

## PROGRAMME OVERVIEW

### Conference venue

The conference will take place at the Railway Museum (“Spoorwegmuseum”) in Utrecht. The workshop will be held in the Auditorium (“Bedrijfschool”) of the Museum. The registration desk will be staffed on Sunday and Monday in the lobby of the “Bedrijfschool”.

### Saturday 12<sup>th</sup> September

18:00-20:00 Welcome reception at the Academy Building (“Academiegebouw”) and the adjoining Cloister Garden. The Academy Building is next to the Dom Cathedral and its Bell Tower (“Domtoren”) in the city centre.

### Sunday 13<sup>th</sup> September

08:30 onwards Registration  
09:00-09:15 Welcoming remarks  
09:15-10:30 Scientific session 1  
10:30-11:15 Break and poster viewing  
11:15-12:30 Scientific session 2  
12:30-14:00 Lunch and poster viewing  
14:00-15:15 Scientific session 2 (continued) and Scientific session 3  
15:15-16:00 Break and poster viewing  
16:00-17:30 Scientific session 4

### Monday 14<sup>th</sup> September

08:30 onwards Registration  
09:00-10:30 Scientific session 5  
10:30-11:15 Break and poster viewing  
11:15-12:30 Scientific session 6  
12:30-14:00 Lunch and poster viewing  
14:00-15:15 Scientific session 7  
15:15-16:00 Break and poster viewing  
16:00-17:00 IEB Business Meeting  
17:30-19:00 Boat trip through the canals of Utrecht; drinks are served on board  
19:00-22:00 Conference dinner at the “Spoorwegmuseum”

### Tuesday 15<sup>th</sup> September

9:00-10:30 Scientific session 8  
10:30-11:15 Break  
11:15-12:15 Scientific session 9  
12:15-12:30 Closing remarks

Coffee and refreshments will be provided at the session breaks; lunches will be served in the Third-Class Waiting Room (“Wachtkamer 3e klasse”). Conference dinner is held in the Main Exhibition Hall of the “Spoorwegmuseum”.

Posters are on display for the duration of the Workshop in the Third-Class Waiting Room (“Wachtkamer 3e klasse”), from Sunday morning 08:00 onwards. Posters should be removed on Tuesday morning not later than 11:00. The maximum sizes of the poster display boards are 97 cm wide x 147 cm high (portrait format).

## SCIENTIFIC PROGRAMME

### ORAL PRESENTATIONS

Time allotted to speakers is 12 minutes with an additional 3 minutes for discussion. Speakers should contact the Slide Center to hand in their presentations (CD or USB memory stick) for uploading at least one hour before the beginning of the respective session or in the late afternoon of the day before, in case of morning presentations.

#### Sunday 13<sup>th</sup> September

- 08:30 onwards            Registration
- 09:00-09:15            Welcoming remarks
- 09:15-10:30            **Session 1: Transduction and Neurotransmission (Part 1)**
- 09:15-09:30    O 01    TWO POPULATIONS OF HAIR CELL TRANSDUCER CHANNELS  
ENHANCE AUDITORY SENSITIVITY AND DYNAMIC RANGE  
  
Van Netten SM, Kros CJ
- 09:30-09:45    O 02    MEASUREMENTS WITH OPTICAL COHERENCE TOMOGRAPHY IN THE  
MAMMALIAN COCHLEA  
  
De Boer E, Alfred L Nuttall
- 09:45-10:00    O 03    MECHANICAL TUNING OF THE TECTORIAL MEMBRANE IN THE BASILAR  
PAPILLA OF THE FROG  
  
Van Dijk P, Schoffelen RLM, Segenhout JM
- 10:00-10:15    O 04    THE INTERPLAY BETWEEN ELECTROMOTILITY AND HAIR BUNDLE  
MOTILITY IN THE COCHLEA  
  
Ó Maoiléidigh D, Jülicher F
- 10:15-10:30    O 05    SECONDARY COCHLEA VIBRATIONS  
  
Offutt G
- 10:30-11:15            Break and poster viewing
- 11:15-12:30            **Session 2: Basic Audiovestibular Research**
- 11:15-11:30    O 06    3D CYTOARCHITECTURE AND MORPHOMETRY OF THE  
COCHLEA OF THE CBA/J MOUSE  
  
Santi PA, Johnson SB
- 11:30-11:45    O 07    HISTORICAL STUDIES ON THE VASCULAR SUPPLY OF THE COCHLEA

- Tange RA, Mudry A
- 11:45-12:00 O 08 VESTIBULAR FUNCTION IN A NEW ANIMAL MODEL FOR MENIERE'S DISEASE
- Kakigi A, Yamasoba T, Takeda T
- 12:00-12:15 O 09 DEVELOPMENTAL CHANGES IN THE FREQUENCY-TUNING PROPERTIES OF RAT VESTIBULAR GANGLION NEURONS
- Chihara Y, Iwasaki S, Yamasoba T, Sahara Y
- 12:15-12:30 O 10 A RE-EXAMINATION OF THE STRIATED ORGANELLE IN VESTIBULAR END ORGANS
- Lysakowski A, Vranceanu F
- 12:30-14:00 Lunch and poster viewing
- 14:00-15:15 **Session 2: Basic Audiovestibular Research (*continued*)**
- 14:00-14:15 O 11 DIFFERENTIAL PASSAGE OF GADOLINIUM THROUGH THE MOUSE INNER EAR BARRIERS EVALUATED WITH 4.7-T MRI
- Zou J, Zhang W, Poe D, Zhang Y, Ramadan UA, Pyykkö I
- 14:15-14:30 O 12 DIAGNOSTIC MAGNETIC RESONANCE IMAGES WITHOUT GADOLINIUM FOR INNER EAR DISEASES
- Sakamoto T, Adachi T, Narazaki M, Matsuda T, Nakagawa T, Ito J
- 14:30- 15:15 **Session 3: Genetics and Deafness Genes**
- 14:30-14:45 O 13 MOLECULAR EPIDEMIOLOGY OF HEARING LOSS IN THE PORTUGUESE POPULATION: TWO APPROACHES
- Simões-Teixeira H, Matos TD, Moreno F, Fialho G, Del Castillo I, Caria H
- 14:45-15:00 O 14 ASSOCIATION OF FUNCTIONAL SINGLE-NUCLEOTIDE POLYMORPHISMS (SNPs) OF PTPN22 AND FcγRIIIa (CD16a) HUMAN GENES WITH MENIERE'S DISEASE IN SOUTHEAST SPANISH POPULATION
- Lopez-Escamez JA, Acosta L, Moreno A, Saenz-Lopez P, Gazquez I, Perez-Garrigues H, Lopez-Nevot A, Lopez-Nevot MA
- 15:00-15:15 O 15 INVOLVEMENT OF T-CELL RECEPTOR BETA ALTERATIONS IN THE DEVELOPMENT OF OTOSCLEROSIS LINKED TO OTSC2
- Schrauwen I, Venken K, Vanderstraeten K, Thys M, Hendrickx JJ, Fransen E, Van Laer L, Govaerts PJ, Verstreken M, Schatteman I, Stinissen P, Hellings N, Van Camp G
- 15:15-16:00 Break and poster viewing

- 16:00-17:30           **Session 4: Inner Ear Pathology**
- 16:00-16:15    O 16    MECHANISMS OF AMINOGLYCOSIDE UPTAKE INTO HAIR CELLS  
Ryan AF, Masatsugu M, Pak K
- 16:15-16:30    O 17    SPECIAL TYPE OF PRESBYCUSIS IN THE FISCHER 344 RAT STRAIN  
 Syka J
- 16:30-16:45    O 18    ADENOSINE RECEPTOR SIGNALING MITIGATES NOISE-INDUCED  
 COCHLEAR INJURY  
Vlajkovic SM, Wong CY, Guo CX, Lee KH, Gupta R, Housley GD, Thorne PR
- 16:45-17:00    O 19    MITOCHONDRIAL DYSFUNCTION, PRO-INFLAMMATORY CYTOKINES  
 AND TAUOPATHY SIGN AGING COCHLEA AND HEARING IMPAIRMENT  
Wang J, Ladrech S, Menardo J, Casas F, Bourien J, Maurice T, Lenoir M,  
 Puel JL
- 17:00-17:15    O 20    INFILTRATING MACROPHAGES IN THE COCHLEAR LABYRINTH  
 BARRIER IN RESPONSE TO LOUD SOUND STIMULATION MEDIATED BY  
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 Shi X, Nuttall AL
- 17:15-17:30    O 21    c-MYC REGULATES MITOCHONDRIAL PEROXIREDOXIN IN MOUSE  
 COCHLEAR HAIR CELLS  
 Sha SH, Chen FQ, Schacht J

**Monday 14<sup>th</sup> September**

- 08:30 onwards           Registration
- 09:00-10:30           **Session 5: Prevention of Cochlear Damage**
- 09:00-09:15    O 22    STRESS AND SURVIVAL PATHWAYS IN THE MAMMALIAN COCHLEA  
Bodmer D, Caelers A, Radojevic V, Brand Y, Traenkle J
- 09:15-09:30    O 23    SOMATOSTATIN AND GENTAMICIN-INDUCED AUDITORY HAIR CELL  
 LOSS  
Brand Y, Caelers A, Monge A, Radojevic V, Setz C, Bodmer D
- 09:30-09:45    O 24    THE ROLE OF PROSTAGLANDIN E RECEPTOR SUBTYPE EP2 AND EP4  
 IN THE COCHLEA  
Hori R, Nakagawa T, Yamamoto N, Hamaguchi K, Ito J
- 09:45-10:00    O 25    GELDANAMYCIN ATTENUATES OTOTOXICITY CAUSED BY GENTAMICIN  
 IN THE ORGAN OF CORTI EXPLANTS  
Szczepek AJ, Yu Y, Haupt H, Mazurek B
- 10:00-10:15    O 26    PROTECTIVE EFFECT OF X-LINKED INHIBITOR OF APOPTOSIS

- PROTEIN AGAINST NOISE-INDUCED COCHLEAR LESIONS IN C57 MICE  
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- 10:15-10:30 O 27 CLINICAL TRIAL FOR LOCAL IGF-1 TREATMENT FOR ACUTE SENSORINEURAL HEARING LOSS: FROM THE BENCH TO THE CLINIC  
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- 10:30-11:15 Break and poster viewing
- 11:15-12:30 **Session 6: Molecular Biology**
- 11:15-11:30 O 28 NOTCH SIGNALING SPECIFIES PROSENSORY REGIONS IN THE INNER EAR  
Yamamoto N, Chang W, Ito J, Kelley MW
- 11:30-11:45 O 29 THE MOLECULAR MECHANISM OF DFN28 DEAFNESS  
Kitajiri S, Sakamoto T, Belyantseva IA, Goodyear RJ, Stepanyan R, Fujiwara I, Bird JE, Riazuddin Sa, Riazuddin Sh, Ahmed ZM, Hinshaw JE, Sellers JR, Bartles JR, Hammer JA, Richardson GP, Griffith AJ, Frolenkov GI, Friedman TB
- 11:45-12:00 O 30 ATP8B1 IS INVOLVED IN THE FUNCTION OF HEARING  
Peters TA, Stapelbroek JM, Beynon AJ, Bull L, Oude Elferink RP, Van Zanten BA, Klomp LWJ, Houwen RHJ
- 12:00-12:15 O 31 PRESTIN AS A BICARBONATE-CHLORIDE TRANSPORTER  
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- 12:15-12:30 O 32 HSF1 IS ESSENTIAL FOR THE MAINTENANCE OF INNER EAR FUNCTION  
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- 12:30-14:00 Lunch and poster viewing
- 14:00-15:15 **Session 7: Transduction and Neurotransmission (Part 2)**
- 14:00-14:15 O 33 FATE OF MAMMALIAN HAIR CELLS AND STEREOCILIA AFTER LOSS OF THE STEREOCILIA  
Jia SP, He DZ
- 14:15-14:30 O 34 REGULATION OF OUTWARD  $K_v$  CURRENTS BY EXTRACELLULAR CHLORIDE IN THE OUTER HAIR CELL  
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- 14:30-14:45 O 35 RATE-LEVEL FUNCTIONS AT DIFFERENT TEMPORAL LOCATIONS IN

THE CHICK COCHLEAR NERVE ADAPTATION CURVE

Saunders JC, Lazaridis E, Avissar M

- 14:45-15:00 O 36 OTOFERLIN: A SYNAPTOTAGMIN-LIKE CALCIUM SENSOR?  
Reisinger E, Brigande J, Bulankina A, Koch M, Kügler S, Brose N, Moser T
- 15:00-15:15 O 37 OTOFERLIN INTERACTS WITH MYOSIN VI: IMPLICATIONS FOR THE BASOLATERAL SYNAPTIC STRUCTURE OF THE INNER HAIR CELL  
Heidrych P, Kuhn S, Zimmermann U, Franz C, Engel J, Dunker S, Pusch CM, Ruth P, Pfister M, Marcotti W, Blin N, Knipper M
- 15:15-16:00 Break and poster viewing
- 16:00-17:00 IEB Business Meeting
- 17:30-19:00 Boat trip through the canals of Utrecht (drinks are served on board)
- 19:00-22:00 Conference dinner at the "Sporwegmuseum"

**Tuesday 15<sup>th</sup> September**

- 09:00-10:30 **Session 8: Gene and Stem Cell Therapy**
- 09:00-09:15 O 38 LOCALIZED NEUROTROPHIN GENE THERAPY FOR CONTROLLING AUDITORY NERVE REGENERATION AFTER HEARING LOSS  
Richardson RT, Wise AK, Hume C, Flynn BO, Jeelall Y, Suhr C, Sgro B, O'Leary SJ, Shepherd RK
- 09:15-09:30 O 39 REGENERATION OF NERVE FIBERS INTO THE DEAF EAR  
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- 09:30-09:45 O 40 SECRETION OF GROWTH FACTORS AND CHEMOKINES BY ADIPOSE TISSUE-DERIVED STROMAL CELLS  
Yoshida A, Nakagawa T, Kitajiri S, Inaoka T, Kita T, Ito J
- 09:45-10:00 O 41 A NOVEL STEM CELL FOR AUDITORY NEURON REGENERATION  
El Seady R, Huisman MA, Frijns JHM
- 10:00-10:15 O 42 NEURAL STEM CELLS FROM THE COCHLEAR NUCLEUS  
Rak K, Wasielewski N, Radeloff A, Hagen R, Jablonka S, Pühringer D, Sendtner M, Mlynski R
- 10:15-10:30 O 43 DIFFERENTIATION OF HUMAN EMBRYONIC AND HUMAN INDUCED PLURIPOTENT STEM CELLS ALONG THE OTIC LINEAGE

Masaki K, Starlinger V, Byers B, Nguyen H, Heller S

- 10:30-11:15 Break
- 11:15-12:15 **Session 9: Cochlear Protection after Implantation**
- 11:15-11:30 O 44 INNER EAR PROTECTION AFTER COCHLEAR IMPLANTATION  
Eastwood H, Chang A, O'Leary SJ
- 11:30-11:45 O 45 DEXAMETHASONE THERAPY AND METHODS TO CONTROL THE EFFECTS OF TRAUMA IN COCHLEAR IMPLANT DESIGN  
Jolly C, Mirzadeh H, Kiefer J, Martini A, Truy E, Ibrahim H, Garnham C
- 11:45-12:00 O 46 COCHLEAR IMPLANT ELECTRODE ARRAY-ELUTED DEXAMETHASONE CONSERVES HEARING: GENETIC AND MOLECULAR MECHANISMS  
Van De Water TR, Dinh CT, Haake S, Eshraghi AA, Angeli S, Telischi FF, Balkany TJ
- 12:00-12:15 O 47 EVALUATION OF THE ELUTION OF DEXAMETHASONE FROM THE SILICONE OF THE ELECTRODE ARRAY: PRELIMINARY SAFETY STUDIES  
Magosso S, Astolfi L, Giordano P, Pannella M, Sathiyaseelan T, Simoni E, Cascella V, Giari L, Hatzopoulos S, Prosser S, Braun S, Tillein J, Martini A
- 12:15-12:30 Closing remarks
- 12:30 END OF IEB 2009

## POSTER PRESENTATIONS

(in alphabetical order)

A POSSIBLE INVOLVEMENT OF DOPAMINE IN MODULATION OF SYNAPTIC TRANSMISSION IN THE FROG SEMICIRCULAR CANAL (P 01)

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PREVENTIVE EFFECTS OF THYMUS GRAFT ON AGE-RELATED HEARING LOSS (P 12)

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PROTECTION OF NEURAL ELEMENTS AND SENSORY HAIR CELLS IN THE GUINEA PIG COCHLEA WITH CHRONIC INTRASCALAR ADMINISTRATION OF GLIA CELL-DERIVED NEUROTROPHIC FACTOR (GDNF) (P 32)

Bitsche M, Glueckert R, Miller J, Altschuler R, Prieskorn D, Schrott-Fischer A

COCHLEAR TARGETS OF HYPERBRANCHED POLY-L-LYSINE AFTER APPLICATION ON THE ROUND WINDOW MEMBRANE IN THE MOUSE AND RAT (P 31)

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SPATIOTEMPORAL EXPRESSION OF GLYCINE RECEPTORS IN THE MURINE COCHLEA (P 40)

Buerbank S, Brandt N, Engel J, Becker K, Becker CM, Schulze H, Schick B, Knipper M, Dlugaiczky J

NOISE EXPOSURE DURING EARLY DEVELOPMENT MODIFIES THE AUDITORY STARTLE REFLEX IN ADULT RATS (P 42)

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PREVALENCE OF *GJB2* MUTATIONS IN THE PORTUGUESE POPULATION (P 50)

Chora J, Rodrigues R, Trincão C, Simões-Teixeira H, Matos, T, Fialho G, Caria H

THE EFFICIENCY OF A SINGLE INJECTION OR CONTINUOUS DELIVERY OF NANOPARTICLES TO THE MIDDLE EAR USING AN ALZET MICRO-OSMOTIC PUMP (P 34)

Chumak T, Buckiova D, Popelář J, Syka J

UPTAKE AND TOXICITY TESTS OF HYPERBRANCHED POLY-L-LYSINE ON PC12 AND OCK-3 CELLS (P 57)

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GENERATION OF A TAMOXIFEN-INDUCIBLE HAIR CELL-SPECIFIC TR- $\beta$ 1 KNOCKOUT MOUSE MODEL (P 38)

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NOVEL INTERACTION PARTNERS OF OTOFERLIN (P 18)

Duncker SV, Heidrych P, Zimmermann U, Bress A, Pfister M, Ruth P, Blin N, Knipper M

SALICYLATES DOWNREGULATE AQP-6 EXPRESSION IN SENSORY EPITHELIA OF THE INNER EAR (P 45)

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NEW TOOLS IN HEARING RESEARCH: INDUCIBLE CONDITIONAL HAIR CELL-SPECIFIC KNOCKOUT AND KNOCKIN MOUSE MODELS AND WHAT WE CAN LEARN FROM THEM (P 39)

Franz C, Dettling J, Kuhn S, Brandt N, Zimmermann U, Winter H, Rüttiger L, Engel J, Hirt B, Marcotti W, Flamant F, Zuo J, Blin N, Knipper M

MULTIFUNCTIONAL NANOPARTICLE VIZUALISATION AT THE LIGHT AND ELECTRON MICROSCOPIC LEVEL: METHODS FOR FINDING THE NEEDLE IN THE HAYSTACK (P 29)

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SPIRAL GANGLION CELL SURVIVAL AFTER ROUND WINDOW APPLICATION OF GELFOAM SOAKED WITH BRAIN-DERIVED NEUROTROPHIC FACTOR (P 21)

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THE EFFECT OF MEMANTINE ON EXPERIMENTALLY GENTAMICIN-INDUCED VESTIBULOTOXICITY IN GUINEA PIG (P 04)

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<sup>18</sup>F-FDG SMALL-ANIMAL PET STUDY AND NEUROANATOMICAL TRACING ON THE VESTIBULAR SYSTEM IN RATS (P 17)

Lange E, Best C, Stier U, Dellani PR, Buchholz HG, Bausbacher N, Schröder H, Dieterich M, Schreckenberger M, Reuss S

P2Y4 RECEPTOR-MEDIATED REGULATION OF AMILORIDE-SENSITIVE SODIUM TRANSPORT IN THE REISSNER'S MEMBRANE (P 19)

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UNIQUE PROTEIN EXPRESSION IN THE HUMAN SPIRAL GANGLION: DO THEY PLAY A ROLE FOR CELL INTERACTION AND NEURON SURVIVAL IN MAN? (P 06)

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THE ULTRASTRUCTURAL DISTRIBUTION OF PRESTIN IN RAT COCHLEAR OUTER HAIR CELLS (P 51)

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PREVENTION OF CISPLATIN OTOTOXICITY CAN BE DONE BY INHIBITION OF DNA DAMAGE IN COCHLEA CELLS (P 10)

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THE COLLAGEN RECEPTOR DDR1 CO-LOCALIZES WITH THE NON-MUSCLE MYOSIN IIA IN MICE INNER EAR (P 08)

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NOISE-INDUCED HEARING LOSS MICE MODELS: TOWARDS STANDARDIZATION OF EXPOSURE CONDITIONS (P 35)  
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PATTERNS OF AUDITORY AND VISUAL CORTICAL ACTIVITIES IN EXPERIMENTAL DEAFNESS: AN IMMUNOHISTOCHEMICAL STUDY (P 03)  
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BIOCHEMISTRY OF OTOFERLIN C2F AND ITS *PACHANGA* MUTANT FORM (P 48)  
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