

## Preliminary Program 2021 congress

### Audiology evolutions/progress since 1950

Joint organization of the audiology societies of The Netherlands (NVA, 70 years) and Belgium (B-Audio, 10 years), in collaboration with the Belgian ENT-society (B-ORL)

Antwerp, 17-18 December 2021

Programme

Friday 17 December 2021

9:30-10:50	From 1950 till now
10:50-11:20	Coffee break
11:20-13:00	Audiology in its broadest sense, oral contributions I
13:00-14:00	Lunch
14:00-14:30	Poster discussions I
14:30-15:30	Screening and rehab
15:30-16:00	Coffee break
16:00-18:00	Now and then: Looking into the future
20:30-20:45	Book presentation
20:45-21:30	Platinum lecture

Saturday 18 December 2021

9:00-10:20	Practicalities in Hearing Care
10:20-10:50	Coffee break
10:50-12:15	Audiology in its broadest sense, oral contributions II
12:15-12:30	General Assembly B-Audio
12:30-13:00	Poster discussions II
13:00-14:00	Lunch
14:00-14:40	Audiology in its broadest sense, oral contributions III
14:40-16:00	New avenues/possibilities in hearing care



Friday December 17th

9:30-10:50 **From 1950 till now**

Chairs: Martijn Toll (Rotterdam) & Jan Wouters (Leuven)

- intro and highlight a number of aspects, 5m  
Martijn Toll (Rotterdam)
- History and future of speech intelligibility tests, 25m  
Cas Smits (Amsterdam)
- Evolutions in Middle Ear and bone conduction hearing implants, 25m  
Ad Snik (Nijmegen)
- The venerable Cross-Check Principle rejuvenated in the era of modern objective auditory evaluation techniques, 25m  
Paul Deltenre (Brussels)

10:50-11:20 coffee break

11:20-13:00 **Audiology in its broadest sense**; Oral contributions I

Chairs: Martin Stollman (Maastricht) & Axelle Calcus (Brussels)

100m = 8speakers oral contributions selected from abstracts

13:00-14:00 Lunch

14:00-14:30 Poster discussions I

14:30-15:30 **Vestibular Screening and rehabilitation**

Chairs: Leen Maes (Gent) & Josine Widdershoven (Maastricht)

- The impact of a vestibular dysfunction on the development of children and the importance of early vestibular screening. 40m  
Leen Maes (Gent), Josine Widdershoven, Skadi van der Meer (Maastricht)
- The vestibular implant: towards a clinical device 20m  
Bernd Vermorken (Maastricht)

15:30-16:00 coffee break

16:00-18:00 **Now and then: Looking into the future**

Chairs: Rudi Kuhweide (Brugge) & Rob Drullman (Amersfoort)

- Regeneration and biology in the inner ear, 25m  
Brigitte Malgrange (Liège)
- Future Applications of Art Int Technology for Hearing Devices, 25m  
Bert de Vries (Eindhoven)
- Individualized and self-adjusting hearing devices, running speech and intelligibility and closed loop fitting, 25m  
Tom Francart (Leuven)
- **Now and then: Looking into the future** 45m moderator Martin Stollman  
Naima Deggouj (Brussel), Wouter Dreschler (Amsterdam), Jan Wouters (Leuven), Ad Snik (Nijmegen), Pim Van Dijk (Groningen), Inge Dhooge (Gent)

- 20:30-20:45 Book presentation, 15m "Horen, een mysterie" Reinier Plomp  
 20:45-21:30 Platinum lecture, 45m Tom ter Bogt (Utrecht) intro: Bas Franck
- Waarom luisteren mensen naar muziek? Waarom moet het zo luid?

Saturday December 18th

9:00-10:20 **Practicalities in Hearing Care**

Chair: Mark Laureyns (Antwerp) & Louise Straatman (Utrecht)

- intro to start the day, 5m Jan Wouters (Leuven)
- Leaving a Lasting Impression: protocol & guidelines for audiologists and ENTs when impression material penetrates the middle ear, 50min Round Table  
Jerome Waterval (Maastricht), Tom Crins (Hasselt)
- COSI Hearing Care: Evaluation of the use of COSI after 7 years implementation in the Belgian Hearing Care Reimbursement system, effectively setting goals, 30m  
Paul Van Doren (Antwerp - Brussels)

10:20-10:50 coffee break

10:50-12:15 **Audiology in its broadest sense**: Oral contributions II

Chairs: Allart Knoop (Rotterdam) & Astrid van Wieringen (Leuven)

85m = 7 speakersx12m oral contributions selected from abstracts

12:15-12:30 General Assembly B-Audio

12:30-13:00 Poster discussions II

13:00-14:00 Lunch

14:00-14:40 **Audiology in its broadest sense**: Oral contributions III

Chairs: Allart Knoop (Rotterdam) & Astrid van Wieringen (Leuven)

40m = 3speakersx12m oral contributions selected from abstracts

14:40-16:00 **New avenues/possibilities in hearing care**

Chairs: Patrick Verheyden (Brussels) & Patrick Briennesse Amsterdam)

- The Burnout Assessment Tool (BAT ), and the possible relation between disabilities, hearing loss and burnout. 20m  
Steffie Desart (Mechelen)
- Study on the relation of hearing loss, hearing care and pre-burn-out signals and overall functionality. 20m  
Mark Laureyns (Antwerp)
- Challenges in Vocational Audiology: for listeners with impaired hearing in the working place and for audiology as well. 20m  
Theo Goverts (Amsterdam)
- Efficacy of audiological rehabilitation: a RCT trial in persons with hearing instruments. 20m  
Astrid van Wieringen (Leuven)
- Closing  
Jan Wouters (Leuven)

Details oral and poster contributions

11:20-13:00 Audiology in its broadest sense      Oral contributions I  
8speakersx12m oral contributions selected from abstracts

14:00-14:30 Poster Discussions I

10:50-12:15 Audiology in its broadest sense      Oral contributions II  
7speakersx12m oral contributions selected from abstracts

12:30-13:00 Poster Discussions II

14:00-14:40 Audiology in its broadest sense      Oral contributions III  
3speakersx12m oral contributions selected from abstracts

14:00-14:30 Poster discussions

### **Oral Contributions I: Speech Tests, Auditory cortex**

Speech perception in modulated noise is associated with the ability to perceive time-compressed speech

Robin Gransier, Astrid van Wieringen, Jan Wouters  
Leuven

The usability of TTS systems for creating audiological speech material

Sigrid Polspoel, Sophia E. Kramer, Bas Van Dijk, Cas Smits  
Amsterdam

Objectively measuring speech understanding in normal-hearing and hearing-impaired children

Tilde Van Hirtum, Ben Somers, Tom Francart  
Leuven

Topographical representation of sound frequency and amplitude modulation rate in the auditory cortex

Shahin Safazadeh, Marc Thioux, Gijs Hoskam, Remco Renken, Dave Langers, Pim van Dijk  
Groningen

Development of attentive tracking of sound sources

Elena Benocci, Manon Frayssinet, & Axelle Calcus  
Brussels ULB

Gray Matter Changes Associated with Hyperacusis

Punitkumar Makani, Marc Thioux, Kris Boyen, Elouise Koops, Sonja Pyott, Pim van Dijk  
Groningen

Children cortical processing of hierarchical linguistic structures in cocktail-party situation

NIESEN Maxime, BOURGUIGNON Mathieu, BERTELS Julie, VANDER GHINST Marc, WENS Vincent, HASSID Sergio, GOLDMAN Serge, DE TIEGE Xavier  
Brussels ULB

Global data on ear and hearing screening in people with an intellectual disability.

Melina Willems, Frederic Acke, Gerlant van Berlaer, Leen Maes, Laura Leyssens, Beth Lannon, Bjoern Koehler, Luc Marks  
Gent

## **Oral Contributions II: Audiology in practice, Vestibular Tests**

Exploring neural entrainment to musical rhythms in cochlear implant users : a frequency-tagging approach

F.Rosenzweig, C. Lenoir, C.Huart, N.Deggouj, S.Nozaradan  
UCL

Language-Independent Hearing Screening: Towards an optimal screening protocol at school-entry

Elien Van den Borre, Sam Denys, Astrid van Wieringen, Jan Wouters  
Leuven

NAL-NL2 prescriptive targets for bone conduction devices with an adaptation to device constraints in the low frequencies

Martijn Toll and Gertjan Dingemanse  
Rotterdam

Sound localization with bilateral bone conduction devices

Coosje J I Caspers, Arno M Janssen, M J H Agterberg, Cor W R J Cremers, Myrthe K S Hol, Arjan J Bosman  
Nijmegen

Loudness perception in hearing aid rehabilitation

Maarten van Beurden, Monique Boymans, Mirjam van Geleuken, Dirk Oetting, Birger Kollmeier, Wouter A. Dreschler

Amsterdam

Vestibular Infant Screening (VIS)-Flanders: sensitivity and refinement of the vestibular screening protocol for hearing-impaired children in Flanders

Sarie Martens, Ingeborg Dhooge, Cleo Dhondt, Marieke Sucaet, Saartje Vanaudenaerde, Lotte Rombaut, Leen Maes

Gent

A 5-year prospective study of vestibular loss in children with congenital cytomegalovirus infection

Dhondt C, Maes L, Martens S, Vanaudenaerde S, Rombaut L, Van Hoecke H, De Leenheer E, Dhooge I

Gent

### **Oral Contributions III: Varia**

Cochlear synaptopathy in the ageing population

Van Der Biest H, Keppler H, Dhooge I, Keshishzadeh S, Verhulst S

Gent

Cochlin Deficiency Protects against Noise-Induced Hearing Loss in Aged Mice

Dorien Verdoodt, Noa Peeleman, Krystyna Szewczyk, Guy Van Camp, Peter Ponsaerts, Vincent Van Rompaey

Antwerp

Cognition Within Audiological Practice: The Knowledge, Awareness, And Experience Of Audiologists

Kestens Katrien, Degeest Sofie, Keppler Hannah

Gent

Posters (35=13+7+15)

2BALANCE: Cognitive-Motor Dual-Tasking In Persons With Vestibular Dysfunction  
Maya Danneels, Ruth Van Hecke, Laura Leyssens, Dirk Cambier, Raymond van de Berg, Vincent Van Rompaey and Leen Maes  
Gent

Speech envelope enhancement as an intervention for dyslexia: the impact on neural tracking of rise times  
Shauni Van Herck, Femke Vanden Bempt, Maria Economou, Jolijn Vanderauwera, Toivo Glatz, Maaïke Vandermosten , Pol Ghesquière and Jan Wouters  
Leuven

Auditory skills of children with single-sided deafness and a cochlear implant  
Tine Arras , Birgit Philips, Christian Desloovere, Jan Wouters, Astrid van Wieringen  
Leuven

A Case-Controlled Study: Cognitive Performances in Vestibular-impaired School-aged Children  
Ruth Van Hecke, Frederik JA Deconinck, Ingeborg Dhooge, Hilde Van Waelvelde, Jan Wiersema, Leen Maes  
Gent

BONE VERSUS AIR CONDUCTION: INTRACOCHELEAR OCT VIBROMETRY AND PSYCHOACOUSTIC TESTING  
Lore Kerkhofs, Anastasiya Starovoyt, Tristan Putzeys, Nicolas Verhaert  
Leuven

Adapting AVATAR to research audio-visual integration in children  
Lyan Porto, Jan Wouters, Astrid van Wieringen  
Leuven

Neural generators underlying binaural integration in normal hearing children  
Silvana Huertas-Penen, Robin Gransier, Jan Wouters, Astrid van Wieringen  
Leuven

Assessing the clinical value of objective and patient-reported audio-vestibular outcome measures in the risk estimation of systemic cobalt toxicity for patients with a metal-on-metal hip implant  
Leyssens L, Vinck B, Van Der Straeten C, Dhooge I, Wuyts FL, Winnock de Grave P, Bataillie F, Van Melkebeek J, De Smet K, Van Hecke R, Danneels M, Maes L  
Gent



Resource allocation in a posture-listening dual-task for normal-hearing young and middle-aged adults

Mira Van Wilderode, Nathan Van Humbeeck, Ralf Krampe, Astrid van Wieringen  
Leuven

Evaluating the Revised Work Rehabilitation Questionnaire in Cochlear Implant users

Ellen Andries, Arthur Lorens, Piotr Henryk Skarżyński, Henryk Skarżyński, Miryam Calvino, Javier Gavilán, Luis Lassaletta, Dayse Tavora-Vieira, Aanand Acharya, Anja Kurz, Rudolf Hagen, Paul Van de Heyning, Vincent Van Rompaey, Griet Mertens  
Gent

Investigating the utility of auditory steady-state responses for the objective determination of threshold-levels for clinical stimulation settings

Elise Verwaerde, Robin Gransier, Jan Wouters  
Leuven

Evolution of speech perception performance after cochlear implantation and its relation to rehabilitation intensity

Lieselot Van Deun, Ann Dierckx, Ellen Boon, Sara Magits, Sam Denys, Christian Desloovere, Nicolas Verhaert  
Leuven

Cortical auditory evoked potentials and their relevance to cognitive impairment: a scoping review

Hanne Gommeren; Joyce Bosmansa; Emilie Cardon; Griet Mertens; Patrick Crasa; Sebastiaan Engelborghs; Angelique Van Ombergen; Annick Gilles; Marc Lammers; Vincent Van Rompaey  
Antwerp

Communicating Emotion: Vocal Production of Linguistic and Emotional Prosody in Children With Cochlear Implants, Hearing Aids, and Normal Hearing

Tjeerd J. de Jong, Marieke Hakkesteegt, Marc P. van der Schroeff, Jantien L. Vroegop  
Rotterdam

Translation and validation of the Hearing Environments And Reflection on Quality of Life (HEAR-QL) Questionnaire for preschool children in Dutch

C. Batthyany, M. van der Schroeff, J. Vroegop  
Rotterdam

Determinants of hearing-specific quality of life in children and adolescents with hearing aids or cochlear implants

C. Batthyany, M. van der Schroeff, J. Vroegop  
Rotterdam

The Clinical Follow Up of Psychosocial Difficulties in Children With Hearing Loss: One Year of Patient Reports

Tjeerd J. de Jong, Marc P. van der Schroeff, Jantien L. Vroegop  
Rotterdam

Subtyping Tinnitus by the Relation between Minimum Masking Levels and Hearing Thresholds

Jose L. Santacruz, Emile de Kleine and Pim van Dijk  
Groningen

Improving hearing device fitting with virtual reality

Maartje M. E. Hendrikse, André Goedegebure  
Rotterdam

Survival of LGR5 positive supporting cells following ototoxic trauma in the adult mouse cochlea

Natalia Smith-Cortinez, Rana Yadak, Ferry G.J. Hendriksen, Eefje Sanders, Dyan Ramekers, Robert J. Stokroos, Huib Versnel, Louise V. Straatman  
Utrecht

+ 15 Posters of Audiology students

Sofie Keyzers (KU Leuven)

Het effect van aandachtswisselingen en sprekerpositie op auditieve aandachtsdetectie

Liesbeth Vander Velde (KU Leuven)

Evaluation of Children's Listening and Processing Skills, een oudervragenlijst voor kinderen met taal- en verwerkingsproblemen (Voortzetting van de normering voor Vlaamse kinderen)

Anja Taevernier, Mylène Van Elslander (UGent)

Auditief, cognitief en psychosociaal functioneren bij personen met chronische tinnitus en/of chronische pijn.

Helena De Jongh (UGent)

Is een vestibulaire stoornis een risicofactor voor het verhoogd valrisico bij personen met de ziekte van Parkinson.

Louise Van Goylen (UGent)

Het effect van het auditief-cognitief functioneren op het hoortoestelvoordeel.

Odile Henrion (Haute Ecole de Léonard de Vinci, Brussels)

État des lieux des pratiques de l'audiologie clinique et prothétique en Belgique francophone

Quentin Sabiron (Haute Ecole de Léonard de Vinci, Brussels)

L'efficacité de la Neuromodulation Electrique Transcrânienne (HD t-DCS) dans le traitement des acouphènes

Laura Courtens (Arteveldehogeschool, Gent)

Occupational Noise Induced Hearing Loss : Gedragsverandering als preventiestrategie

Yoni Janssens (Arteveldehogeschool, Gent)

Nieuwe genetische inzichten binnen audiologie

Hanne Deconinck (Thomas More Antwerpen)

Evaluation of a new self-test version of the Acceptable Noise Level (ANL) test

Lineke Smit (Thomas More Antwerpen)

The impact of environmental factors of the ICF on tinnitus: a systematic review

Valerie Van Genechten (Thomas More Antwerpen)

The Thomas More CVC lists for speech self-test audiometry in noise: response time to self-sampling as a measure of listening effort

Tibor Pokuta (HOGent)

Onderzoek naar het gebruik van gehoorbescherming bij (semi)professionele muzikanten in de lichte muziek in Vlaanderen & Brussel

Sarah Buysschaert en Lisa Catteuw (VIVES Brugge)

Use of the ABR and speech-in-noise test as a diagnostic tool for Hidden Hearing Loss - a review

Hélène Van Neste (VIVES Brugge)

Relevance of ocular vestibular evoked myogenic potentials in patients with BPPV - a review