

3rd Tinnitus Research Initiative Meeting - Overview Scientific Program

Tuesday, June 23rd		Wednesday, June 24th			Thursday, June 25th			Friday, June 26th	
08:30 - 09:15		KEYNOTE: Pain & Tinnitus: Similarities and Differences Herta Flor			KEYNOTE: Central Auditory System Correlates of Tinnitus and Hyperacusis Jos Eggermont			KEYNOTE: Tinnitus and Nonauditory Brain Areas Pawel Jastreboff	
09:15 - 10:00		KEYNOTE: Pharmacologic Targets for the Treatment of Pain and Tinnitus Theo Meert			KEYNOTE: The Medial Olivocochlear System & Protection from Acoustic Trauma Ana Belén Elgoyhen			KEYNOTE: A Heuristic Pathophysiological Model of Tinnitus Dirk de Ridder	
Coffee Break (30 min)		Coffee Break (30 min)			Coffee Break (30 min)			Coffee Break (30 min)	
10:30 - 12:15		Hearing Aids & Tinnitus Devices for passive auditory stimulation L. Del Bo	Genetics of Tinnitus A. Martini	Neuroimaging / MRI J. Melcher / M. Landgrebe	Auditory Stimulation A. Norena / L. Roberts	Targets for Pharmacologic Interventions A.B. Elgoyhen / M. Mulheran	Tinnitus Assessment R. Tyler	Audiological Assessment G. Searchfield	Tinnitus: A Network Approach W. Schlee / N. Weisz
Lunch (1h30)	POSTER SESSION	Lunch (1h30)	POSTER SESSION	Lunch (1h30)	POSTER SESSION	Lunch (1h30)	POSTER SESSION	Lunch (1h30)	POSTER SESSION
13:45 - 15:30		Hyperacusis C. Herraiz / L. del Bo	Animal Models R. Salvi	Neuroimaging EEG/MEG N. Weisz	Specific Forms of Tinnitus A. Londero / T. Kleinjung	Neuroplasticity, Cellular mechanisms of Tinnitus T. Tzounopoulos	Pharmacologic Treatment of Tinnitus J.M. Lainez / B. Langguth	Tinnitus and Tinnitus Related Disorders P. Jastreboff / G. Hajak	Clinical Practice and Basic Neuroscience of Somatosensory Tinnitus T. Sanchez
Coffee Break (30 min)		Coffee Break (30 min)			Coffee Break (30 min)			Coffee Break (30 min)	
16:00 - 18:00		Auditory Training G. Searchfield / L. Roberts	Auditory System Neurophysiology A. Norena	Neurostimulation D. de Ridder / B. Langguth	Non Conventional Approach M. Mazzoli / E. Biesinger	Strategies for Tinnitus Research A. Moller	Cochlear Stimulation P. van de Heyning / R. Tyler	PLENUM: Flowchart for the Clinical Management of Tinnitus	
18:00 - 19:00					The Future of TRI Introduction by Berthold Langguth and Matteo de Nora				
19:00 - 20:00	OPENING LECTURE: Tinnitus: Present & Future Aage Moller								
20:30	<i>Welcome Cocktail</i>				<i>G A L A D I N N E R</i>				

For detailed information about the sessions, please see the following pages

Wednesday, June 24th			
8:30 - 9:15	KEYNOTE: Herta Flor : Pain & Tinnitus: Similarities and Differences		
09:15 - 10:00	KEYNOTE: Theo Meert: Pharmacologic Targets for the Treatment of Pain and Tinnitus		
Coffee Break (30 min)			
10:30 - 12:15	Hearing Aids & Tinnitus Devices for passive auditory stimulation L.Del Bo E. Biesinger: The Vibrant Sound Bridge - Amplification of the high frequencies and its effects on tinnitus O. Dyrlund: Acoustic environment classification technology for optimizing tinnitus sound therapy E. Viirre: The rationale of CST Stimulation A. Norena: The theory of the auditory stimulation R. Tyler: A review of noise and music maskers G. Searchfield: High-fidelity amplification as a tinnitus management tool A. Paglialonga: The passive auditory stimulation workgroup presentation	Genetics of Tinnitus A.Martini A. Martini: Genetics of Tinnitus: What we know about M. Pawelczyk: Genetic factors for tinnitus and noise-induced hearing loss: are they different? D. Stephens: Psychosocial aspects of hereditary tinnitus M. Knipper: Trauma-induced alteration of activity-dependent genes in the auditory system: implications for tinnitus perception and auditory plasticity	Neuroimaging/MRI J.Melcher / M.Landgrebe S. Kovacs: Tonotopic changes in the auditory cortex in unilateral tinnitus patients: a fMRI study M. Landgrebe: Structural brain changes in tinnitus: Grey matter decrease in auditory and non-auditory brain areas C. Lanting: Somatosensory input to the auditory pathway in humans, an fMRI Study J. Gu: Auditory evoked potentials and FMRI in people with tinnitus and reduced tolerance of high-level sound
-----Poster Session-----LUNCH (1h30)-----Poster Session-----LUNCH (1h30)----- Poster Session-----LUNCH (1h30)-----Poster Session-----LUNCH (1h30)-----			
13:45 - 15:30	Hyperacusis C.Herraiz / L.del Bo C. Herraiz: Hyperacusis: An overview O. Wagenaar: A cognitive model of tinnitus and hyperacusis V. Ghulyan-Bedikian: Hearing aids for hyperacusis sufferers with normal hearing A. Berthold: The significance of self assessment instruments in the diagnosis of hyperacusis: comparison of the german hyperacusis-questionnaire (GUF) and the french hyperacusis-questionnaire (HQ)	Animal Models R.Salvi R. Salvi: Animal models-Insights and speculations relevant to human tinnitus E. Lobarinas: Update on the Gap Prepulse Inhibition of the Acoustic Startle Animal Model of Tinnitus and Treatment M. Ralli: Comparison of salicylate and quinine-induced tinnitus in rats using the acoustic startle reflex L. Chen: Impaired functions of gabaergic neurons in salicylate-induced tinnitus A. Norena: Auditory cortex changes in awake guinea pig after salicylate administration and noise trauma	Neuroimaging EEG/MEG N.Weisz N. Weisz: The Good and the Bad Vibrations - Tinnitus and Neuronal Oscillations D. Reato: Modulation of carbachol-evoked gamma activity in vitro with low-amplitude AC electric fields M. Plazier: The neural correlates of acute and chronic tinnitus E. van der Loo: Neural correlates related to the autonomous nervous system (and) in Tinnitus distress S. Vanneste: Neural correlates of distress in tinnitus
Break (30 min)			
16:00 - 18:00	Auditory Training G.Searchfield / L.Roberts D. Hall: Assessing the potential benefits from auditory perceptual training: deriving appropriate and testable hypotheses from physiological models of tinnitus G. Searchfield: Perceptual training for tinnitus management L. Roberts: Induction of neural plasticity by auditory training D. Bosnyak: Electrophysiological assessment of training outcomes using simultaneously evoked transient and steady-state responses I. Viaud-Delmon: Virtual reality for tinnitus rehabilitation C. Herraiz: Auditory discrimination training (ADT) for tinnitus treatment	Auditory System Neurophysiology A.Norena A. Norena: The long road to the neuroscience of tinnitus M. Mulheran: Characterisation of anomalous temporal discharge patterns in normal guinea pig cochlear nerve fibres D. Robertson: Changes in neural activity and gene expression in central nuclei after restricted unilateral cochlear lesions J. Melcher: A model for tinnitus generation based in the ventral, not dorsal, cochlear nucleus H. Okamoto: Attentional Effects on excitatory and inhibitory neural activity in the human auditory cortex	Neurostimulation D.de Ridder / B.Langguth T. Sanchez: Clinical and neuroimaging outcomes of the efficacy of transcranial magnetic stimulation in patients with tinnitus and normal hearing A. Londero: Navigated rTMS for the treatment of tinnitus: assessment by AEPs and fMRI A. Cacace: Potential artifacts introduced in tinnitus studies using repetitive transcranial magnetic stimulation (rTMS) A.S. Giani: Treating tinnitus with TMS: theta burst stimulation and the relief of auditory phantom perceptions G. Frank: Which tinnitus patients benefit from rTMS? E. Khedr: One-year follow up of patients with chronic tinnitus treated with left temporoparietal rTMS

Thursday, June 25th			
8:30 - 9:15	KEYNOTE: Jos Eggermont: Central Auditory System Correlates of Tinnitus and Hyperacusis		
09:15 - 10:00	KEYNOTE: Ana Belén Elgoyhen: The Medial Olivocochlear System & Protection from Acoustic Trauma		
Coffee Break (30 min)			
10:30 - 12:15	<p style="text-align: center;">Auditory Stimulation A.Norena/ L.Roberts</p> <p>H. Stracke: New music therapy for tinnitus patients based on lateral inhibition P.A. Tass: Long-lasting tinnitus relief achieved by acoustic coordinated reset stimulation H. Nagashino: Inhibition of oscillation in a computational model for tinnitus and its management by sound therapy K.M. Heijneman: A double-blind cross-over study to evaluate the effect of phase-shift sound therapy on tonal tinnitus A. Norena: Recovery after a noise trauma</p>	<p style="text-align: center;">Targets for Pharmacologic Interventions A.B.Elgoyhen / M.Mulheran</p> <p>A. Fryatt: Voltage-gated sodium channel expression in rat spiral ganglion neurons T. Nakagawa: Relief from peripheral tinnitus: sustained delivery of lidocaine into cochlea using PLGA microparticles G. Parsons: Effects of neramexane on inotropic a9a10 nicotinic receptors and human NMDA (NR1A/2A) - relevance for tinnitus</p>	<p style="text-align: center;">Tinnitus Assessment R.Tyler</p> <p>R. Cima: The tinnitus disability index: a novel measure for tinnitus-related disability R. Figueiredo: Analysis of the correlation between audiometric thresholds, psycho-acoustic measures and validated questionnaires in tinnitus patients R. Görtelmeyer: Measuring tinnitus: a re-evaluation of the dimensionality and congruent validity of the 12 items Tinnitus Handicap Inventory A.V. Oliveira: Tinnitus handicap inventory's relationship with sociodemographic aspects G. Attanasio: Sleep disturbance in chronic tinnitus patients S. Vanneste: Non-linear relationship for tinnitus between the intensity and the distress</p>
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13:45 - 15:30	<p style="text-align: center;">Specific Forms of Tinnitus A.Londero / T.Kleinjung</p> <p>S. Barozzi: Paroxysmal positional vertigo and tinnitus A. Londero: Pulsatile tinnitus caused by dural arteriovenous shunts: effect of embolization on patient's quality of life T. Sanchez: Multidisciplinary evaluation of patients with tinnitus and complex auditory hallucinosis R. Levine: The somatosensory pulsatile tinnitus syndrome provides further support for the dorsal cochlear nucleus tinnitus hypothesis T. Kleinjung: The effect of middle ear surgery on tinnitus patients with conductive hearing loss M. Ohki: Idiopathic bilateral tinnitus concomitant to eye closure</p>	<p style="text-align: center;">Neuroplasticity, Cellular Mechanisms of Tinnitus T.Tzounopoulos</p> <p>T. Tzounopoulos: Mechanisms of synaptic plasticity in the auditory brainstem: plasticity-induced changes that could underlie tinnitus D. Depireux: Targeting and reducing noise trauma-induced tinnitus in a rat model M. Wehr: Disruption of balanced cortical excitation and inhibition by acoustic trauma W.H.A.M. Mulders: Modulation hyperactivity in guinea pig inferior colliculus after acoustic trauma</p>	<p style="text-align: center;">Pharmacologic Treatment of Tinnitus J.M.Lainez / B.Langguth</p> <p>M. Althaus: Clinical development of new drugs for the treatment of tinnitus using the example of Neramexane R. Figueiredo: Effects of caffeine in tinnitus: preliminary data I. Sziklai: Tinnitus control by dopamine agonist pramipexole in presbycusis patients. A randomized, placebo-controlled, double-blind study P. Enrico: Antioxidants, minerals, vitamins, and herbal remedies in tinnitus therapy. An update. C. Hoekstra: Anticonvulsants for chronic tinnitus, a systematic review T. Sakamoto: Treatment of noise induced hearing loss by stealth-type nanoparticles encapsulating betamethasone phosphate</p>
Break (30 min)			
16:00 - 18:00	<p style="text-align: center;">Non Conventional Approach M.Mazzoli / E.Biesinger</p> <p>G. Attanasio: Mindfulness based Tinnitus Treatment E. Biesinger: The effect of Qi Gong on somatosensory tinnitus (SST) M. Lopez-Gonzalez: New diet for tinnitus: adenosine diet M. Mazzoli: Mindfulness based stress reduction (MBSR) intervention in tinnitus therapy M. Savastano: Low level laser therapy: tinnitus subjective characteristics and measurements. Preliminary report Z. Shemesh: The non responder patients before they receive the accelerators</p>	<p style="text-align: center;">Strategies for Tinnitus Research A.Moller</p> <p>S. Mitchell: American Tinnitus Association - Roadmap for a Cure P. Ciccicarese: Tinnitusbook: a proposal for an advanced scientific web community for tinnitus research R. Goodey: Learning from the literature F. Zeman: Tinnitus-Subtyping by establishing the TRI data base B. Langguth: TRI - together for a cure D. Passali: Survey study on tinnitus in the world D. Goldman: RNID - working towards a cure</p>	<p style="text-align: center;">Cochlear Stimulation P.van de Heyning / R.Tyler</p> <p>R. Tyler: Electrical stimulation of the cochlea to reduce tinnitus Y. Cazals: Cortical plasticity after unilateral deafness and electrical cochlear stimulation: a study in guinea pigs R. Levine: Continuous auricular electrical stimulation for tinnitus: an update B. Frachet: Cochlear implant and tinnitus Tinnelec device for tinnitus reduction P. van de Heyning: Electrical promontory stimulation and cochlear implantation for the treatment of tinnitus in single sided deafness</p>
18:00 - 19:00	TRI: An international Research Organisation - Open Meeting		
20:30	<i>Gala Dinner</i>		

Friday, June 26th	
8:30 - 9:15	KEYNOTE: Pawel Jastreboff: Tinnitus and Nonauditory Brain Areas
09:15 - 10:00	KEYNOTE: Dirk De Ridder: A Heuristic Pathophysiological Model of Tinnitus
Break (30 min)	
10:30 - 12:15	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">Audiological Assessment G.Searchfield</p> <p>P. Gander: The 40-hz auditory steady-state response in tinnitus and residual inhibition: effect of centre frequency of masking and probe sounds E. de Kleine: Wavelet analysis of contralateral suppression of otoacoustic emissions in tinnitus patients L. Parra: Spectral profil of tinnitus can be predicted from high-resolution audiogram and dpoeae for a subset of subjects I.M. Knudson: Auditory peripheral dysfunction in tinnitus subjects with normal audiograms</p> </div> <div style="width: 45%;"> <p style="text-align: center;">Tinnitus: A Network Approach W.Schlee / N.Weisz</p> <p>W. Schlee: Neuromagnetic Evidence for a Global Network of Tinnitus Perception E. Diesch: Interaction among steady-stat response components: enhancement in tinnitus patients, suppression in controls M. Congedo: Connectivity of group independent components; D. Langers: Functional interactions between auditory and limbic brain centers during sound perception and rest V. Mattei: Cortical functional connectivity at rest in tinnitus patients</p> </div> </div>
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13:45 - 15:30	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">Tinnitus and Tinnitus Related Disorders P.Jastreboff / G.Hajak</p> <p>P. Jastreboff: Tinnitus and Hyperacusis M. Landgrebe: Tinnitus and somatoform disorders B. Langguth: Tinnitus and affective disorders G. Hajak: Tinnitus and sleep J.M. Lainez: Tinnitus and headache</p> </div> <div style="width: 45%;"> <p style="text-align: center;">Clinical Practice and Basic Neuroscience of Somatosensory Tinnitus T.Sanchez</p> <p>C. Herraiz: The Clinical Profile of the Patient with Somatosensory Tinnitus S. Shore: What the animal research has clarified in SS tinnitus R. Salvi: What the neuroimaging has demonstrated in somatosensoric tinnitus T. Sanchez: The present and future options for treating somatosensory tinnitus</p> </div> </div>
Break (30 min)	
16:00 - 18:00	<p>Flowchart for the Clinical Management of Tinnitus</p> <p>PLENUM</p>

Poster presentations

Wednesday, June 24, 2009	
Audiology	
G. Baracca	Customized sound therapy for tinnitus: clinical testing
S. Bertet	Definition of a procedure for creating a synthetic tinnitus auditory image
A.C. Binetti	Tinnitus: residual inhibition in comparison with subjective evaluation and hyperacusis
S. Djokovic	Importance of the TEOAE in total diagnostics noise in ear
L. Parra (X. Zhou)	Perception thresholds of pure tone in notched noise correlate with generator component of distortion product oto-acoustic emissions
J. Smurzynski	Extended high frequency audiometry and distortion product otoacoustic emission in normal-hearing patients with unilateral tinnitus
K. Wise	Auditory attention, hearing and tinnitus
Neurobiology	
S. Carmona	Median and long latency auditory evoked potentials in auditory processing disorder
M. Chrostowski	Oscillatory activity and tinnitus: a computational model
Z. Kapoula	Abnormalities of saccades, vergence, pursuit, optokinetic nystagmus and fixation in five subjects with tinnitus
Z. Kapoula	Postural instability in patients with highly modulated tinnitus: evidence for abnormal sensorimotor interaction
A. Norena	Neuronal correlate of a transient phantom auditory perception in the auditory cortex of the awake guinea pig
Epidemiology	
A.C. Binetti	Statistical study of a group of 174 patients suffering tinnitus in Buenos Aires city
S. Djokovic	Impact of etiological factors on the appearance of certain types of tinnitus
S. Forti	Does tinnitus exist in normal hearing patients?
G. Goebel	Profile of the German Tinnitus League (DTL): characteristics of the members compared with epidemiological dates
M. Landgrebe	Association of tinnitus and electromagnetic hypersensitivity: hints for a shared pathophysiology?
O. Meeus	The use of transcranial magnetic stimulation (TMS) in modulation of pure tone and narrow band noise tinnitus
O. Meeus	Correlation between hyperacusis measurements in tinnitus patients
V. Vielsmeier	Tinnitus and temporomandibular disorders - assessment of tinnitus in 600 consecutive patients presenting with TMJ complaints in a specialized university department
Thursday, June 25, 2009	
Treatment 1	
A. Crocetti	Neurofeedback training for tinnitus: An update
E. Frank	Pharmacological enhancement of low-frequency rTMS in tinnitus treatment by dopaminergic drugs
R. Guerrero	Electrical stimulation and silence therapy for chronic bilateral tinnitus - case study
E. Khedr	A comparative study: Contralateral versus ipsilateral rTMS of temporo-parietal cortex for the treatment of chronic tinnitus
I. Lorenz	The short-term impact of different rTMS parameters on tinnitus
M.S. Park	Transcutaneous electrical stimulation on pinna and myofascial trigger points for relief of tinnitus

Audiological Treatment	
P. Davis	Effects of severe unilateral hearing loss on tinnitus rehabilitation
L. Del Bo	Is the sound generator volume control needed for sound therapy with hearing instrument combination device?
H. Stracke	Notched-music training for chronic tonal tinnitus
M.-W. Suh	Specific Effects and Prognostic Factors of Hearing Aids on Tinnitus
D. Tavora-Vieira	Acoustic stimulation in tinnitus treatment for patients with significant level of hearing loss
P. van de Heyning	QEEG changes of the auditory cortex following cochlear implantation tinnitus in single sided deafness (SSD)
O. Meeus	Phase out treatment in pure tone and narrow band noise tinnitus patients
Others	
S. Carmona	Audiologic and vestibular symptoms in fabry disease, clinical presentation and possible site of the lesions
P. Giannini	Sleep complaints in sufferers tinnitus small patients
G. Goebel	Website of the European Federation of Tinnitus Associations (EUTI): Characteristics of the tinnitus related distress in 15 different languages of the Tinnitus-Questionnaire (MINI-TQ12)
B. Langguth	Consensus for Tinnitus Patient Assessment and Treatment Outcome Measurement
V. Vielsmeier	Treatment of tinnitus in a multidisciplinary clinic
P. Winkler	Early patient experience with the TIPA tinnitus device
Friday, June 26, 2009	
Treatment 2	
R. Horie	Hydrogen protects auditory hair cells from free radicals in vivo
J. Kaltenbach	Effects of neramexane on tinnitus-related hyperactivity in the dorsal cochlear nucleus
K. Kobayashi	Application of PDA to tinnitus treatment
L. Lagemann	Preventing chronic tinnitus - music therapy for patients suffering from idiopathic sudden sensorineural hearing loss
R. Vergara	Tinnitus treatment with amitriptyline: special modality and timetable
Imaging	
L. Geven	Pet imaging for cortical hyperactivity in Tinnitus patients: interim analysis
S. Kovacs	Tonotopic changes in the auditory cortex in unilateral tinnitus patients: a fMRI study
M. Plazier	Neural differences between pure tone and noise-like tinnitus
M. Plazier	Unilateral perception of tinnitus and bilateral perception of tinnitus: preliminary results on the neural correlates
M. Plazier	Visual analogue scale (VAS) for tinnitus intensity and its repercussions on the neural network
S. Vanneste	Left-sided tinnitus compared to right-sided tinnitus: Is there a difference?
Somatosensory Tinnitus	
C. Herraiz	Evaluation of Botulinum Toxin in the treatment of somatosensory tinnitus
C. Rocha	Efficacy of deactivation of myofascial trigger points in patients with both tinnitus and myofascial pain
T. Sanchez	Tender points can also evoke somatosensory modulation of tinnitus
T. Sanchez	Somatosensory modulation of tinnitus: a three-phase study from prevalence to treatment
M. Westcott	Somatosensory tinnitus and tonic tensor tympani syndrome (TTTS)

Posters of oral presentations

M. Althaus	Clinical development of new drugs for the treatment of tinnitus using the example of Neramexane
G. Attanasio	Tinnitusbook: a proposal for an advanced scientific web community for tinnitus research
R. Cima	The tinnitus disability index: a novel measure for tinnitus-related disability
R. Figueiredo	Analysis of the correlation between audiometric thresholds, psycho-acoustic measures and validated questionnaires in tinnitus patients
R. Figueiredo	Effects of caffeine in tinnitus: preliminary data
R. Görtelmeyer	Measuring tinnitus: a re-evaluation of the dimensionality and congruent validity of the 12 items Tinnitus Handicap Inventory
D. Goldman	RNID - working towards a cure
M. Lopez-Gonzalez	New diet for tinnitus: adenosine diet
H. Okamoto	Attentional effects on excitatory and inhibitory neural activity in the human auditory cortex
L. Parra	Spectral profil of tinnitus can be predicted from high-resolution audiogram and DPOAE for a subset of subjects
G. Parsons	Effects of neramexane on inotropic $\alpha 9\alpha 10$ nicotinic receptors and human NMDA (NR1A/2A) - relevance for tinnitus
O. Wagenaar	A cognitive model of tinnitus and hyperacusis