

Scala Tympani

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Recent Publications on Scala Tympani:

- [Induction of cytomegalovirus-infected labyrinthitis in newborn mice by lipopolysaccharide: a model for hearing loss in congenital CMV infection.](#)
*Congenital cytomegalovirus (CMV) infection is the most common infectious...*22nd August, 2008
Department of Pathology, Hamamatsu University School of Medicine,- Lab Invest. 2008 Jul;88(7):722-30. Epub 2008 May 12. ([DOI Direct Link](#))
- [Optical coherence tomography of the cochlea in the porcine model.](#)
*OBJECTIVES/HYPOTHESIS: To demonstrate the feasibility of optical coherence...*21st August, 2008
Beckman Laser Institute and Medical Clinic, University of- Laryngoscope. 2008 Aug;118(8):1449-51. ([DOI Direct Link](#))
- [Role of Electrode Placement as a Contributor to Variability in Cochlear Implant Outcomes.](#)
*HYPOTHESIS:: Suboptimal cochlear implant (CI) electrode array placement...*1st August, 2008
*Departments of Otolaryngology-Head and Neck Surgery and Biomedical- Otol Neurotol. 2008 Jul 28. ([DOI Direct Link](#))
- [Preliminary results in cochlear implant surgery without antromastoidectomy and with atraumatic electrode insertion: the endomeatal approach.](#)
*A surgical approach using the external auditory canal and the round window...*19th July, 2008
Ent Clinic,- Eur Arch Otorhinolaryngol. 2008 Jul 18. ([DOI Direct Link](#))
- [Tumor necrosis factor alpha can induce recruitment of inflammatory cells to the cochlea.](#)
*HYPOTHESIS: Leukocyte recruitment to the cochlea can be induced by tumor...*19th July, 2008
Veterans Affairs Medical Center, La Jolla, California, USA.- Otol Neurotol. 2008 Sep;29(6):854-9. ([DOI Direct Link](#))
- [High concentrations of thiosulfate in scala tympani perilymph after systemic administration in the guinea pig.](#)
*Conclusion. High concentrations of the antioxidant thiosulfate reach scala...*9th July, 2008
Department of Oncology-Pathology, Karolinska Institutet, Stockholm,- Acta Otolaryngol. 2008 Jun 13:1-6. ([DOI Direct Link](#))
- [Perilymph Osmolality Modulates Cochlear Function.](#)
*OBJECTIVES/HYPOTHESIS:: The cochlear amplifier is required for the...*9th July, 2008
From the The Bobby R. Alford Department of Otolaryngology-Head and Neck- Laryngoscope. 2008 Jul 3. ([DOI Direct Link](#))
- [The round window membrane in otitis media: effect of pneumococcal proteins.](#)
*OBJECTIVE: To determine whether mutants of Streptococcus pneumoniae that...*8th July, 2008
Department of Otolaryngology, University of Minnesota Medical School,- Arch Otolaryngol Head Neck

- Surg. 2008 Jun;134(6):658-62. ([DOI Direct Link](#))
- [Noninvasive in vivo delivery of transgene via adeno-associated virus into supporting cells of the neonatal mouse cochlea.](#)
*There are a number of genetic diseases that affect the cochlea early in...*2nd July, 2008
 Department of Otorhinolaryngology, Juntendo University School of Medicine,- Hum Gene Ther. 2008 Apr;19(4):384-90. ([DOI Direct Link](#))
 - [Stem cell transplantation for auditory nerve replacement.](#)
*The successful function of cochlear prostheses depends on activation of...*1st July, 2008
 Kresge Hearing Research Institute, Department of Otolaryngology,- Hear Res. 2008 Aug;242(1-2):110-116. Epub 2008 Jun 13. ([DOI Direct Link](#))
 - [Efficient transfer of embryonic stem cells into the cochlea via a non-invasive vestibular route.](#)
*CONCLUSION: Cell transplantation into the utricle provides an efficient...*24th June, 2008
 Department of Otolaryngology, University of Heidelberg Medical Center,- Acta Otolaryngol. 2008 Jul;128(7):720-3. ([DOI Direct Link](#))
 - [HOX-GFP and WOX-GFP lentivirus vectors for inner ear gene transfer.](#)
*CONCLUSION: GFP transgene was expressed in the lining cells of the...*24th June, 2008
 Department of Otorhinolaryngology, Helsinki University Central Hospital,- Acta Otolaryngol. 2008 Jun;128(6):613-20. ([DOI Direct Link](#))
 - [Topographical anatomy and measurements of selected parameters of the rat temporal bone.](#)
*On the basis of dissection of 24 bones of 12 black rats a systematic...*4th June, 2008
 - Folia Morphol (Warsz). 2008 May;67(2):111-9.
 - [\[Cochlear implantation with suprameatal approach in Chinese children\]](#)
*OBJECTIVE: To investigate the technique of the suprameatal approach for...*3rd June, 2008
 Dept. Otorhinolaryngology, Affiliated Shanghai Sixth People's Hospital of- Zhonghua Er Bi Yan Hou Tou Jing Wai Ke Za Zhi. 2008 Feb;43(2):105-8.
 - [High-density cochlear implants with position sensing and control.](#)
*Silicon-based thin-film technology has been used to develop high-density...*23rd May, 2008
 Engineering Research Center for Wireless Integrated MicroSystems, United- Hear Res. 2008 Aug;242(1-2):22-30. Epub 2008 Apr 14. ([DOI Direct Link](#))

Scala Tympani Clinical Trials:



- [Scalar Localization Cochlear Electrode Array Using 64 Slice CT](#)
Hearing Loss

Scala Tympani Patents:



- 6594525- [Electrical nerve stimulation based on channel specific sampling sequences](#)

- 6958043- [Apparatus and method for displacing the partition between the middle ear and the inner ear using a manually powered device](#)
- 6968238- [Method for inserting cochlear electrode and insertion tool for use therewith](#)
- 7044942- [Implantable fluid delivery apparatuses and implantable electrode](#)
- 7050858- [Insertion tool for placement of electrode system inside the cochlear lumen](#)
- 7063708- [Insertion tool system for an electrode array](#)
- 7071230- [Therapeutic use of D-methionine to reduce the toxicity of noise](#)
- 7129225- [Protection against and treatment of hearing loss](#)
- 7146227- [Combination stylet and straightening coating for a cochlear implant electrode array](#)
- 7149583- [Method of using non-simultaneous stimulation to represent the within-channel fine structure](#)
- 7174223- [Virtual wire assembly having hermetic feedthroughs](#)
- 6927204- [Treatment of inner ear hair cells](#)
- 6889094- [Electrode array for hybrid cochlear stimulator](#)
- 6862805- [Method of making a cochlear electrode array having current-focusing and tissue-treating features](#)
- 6600955- [Multichannel cochlear implant with neural response telemetry](#)
- 6604283- [Method of making precurved, modiolar-hugging cochlear electrode](#)
- 6628991- [Minimally-invasive access into the cochlea for electrode insertion and fluid delivery](#)
- 6629922- [Flexensional output actuators for surgically implantable hearing aids](#)
- 6629923- [At least partially implantable hearing system with direct mechanical stimulation of a lymphatic space of the inner ear](#)
- 6653279- [Treatment of inner ear hair cells](#)
- 6671559- [Transcanal, transtympanic cochlear implant system for the rehabilitation of deafness and tinnitus](#)
- 6751328- [Earphone without impulse noise for protection against conductive hearing loss](#)
- 6754537- [Hybrid implantable cochlear stimulator hearing aid system](#)
- 6778858- [Cochlear implant](#)
- 7179238- [Apparatus and methods for directly displacing the partition between the middle ear and inner ear at an infrasonic frequency](#)
- 7184843- [Electrode array with non-uniform electrode spacing](#)
- 7317945- [Method and system to convey the within-channel fine structure with a cochlear implant](#)
- 7319906- [Cochlear implant electrode and method of making same](#)
- 7321797- [Incremental stimulation sound processor](#)
- 7328072- [Telescopic array for a cochlear implant](#)
- 7340308- [Method for electrically stimulating the cochlea](#)
- 7349744- [Cochlear electrode array](#)
- 7366656- [Method apparatus and system for processing acoustic signals](#)
- 7367992- [Curved cochlear implant electrode array](#)
- 7376563- [System for rehabilitation of a hearing disorder](#)
- 7382850- [Multichannel cochlear implant with neural response telemetry](#)
- 7317944- [System and method for using a multi-contact electrode to stimulate the cochlear nerve or other body tissue](#)
- 7315763- [Cochlear implant electrode and method of making same](#)
- 7292892- [Methods and systems for fitting a cochlear implant to a patient](#)
- 7194314- [Cochlear implant including a modiolar return electrode](#)
- 7209789- [Electrical nerve stimulation based on channel specific sampling sequences](#)
- 7225026- [Monitor for auditory prosthesis](#)
- 7240416- [Process for manufacturing electrically conductive components](#)
- 7251530- [Optimizing pitch and other speech stimuli allocation in a cochlear implant](#)
- 7253271- [BSND nucleic acids and proteins](#)
- 7269461- [Double stylet insertion tool for a cochlear implant electrode array](#)
- 7272449- [Cochlear implant electrode array](#)
- 7277760- [Encoding fine time structure in presence of substantial interaction across an electrode array](#)

- 7283876- [Electrical stimulation of the acoustic nerve based on selected groups](#)
- 7406352- [Laminated electrode for a cochlear implant](#)

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