acute sensorineural hearing loss associated with aortitis syndrome. *Acta Oto-Laryngologica (Stockholm)* 117(Supple 559): 29-33, 2007.
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102. Ito K, Ishida R, Karino S, Yamasoba T. Rotating computed tomographic movie for evaluating partially ossified cochlea. *Otology and Neurotology* 29:124-130, 2008.
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