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DIAGNOSTIC AND
THERAPEUTIC SOLUTIONS
FOR DEAFNESS AND BALANCE
DISORDERS:
Are we there yet?



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CONFIRMED SPEAKERS

Sumit AGRAWAL, Canada
François BERGERON, Canada
Mike BOWL, UK
Barbara CANLON, Sweden
Wade CHIEN, United States
Gabriel CORFAS, United States
Alain DABDOUB, France
Guodong FENG, China
Anne-Lise GIRAUD, France
Nils GUINAND, Switzerland
Feng GUODONG, China
Anil K. LALWANI, United States

Thomas LENARZ, Germany
Natalie LOUNDON, France
Thierry MOM, France
Isabelle MOSNIER, France
Yann NGUYEN, France
Anne SCHILDER, UK
Pascal SENN, Switzerland
Hinrich STAECKER, United States
Hung THAI VAN, France
Shin-ichi USAMI, Japan
Vincent VAN ROMPAEY, Belgium
Christophe VINCENT, France
Hao WU, China

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Prof. Hinrich Staecker, Kansas City, KA, USA – Prof. Thomas Lenarz, Hannover, Germany – Prof. Natalie Loundon, Paris, France –
Dr. Marie-José Lecomte, Paris, France

TOPICS

· Innovation in Audiology · Advancing Genetic Testing and Disease Phenotyping in Hearing Loss
· Breakthrough Therapies for Hearing Loss · From Auditory Performance to Hearing Preservation · Advancing Prevention, Diagnosis, and Management · Advances in Genetic and Molecular Approaches to Hearing Loss Treatment · Innovations in Robotic-Assisted Inner Ear Surgery: Cochlear Implants and Beyond · Emerging Therapies for Hearing Loss: Neurotrophic Pathways, Oxidative Stress & Cochlear Modeling · Therapeutic Strategies for Hearing and Balance Disorders: From Gene Therapy to Vestibular Implants · Understanding Inner ear · Breakthrough Therapies for Hearing Loss · Industry symposium







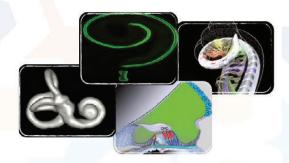
Organize the



CEMORL International ENT-HNS Conferences

With the participation of:





DIAGNOSTIC AND THERAPEUTIC SOLUTIONS FOR DEAFNESS AND BALANCE DISORDERS :

Are we there yet?







Welcome from the President

Dear Colleagues,

On behalf of the organizing committee, I'm pleased to welcome you to Marrakech and sincerely thank all the researchers, postdoctoral fellows, engineers, clinicians, industry partners, and sponsors for joining us.

Your ongoing support of ISIET since 2017 has played a key role in connecting basic science with clinical research, leading to new approaches



in diagnosing and treating hearing and balance disorders. The ongoing DFNB9 clinical trials, led by teams from the ISIET community show just how impactful such connection can be.

I hope this 4th symposium will help us make even more progress.

This year, we are bigger than ever, with nearly 300 participants from 17 countries. It's a great chance for all of us, clinical researchers and industry partners, to share ideas, start new collaborations, and plan future projects together. You will have many opportunities to connect since most attendees will be here for the entire event, so you are likely to run into each other over breakfast, lunch, coffee breaks, or even at the hotel restaurant!

I wish you all a successful and productive meeting.

Warm regards,

Said Safieddine President, ISIET





Thursday, April 24, 2025

17h30 - 19h30: Registration & Welcome

Day 1, Friday April 25, 2025

07h30-08h30 Registration

08h00-08h10 Welcome addresses / Introduction

Abdelaziz RAJI and Saaid SAFIEDDINE

08h10-08h30 **Opening lecture**

Anne-Lise GIRAUD, Institut de l'Audition, Institut Pasteur,

Paris.

Brain-Computer Interfaces for Hearing and Speech.

08h30-10h00 SESSION I

Advancing Genetic Testing and Disease

Phenotyping in Hearing Loss

Chairs: Natalie LOUNDON, Michael R. BOWL,

Naima DEGGOUJ.

08h30-08h45 Ralyath BALOGOUN, AP-HP Necker - Enfants malades, Paris.

Unilateral, Bilateral Symmetric or Asymmetric Isolated

Hearing Loss in Patients with Heterozygous KITLG

Variants.

08h45-09h00 Sandrine MARLIN, CRMR, AP-HP Necker -Enfants malades,

Paris.

Genetics in Neonatal Hearing.

09h00-09h10 Laurence JONARD, AP-HP Necker - Enfants malades, Paris.

A French Multicenter Cohort of Patients with Heterozygous GJB2 Pathogenic Variations.

09h10-09h25 Michael R. BOWL, UCL, London.

The Enigmatic Cdh23ahl Allele.





09h25-09h45: Sandrine MARLIN, CRMR, AP-HP Necker -Enfants malades,

Paris.

Whole Genome Sequencing of 400 Families with Early-Onset Hearing Loss: Insights from the French Reference

Center.

09h45-10h00: Elmostapha SALMAN, Mohammed VI University Hospital,

Marrakech.

The Frequency of the GJB2 c.35delG Mutation in Patients

with Non-Syndromic Hearing Loss: First series of Mohammed VI University Hospital of Marrakech.

10h00 - 10h30

Coffee break & Posters visit



10h30-11h30 SESSION II

From Auditory Performance to Hearing

Preservation

Chairs: Isabelle MOSNIER, Christophe VINCENT,

Haddou AMMAR.

10h30-10h45 Isabelle MOSNIER, AP-HP Pitié-Salpêtrière, Sorbonne

University, Paris.

Auditory Outcomes in Adult Cochlear Implant Recipients.

10h45-11h00 Prem RANJAN, MED-EL Insbruck.

Hearing Preservation and EAS.

11h00-11h20 Arnaud COEZ, Audition Santé, Institut de l'Audition-CERIAH,

Paris.

Clinical Practice in Audiology: Which Data Should Be Collected in 2025 to Parameterize a Medical Device in

Deafness Rehabilitation?

11h20-11h30 Abdelaziz RAJI, Mohammed VI University Hospital,

Marrakech.

Hearing Preservation During Cochlear Implantation:

The Value of Intraoperative Monitoring by

Electrocochleography.





11h30 - 12h15

MEDEL Symposium



Chairmen: Hinrich STAECKER and Abdelaziz RAJI

Michel BELIAEFF

MED-EL the R&D Driven company.

Sumit AGRAWAL

Synchrotron Imaging of the Cochlea and Specificity of the Apex.

Alain DABDOUB

Non-Invasive Delivery to the Inner Ear Using Focused Ultrasound.

Philippe LEFEBVRE

Otodrive Soft Surgery to Improve Electrode Neural Interface.

Q&A Session

12h15-14h00

LUNCH break and Posters visit





Picture of the 2025 ISIET Symposium attendees will be taken on Friday 25th, just before Lunch





14h00-15h35 SESSION III

Advances in Genetic and Molecular Approaches to Hearing Loss Treatment

Chairs: Gabriel CORFAS, Vincent VAN ROMPAEY, Leila ESSAKALI.

14h00-14h20 Alain DABDOUB, Temerty Faculty of Medicine, University of

Toronto, Toronto.

Circulating Inner Ear Biomarkers: Advancing Rapid Detection with an Electrochemical Immuno-Biosensor.

14h20-14h40 Wade CHIEN, Johns Hopkins School of Medicine, Baltimore.

Application of Genome Editing to a Mouse Model of

DFNA20.

14h40-15h00 Vincent VAN ROMPAEY, University of Antwerp, Antwerp.

Functional Outcome in a Rationally Designed

Genomically Humanized Mouse Model for Dominantly

Inherited Hearing Loss DFNA9.

15h00-15h20 Gabriel CORFAS, Kresge Hearing Research Institute, Ann

Arbor.

Identifying the Mechanisms and Potential New Treatments for Noise-Induced Hearing Loss Using

Metabolomics and Lipidomics.

15h20-15h35 Arnaud NORENA, CNRS, Aix Marseille University, Marseille.

Combining Sound Therapy and Cardiac Coherence for the Management of Chronic Pain and Tinnitus in Canadian

Veterans.





15h35 - 16h05

Cochlear Symposium

Inspired by Lifetime of Hearing Performance.

Bart VOLCKAERTS, (Vice President Clinical Affairs & Market Access EMEA).



16h05 - 16h30

Coffee break & Posters visit



16h30-17h25 SESSION IV

Innovation in Audiology

Chairs: Ghizlene LAHLOU, Thierry MOM,

Youssef ROCHDI.

16h30-16h45 Hung THAI VAN, CHU Lyon, Institut de l'Audition, Paris.

Testing the Ascending and Descending Auditory Pathways

in Subjects with Neurodevelopmental Disorders.

16h45-16h55 Perrine MORVAN, CHU Lyon, Institut de l'Audition, Paris.

Beyond the Audiogram: Using PROMs and AI Modelling to Characterize Age and Sex-Specific Hearing Loss Needs in

a Nationwide Study.

16h55-17h10 Arnaud NORENA, CNRS, Aix Marseille University, Marseille.

The Putative Contribution of the Middle Ear and Trigeminal System to Tinnitus and Hyperacusis.

17h10-17h25 Massimiliano ACRI, Clinical Audiologist Centro Per Acufeni e

Disturbi del Sonno, Verona.

TRT (Tinnitus Retraining Therapy): The Selection Criteria

for a Good Result.





17h25-18h30 OFFICIAL INAUGURATION

Chairs: Saaid SAFIEDDINE, Abdelaziz RAJI

17h25-17h30 Saaid SAFIEDDINE, ISIET President.

17h30-17h35 Hussain Abdul Rahman Al RAND, President of the IFOS.

17h35-17h45 Karim SKALLI, NASMAA program of the Lalla ASMAA

Foundation for deaf Children.

17h45-18h30 Key note lecture: François BERGERON, Laval University,

Québec.

Diagnostic and Therapeutic Solutions for Hearing Loss:

Are We There Yet in Northern North-America?

20h00 Dinner for ISIET Founding members & guests







Therapeutic Strategies for Hearing and Balance Disorders: From Gene Therapy to Vestibular Implants

Chairs: Anne-SCHILDER, Hinrich STAECKER, Fouad BENARIBA.

08h00-08h15 Ghizlene LAHLOU, Institut de l'Audition, Institut Pasteur, AP-

HP, Paris.

Cell Tropism of Adeno-Associated Viruses Within the Mouse Inner Ear In Vivo: From Embryonic to Adult Stages.

08h15-08h35 Nils GUINAND, Clinical Neurosciences, Geneva University

Hospital., Geneva.

Baseline Electrical Stimulation Can Improve Function in Patients Implanted with Vestibulo-Cochlear Implants.

08h35-08h55 Pascal SENN, Geneva University Hospitals, Geneva.

From Regeneration of Auditory Neurons to Drug

Screening.

08h55-09h15 Barbara CANLON, Karolinska Institute, Stockholm.

Circadian Rhythms in the Auditory and Vestibular Systems: Importance for New Therapeutic Solutions.

09h15-09h30 Erik De VRIEZE, Radboud University Medical Center,

Nijmegen.

Antisense Oligonucleotides for Dominantly Inherited Hearing Impairment DFNA9: From Cell Models to Humanized Mice.





09h30-11h00 SESSION VI

Innovations in Robotic-Assisted Inner Ear Surgery: Cochlear Implants and Beyond

Chairs: Yann NGUYEN, Guodong FENG, Razika BENCHEIKH.

09h30-09h50 Sumit AGRAWAL, Western University, London.

Synchrotron Anatomy of the Inner Ear.

09h50-10h05 Yann NGUYEN, Institut de l'Audition, Institut Pasteur, AP-HP,

Paris.

Robotic-Assisted Insertion of Cochlear Implant CI632: an

Ex-Vivo Study.

10h05-10h20 Thierry MOM, CHU, Clermont-Ferrand.

Hearing Preservation in Cochlear Implantation with

Robotized Insertion Under Fluoroscopy.

10h20-10h35 Huan JIA, Shanghai Ninth People's Hospital, Shanghai.

A Grading Framework of Transcanal Round Window Membrane Targeting and Robotic Innovation for this

Approach.

10h35–10h45 Agathe BEDOUX, INSERM U1026, BioTis, Université de

Bordeaux, Bordeaux.

Laser-Assisted Drug Delivery to the Inner Ear: An Ex Vivo

Proof of Concept.

10h45-11h00 Yutaka TAKUMI, Shinshu University School of Medicine,

Matsumoto.

Cochlear implant performance in hearing loss patients

with GJB2 variants.

11h00-11h30

Coffee break & Posters visit







11h30-12h15

Sensorion Symposium



Hearing Loss Innovation: Expanding Frontiers in Protection & Restoration

Moderator: Nawal OUZREN, Chief Executive Officer, Sensorion

Protecting Hair cells, Preserving Hearing: The Potential of SENS-401.

Yann NGUYEN, Department of Otolaryngology-Head & Neck Surgery, Pitié-Salpêtrière Hospital, Paris.

From Bench to Bedside: The Journey of GJB2 & OTOF Gene Therapies for Children with Severe to Profound Hearing Loss. Advancing Gene Therapy for OTOF-Related Hearing Loss in Young Children.

Natalie LOUNDON, Pediatric Department of Otolaryngology-Head & Neck Surgery, Necker Enfants Malades, Paris.

- Developing Novel Gene Therapy for Hereditary Hearing Loss in Patients with GJB2 Mutations.
 - Laurent DESIRE, PhD, Head of Preclinical Development, Sensorion.
- Q&A Session & Conclusion.
 Nawal OUZREN, Chief Executive Officer, Sensorion

12h15-14h00

LUNCH break (Posters visit)







14h00-15h10 SESSION VII

Understanding Inner ear

Chairs: Anil K. LALWANI, Francoise DENOYELLE,

Othmane BENHOUMMAD.

14h00 -14h20 Shin-Ichi USAMI, Shinshu University School of Medicine,

Matsumoto.

The Use of Flex 28 Dex-Eluting Electrode in Relation to

Genetics and EAS.

14h20-14h40 Guodong FENG, Peking Union Medical College Hospital,

Beijing.

Biomechanical Properties of The Basilar Membrane in

Miniature Pigs.

14h40-14h55 Shin-Ya NISHIO, Shinshu University School of Medicine,

Mastumoto.

Tonotopic Gene Expression in the Developing Fetal

Human Inner Ear.

14h55-15h10 Anil K. LALWANI, Columbia Vagelos College of Physicians

and Surgeons, New-York.

Conquering the Barriers to Precision Inner Ear Medicine.

15h10-15h50 SESSION VIII-1

Breakthrough Therapies for Hearing Loss

Chairs: Alain DABDOUB, Barbara CANLON,

Najib BELMANSOUR.

15h10-15h30 Guodong FENG, Peking Union Medical College Hospital,

Beijing.

Gene Therapy for Congenital Sensorineural Hearing Loss

Related to OTOF Gene Mutations: A Report of 3 Cases.

15h30-15h50 Anne-SCHILDER, UCL, London.

Leanings From the REGAIN Trial, a Phase I/IIa Safety and Efficacy Trial of Intratympanic Gamma-Secretase

Inhibitor as a Regenerative Drug Treatment for

Sensorineural Hearing Loss.

15h50-16h30 Coffee break & Posters visit







16h30-18h20 **SESSION VIII-2**

Breakthrough Therapies for Hearing Loss

Chairs: Thomas LENARZ, Brigitte MALGRANGE,

Mohamed RIDAL.

16h30-16h45 Christophe VINCENT, CHU, Lille.

In Vivo Pharmacological Study of an Intracochlear

Dexamethasone-Loaded EVA Implant.

16h45-17h00 Nils PRENZLER, Hannover Medical School, Hannover.

From Bench to Bedside: Vesicle-Rich Secretome Fraction from Umbilical Cord Mesenchymal Stromal Cells as Novel

Inner Ear Therapeutics in Cochlear Implantation.

17h00-17h20 Hao WU, Shanghai Jiaotong University Ear Institute,

Shanghai.

A Directed Evolution Novel Adeno-Associated Virus (AAV-WM04) Mediated Gene Therapy Restores Hearing in OTOF Mutation-Related Deafness in Animal Models and

Patients.

17h20-17h40 Shin-Ichi USAMI, Shinshu University School of Medicine,

Matsumoto.

Genotype-Phenotype Correlations in 1,246 Patients with Hearing Loss Caused by *GJB2* Gene Variants: Towards

Gene Therapy.

17h40-18h00 Thomas LENARZ, Hannover Medical School, Hannover.

Clinical Longterm Results of a Flexible Dexamethasone-

Eluting Cochlear Implant Electrode.

18h00-18h20 Hidekane YOSHIMURA,

Shinshu University School of Medicine, Matsumoto.

The Most Appropriate Gene Delivery Approach: Based on

625 Temporal Bone CT Scans.

20h00

Symposium Dinner







Day 3, Sunday, April 27

Gene Therapy Breakthroughs in Hearing LossChairs: Didier DULON, Pascal SENN, Fehd ELAYOUBI.

08h00-08h20 Didier DULON, Institut de l'Audition, Inserm and Institut

Pasteur, Paris.

Alternative Splicing of Otoferlin in Hair Cell Synaptic

Transmission.

08h20-08h40 Kazusaku KAMIYA, Juntendo University Faculty of Medicine,

Tokyo.

AAV Gene Therapy Targeting GJB2 Related Hearing Loss

by Capsid and Promoter Modification.

08h40-09h00 Hinrich STAECKER, University of Kansas School of Medicine,

Kansas City.

Developing New AAV Vectors for Inner Ear Disorders:

Rational Design and Directed Evolution.

09h00-09h15 Aziz EL-AMRAOUI, Institut de l'Audition, Institut Pasteur,

Paris.

The Evolutionary Edge in Gene Therapy for Mammalian

Hearing and Balance: Lessons from Clarin-Deficient

Hearing and Balance: Lessons from Clarin-Deficient

Models.





Day 3, Sunday, April 27

Advancing Prevention, Diagnosis, and

Management

Chairs: Arnaud NORENA, Brigitte MALGRANGE,

Ilham RKAIN.

09h15-09h30 Federico CERIANI, University of Sheffield, Sheffield.

A Machine-Learning-Based Approach for Early Detection

of Progressive Hearing Loss.

09h30-09h45 Nish MEHTA, Ear Institute UCL, London.

Using Artificial Intelligence for Hearing Loss Research

and Healthcare.

09h45-10h00 Zhao YANG, Peking Union Medical College Hospital, Beijing.

Facial Nerve-Aware and Biomechanically Modeled

Robotic Cochlear Implantation: Toward Safer and More

Precise Electrode Insertion.

10h00-10h15 Abdulrahman HAGR, King Saud University, Rhyad.

Minimalism with Implantable Device.

10h15-10h45

Coffee break & Posters visit







Day 3, Sunday, April 27

10h45-12h00 SESSION XI

Emerging Therapies for Hearing Loss:

Neurotrophic Pathways, Oxidative Stress &

Cochlear Modeling

Chairs: Aziz El AMRAOUI, Karim NADOUR,

Abdulrahman HAGR.

10h45-11h05 Yi-CHAO HSU, MacKay Medical College, Taipei.

Neurotrophic Factors and Neural Stem/Progenitor Cells

Improve Sensorineural Hearing Loss in Mice.

11h05-11h25: Lucie OBERHAUSER, University of Geneva, Geneva.

Discovery of NOX3 Inhibitors for the Prevention of

Acquired Hearing Loss.

11h25-11h45 Brigitte MALGRANGE, University of Liege, Liege.

Modelling Hereditary Hearing Loss with Human 3D Cochlear Organoids: Focus on Sifrim-Hitz Weiss

Syndrome.

11h45-12h00 Saaid SAFIEDDINE, Institut de l'Audition, Institut Pasteur,

Paris.

AAV-Mediated STRC Gene Therapy Rescues Cochlear Function and sound Processing Capabilities in a DFNB16

Mouse Model.

12h00-13h00 CLOSING REMARKS AND POSTER PRIZE

CEREMONY

13h00-14h00

Lunch & Farewell







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