

Auditory Pathways

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Recent Publications on Auditory Pathways:

- [Dynamic range adaptation to sound level statistics in the auditory nerve.](#)
*The auditory system operates over a vast range of sound pressure levels...*18th November, 2009
Eaton-Peabody Laboratory, Massachusetts Eye and Ear Infirmary, Boston, MA- J Neurosci. 2009 Nov 4;29(44):13797-808. ([DOI Direct Link](#))
- [MEG evidence that the central auditory system simultaneously encodes multiple temporal cues.](#)
*Speech contains complex amplitude modulations that have envelopes with...*18th November, 2009
York Neuroimaging Centre, University of York, York, UK.- Eur J Neurosci. 2009 Sep;30(6):1183-91. Epub 2009 Sep 1. ([DOI Direct Link](#))
- [Axonal projections of auditory cells with short and long response latencies in the medial geniculate nucleus: distinct topographies in the connection with the thalamic reticular nucleus.](#)
*The thalamic reticular nucleus (TRN) is a crucial anatomical node of...*18th November, 2009
Department of Physiology, Wakayama Medical University, Kimiidera 811-1,- Eur J Neurosci. 2009 Sep;30(5):783-99. Epub 2009 Aug 27. ([DOI Direct Link](#))
- [Sensorineural hearing loss in patients with mixed connective tissue disease: immunological markers and cytokine levels.](#)
*OBJECTIVE: To investigate the frequency of sensorineural hearing loss...*17th November, 2009
Division of Clinical Immunology, 3rd Department of Medicine, Medical and- J Rheumatol. 2009 Sep;36(9):1930-6. Epub 2009 Aug 14. ([DOI Direct Link](#))
- [Integrated profile to assess auditory nerve-auditory pathway integrity.](#)
*PURPOSE: To evaluate the Integrated Cochlear Profile for Assessing...*13th November, 2009
Department of Otorhinolaryngology, Union Hospital of Tongji Medical- ORL J Otorhinolaryngol Relat Spec. 2009;71(4):196-208. Epub 2009 Aug 26. ([DOI Direct Link](#))
- [Involvement of the thalamocortical loop in the spontaneous switching of percepts in auditory streaming.](#)
*Perceptual grouping of successive frequency components, namely, auditory...*11th November, 2009
NTT Communication Science Laboratories, NTT Corporation, Kanagawa, Japan.- J Neurosci. 2009 Oct 7;29(40):12695-701. ([DOI Direct Link](#))
- [Distributed and antagonistic contributions of ongoing activity fluctuations to auditory stimulus detection.](#)
*Recent studies have shown that ongoing activity fluctuations influence...*7th November, 2009
Unite 562, Cognitive Neuroimaging, Institut National de la Sante et de la- J Neurosci. 2009 Oct 21;29(42):13410-7. ([DOI Direct Link](#))
- [Neural correlates of consonance, dissonance, and the hierarchy of musical pitch in the human brainstem.](#)
*Consonant and dissonant pitch relationships in music provide the...*7th November, 2009

Department of Speech Language, Hearing Sciences, Purdue University, West- J Neurosci. 2009 Oct 21;29(42):13165-71. ([DOI Direct Link](#))

- [Auditory midbrain implant: a review.](#)
*The auditory midbrain implant (AMI) is a new hearing prosthesis designed...*6th November, 2009
Department of Biomedical Engineering, University of Minnesota,- Trends Amplif. 2009 Sep;13(3):149-80. ([DOI Direct Link](#))
- [Functional reorganization of the auditory pathways \(or lack thereof\) in callosal agenesis is predicted by monaural sound localization performance.](#)
*Neuroimaging studies show that permanent peripheral lesions such as...*4th November, 2009
Centre de Recherche en Neuropsychologie et Cognition, Universite de- Neuropsychologia. 2009 Oct 31. ([DOI Direct Link](#))
- [Mechanisms underlying directional selectivity for frequency-modulated sweeps in the inferior colliculus revealed by in vivo whole-cell recordings.](#)
*Auditory neurons in the inferior colliculus (IC) show remarkable...*31st October, 2009
Section of Neurobiology, Institute for Neuroscience, and Center for- J Neurosci. 2009 Oct 14;29(41):13030-41. ([DOI Direct Link](#))
- [Intracranial recording and source localization of auditory brain responses elicited at the 50 ms latency in three children aged from 3 to 16 years.](#)
*Maturation studies of the auditory-evoked brain response at the 50 ms...*15th October, 2009
Carman and Ann Adams Department of Pediatrics, Children's Hospital of- Brain Topogr. 2009 Nov;22(3):166-75. Epub 2009 Aug 22. ([DOI Direct Link](#))
- [Deficiency of neural recognition molecule NB-2 affects the development of glutamatergic auditory pathways from the ventral cochlear nucleus to the superior olivary complex in mouse.](#)
*Neural recognition molecule NB-2/contactin 5 is expressed transiently...*13th October, 2009
Department of Bioengineering, Nagaoka University of Technology, 1603-1,- Dev Biol. 2009 Dec 15;336(2):192-200. Epub 2009 Oct 7. ([DOI Direct Link](#))
- [Integration of auditory and visual information in human face discrimination in pigeons Behavioral and anatomical study.](#)
*Social stimuli are often multi-sensory. Animals commonly recognize a...*6th October, 2009
Department of Psychology, Keio University, Mita 2-15-45, Minato-Ku, Tokyo- Behav Brain Res. 2009 Oct 2. ([DOI Direct Link](#))
- [Auditory brainstem evoked responses in newborns with down syndrome.](#)
*Auditory brainstem evoked responses (ABRs) were compared in 15 newborns...*2nd October, 2009
- Am J Intellect Dev Disabil. 2009 Nov;114(6):393-400. ([DOI Direct Link](#))

Auditory Pathways Patents:



- 4008439- [Processing of two noise contaminated, substantially identical signals to improve signal-to-noise ratio](#)
- 6155971- [Computer implemented methods for reducing the effects of tinnitus](#)
- 6156728- [Treatment of inner ear hair cells](#)
- 6265379- [Method for treating otic disorders](#)
- 6274554- [Method for preventing and treating hearing loss using a neurturin protein product](#)
- 6299632- [Method for changing critical brain activity using light and sound](#)

- 6331537- [Carboxylic acids and carboxylic acid isosteres of N-heterocyclic compounds](#)
- 6358926- [Neurotoxin therapy for inner ear disorders](#)
- 6423321- [Cytokine antagonists for the treatment of sensorineural hearing loss](#)
- 6443977- [Apparatus and method for changing critical brain activity using light and sound](#)
- 6048305- [Apparatus and method for an open ear auditory pathway stimulator to manage tinnitus and hyperacusis](#)
- 6043221- [Method for preventing and treating hearing loss using a neuturin protein product](#)
- 4073883- [Method for treatment of impaired hearing](#)
- 5007838- [Tactile enhancement method for progressively optimized reading](#)
- 5061185- [Tactile enhancement method for progressively optimized reading](#)
- 5083924- [Tactile enhancement method for progressively optimized reading](#)
- 5230344- [Evoked potential processing system with spectral averaging, adaptive averaging, two dimensional filters, electrode configuration and method therefor](#)
- 5375594- [Removable medical electrode system](#)
- 5561163- [Treating hearing loss with deprenyl](#)
- 5837681- [Method for treating sensorineural hearing loss using glial cell line-derived neurotrophic factor \(GDNF\) protein product](#)
- 5929041- [Method for preventing and treating sensorineural hearing loss and vestibular disorders using glial cell line-derived neurotrophic factor\(GDNF\) protein product](#)
- 6556861- [Fetal brain monitor](#)
- 6593290- [Treatment of inner ear hair cells](#)
- 7130759- [Telemetric contextually based spatial audio system integrated into a mobile terminal wireless system](#)
- 7147327- [Pupillometer with pupil irregularity detection, pupil tracking, and pupil response detection capability, glaucoma screening capability, intracranial pressure detection capability, and ocular aberration measurement capability](#)
- 7149320- [Binaural adaptive hearing aid](#)
- 7153883- [Carboxylic acids and carboxylic acid isosteres of N-heterocyclic compounds](#)
- 7253169- [Aza compounds, pharmaceutical compositions and methods of use](#)
- 7572234- [EEG feedback controlled sound therapy for tinnitus](#)
- 7603174- [Stimulation of the amygdalohippocampal complex to treat neurological conditions](#)
- 7613519- [Peripheral nerve stimulation to treat auditory dysfunction](#)
- 7613520- [Spinal cord stimulation to treat auditory dysfunction](#)
- 7082332- [Sound processor for a cochlear implant](#)
- 7081085- [EEG feedback controlled sound therapy for tinnitus](#)
- 6653279- [Treatment of inner ear hair cells](#)
- 6656172- [Method for treating severe tinnitus](#)
- 6675114- [Method for evaluating sound and system for carrying out the same](#)
- 6820979- [PUPILOMETER WITH PUPIL IRREGULARITY DETECTION, PUPIL TRACKING, AND PUPIL RESPONSE DETECTION CAPABILITY, GLAUCOMA SCREENING CAPABILITY, INTRACRANIAL PRESSURE DETECTION CAPABILITY, AND OCULAR ABERRATION MEASUREMENT CAPABILITY](#)
- 6845338- [Telemetric contextually based spatial audio system integrated into a mobile terminal wireless system](#)
- 6866639- [Handheld low voltage testing device](#)
- 6927204- [Treatment of inner ear hair cells](#)
- 6969383- [Method for treating severe tinnitus](#)
- 6974823- [Hydantoin derivative compounds, pharmaceutical compositions, and methods of using same](#)
- 7618450- [Implantable hearing system](#)

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