



**UNIVERSITÀ  
DEGLI STUDI  
DI TRIESTE**



REGIONE AUTONOMA FRIULI VENEZIA GIULIA

ISTITUTO DI RICOVERO e CURA  
a carattere scientifico  
Burlo Garofolo di Trieste



# IEB 2022

Symposium &  
57<sup>th</sup> Inner Ear Biology  
Workshop

**10-13 September | Trieste, Italy**

Chairs: Paolo Gasparini and Giorgia Giroto

**PROGRAMME**

Under the auspices of



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# Symposium & 57<sup>th</sup> Inner Ear Biology Workshop - IEB 2022

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*Dear Friends and Colleagues,*

*It is a great pleasure to welcome you to Trieste on the occasion of the 57<sup>th</sup> Inner Ear Biology Workshop that will be held from Saturday, September 10, to Tuesday, September 13, 2022.*

*The coronavirus (COVID-19) pandemic has thrown meeting professionals in an unprecedented position with cancellations, postponements and venue closures during 2020 and 2021. We are thinking of a more optimistic future; we are extremely honoured to have the occasion to host the IEB 2022 annual workshop in Trieste, which has been recently awarded the title of the European City of Science. Therefore, we would like to provide an inspiring scientific environment where young scientists and physicians, together with experts from all over the world, will exchange their knowledge in hearing loss and come back enriched from this experience.*

*The meeting will be preceded by an opening Symposium entitled "Genes, genomes and hearing: from basic research to therapy".*

*Due to the strong genetic background here in Trieste we want the workshop to be focused on the genetics, pathology and therapies of the inner ear, highlighting the importance to bridge basic research into clinical application. Excellent keynote speakers will give stimulating talks that will lay the ground for discussions and contribute to further translational activities.*

*We believe that you will also enjoy our beautiful city, Trieste, together with nearby Slovenia. You will appreciate the union between the sea and the countryside, all the local food and wines that will make your stay even more pleasant. Moreover, September is one of the most beautiful months to visit this region, and an attractive social program has been planned for all delegates and accompanying persons to make your participation at the IEB Workshop even more memorable.*

*On behalf of the Organizing Committee, we welcome you all to the 57<sup>th</sup> IEB workshop in Trieste.*

*We are sure that we will make a memorable IEB.*

*Best regards,*



*Prof. Paolo Gasparini*



*Prof. Giorgia Girotto*

# COMMITTEES

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## Chairs

**Paolo Gasparini**

**Giorgia Girotto**

*Institute of Human Genetics*

*IRCCS Burlo Garofalo*

*Trieste, Italy*

## Scientific Committee

**Laura Astolfi** – *Padua, Italy*

**Umberto Ambrosetti** – *Milan, Italy*

**Saba Battelino** – *Ljubljana, Slovenia*

**Michael Bowl** – *London, UK*

**Sandro Burdo** – *Varese, Italy*

**Aziz El-Amraoui** – *Paris, France*

**Annarita Fetoni** – *Naples, Italy*

**Annamaria Franzè** – *Naples, Italy*

**Hannie Kremer** – *Nijmegen, The Netherlands*

**Elio Marciano** – *Naples, Italy*

**Sandrine Marlin** – *Paris, France*

**Alessandro Martini** – *Padua, Italy*

**Anna Morgan** – *Trieste, Italy*

**Marcelo Rivolta** – *Sheffield, UK*

**Marta Roccio** – *Zurich, Switzerland*

**Karen Steel** – *London, UK*

**Isabel Varela-Nieto** – *Madrid, Spain*

# SYMPOSIUM

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**SATURDAY, 10<sup>TH</sup> SEPTEMBER 2022**

10.00 - 12.00

Registration

## **SATELLITE SYMPOSIUM**

### **IMPLANTABLE HEARING AIDS IN ADULTS: BEYOND RESEARCH TOWARDS CLINICAL APPLICATIONS**

*Chairman: G. Tirelli*

14.30

#### **New osteointegrated Implants: indications pro and cons**

*A. Gatto, S. Rizzo (Trieste, Italy)*

14.45

#### **Bonebridge: a new transcutaneously-activated bone anchored hearing device**

*A. Canale, R. Albera (Torino, Italy)*

15.00

#### **Cochlear Implant in pre-verbal Adults: Indications and Outcomes**

*G. Auletta, A.R. Fetoni (Napoli, Italy)*

15.15

#### **Cochlear Implants in Ménière's Disease**

*D. Zanetti, L. Pignataro (Milano, Italy)*

15.30

#### **Cochleo-vestibular malformation and difficult cases: its impact on decision-making in Cochlear Implantation**

*E. Zanoletti, S. Franchella, P. Nicolai (Padova, Italy)*

15.45

#### **Cochlear implant in immune mediated inner ear diseases**

*P. Mancini, M. de Vincentiis (Roma, Italy)*

16.00

#### **Cochlear Implantation in Otosclerosis: are there different phenotypes?**

*D. Cuda, S. Ghiselli (Piacenza, Italy)*

16.15

#### **Cochlear Implant in Asymmetric Hearing Loss**

*S. Berrettini, F. Forlì (Pisa, Italy)*

16.30

#### **On the Horizon: Totally Implantable Cochlear Implant**

*N. Quaranta (Bari, Italy)*

## **INNER EAR BIOLOGY SYMPOSIUM**

### **GENETICS OF HEARING LOSS AND INNOVATIVE THERAPIES**

*Chairmen: A. El-Amraoui & P. Gasparini*

16.55

Welcome from the Authorities

17.00

**How to solve the unsolved in early-onset hearing loss?**

*H. Kremer (Nijmegen, the Netherlands)*

17.30

**Genetics and genomics of Hereditary Hearing Loss: the Trieste experience**

*G. Giroto (Trieste, Italy)*

18.00

**Human iPS cells: a tool for modelling and understanding hereditary deafness**

*B. Malgrange (Liège, Belgium)*

18.30

**New Gene Therapy Strategies for Treating Usher 1F**

*D. Corey (Harvard, USA)*

19.00

*Discussion*

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19.30

**Piano concert by Maestro D. Santacolomba followed by Welcome Reception**



# 57<sup>TH</sup> INNER EAR BIOLOGY WORKSHOP

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**SUNDAY, 11<sup>TH</sup> SEPTEMBER 2022**

## **SESSION I**

### **DISEASE MODELLING (AGING AND HL)**

*Moderators: I. Varela-Nieto & M. Roccio*

8.45

#### **TL1 - TARGET LECTURE**

##### **INSIGHTS INTO AGE-RELATED HEARING LOSS**

*K. Steel (London, UK)*

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9.15

#### **TL2 - TARGET LECTURE**

##### **UTILIZING THE MOUSE TO ELABORATE UPON THE GENETIC LANDSCAPE OF AGE-RELATED HEARING LOSS**

*M. Bowl (London, UK)*

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9.45-10.30

#### **COMMUNICATIONS**

9.45

##### **Co01 - Reversal of Hearing Loss in Spns2 Mutant Mice**

*Elisa Martelletti, Neil Ingham, Karen Steel (London, United Kingdom)*

10.00

##### **Co02 - Human pluripotent stem cells-derived inner ear organoids recapitulate otic development in vitro**

*Daniela Doda<sup>(1)</sup>, Victoria Valsamides<sup>(1)</sup>, Sara Alonos Jimenez<sup>(1)</sup>, Hans Rudolf Widme<sup>(2)</sup>, Marta Roccio<sup>(1)</sup> (Zurich, Switzerland<sup>(1)</sup>; Bern, Switzerland<sup>(2)</sup>)*

10.15

##### **Co03 - Phospholipid PIP<sub>2</sub> mediates slow adaptation in cochlear and vestibular hair cells**

*Giusy Caprara, Anthony Peng (Aurora, CO, United States)*

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10.30-11.00

*Open Coffee*

## SESSION II

### NEW IMAGING TECHNOLOGIES FOR THE INNER EAR

Moderators: C. Granata & P. Boscolo Rizzo

11.00

#### TL3 - TARGET LECTURE

##### INNOVATIVE ASPECTS OF INNER EAR IMAGING

R. Manara (Padua, Italy)

11.30-11.45

#### COMMUNICATION

11.30

##### Co04 - 3D reconstruction of the inner ear vascularization and temporal bone marrow in the rat

*Paola Perin, Daniele Cossellu, Simone Lazzarini, Elisa Vivado, Roberto Pizzala (Pavia, Italy)*

## SESSION III

### COMMUNICATIONS ON EAR PHYSIOLOGY

Moderators: E. Martelletti & F. Paciello

11.45

##### Co05 - Biophysical Maturation of SGN is driven by IHC-Activity during early postnatal Development

*Linus Conrad, Lara DeTomasi, Stuart Johnson, Walter Marcotti, Mirna Mustapha (Sheffield, United Kingdom)*

12.00

##### Co06 - Probing the molecular recognition between CIB2 and TMC1 in physiological hearing and deafness

*Giuditta Dal Cortivo, Daniele Dell'Orco (Verona, Italy)*

12.15

##### Co07 - cAMP and Voltage Regulate Mechanotransduction Gating-Spring Stiffness

*Andrew Mecca, Giusy Caprara, Anthony Peng (Aurora, CO, United States)*

12.30

##### Co08 - Prestin structure and function

*Joseph Santos-Sacchi (New Haven, CT, United States)*

12.45

##### Co09 - Loss of limbic mineralocorticoid or glucocorticoid receptors impacts auditory processing in the cochlea

*Philine Marchetta, Philipp Eckert, Robert Lukowski, Peter Ruth, Wibke Singer, Lukas Rüttiger, Marties Knipper (Tübingen, Germany)*

13.00

**Co10 - Stress affects central compensation of neural responses to cochlear synaptopathy in a cGMP-dependent way**

*Daria Savitska, Morgan Hess, Dila Calis, Philine Marchetta, Csaba Harasztozi, Stefan Fink, Philipp Eckert, Peter Ruth, Lukas Rüttiger, Marlies Knipper, Wibke Singer (Tübingen, Germany)*

13.15 – 14.30

Light lunch & Poster Viewing: **Poster Session 1** (see details on page 17)

## SESSION IV AGE-RELATED HEARING LOSS

Moderators: R. Sardone & K. Steel

14.30

### TL4 - TARGET LECTURE AGING EAR AND HEARING

*A.R. Fetoni (Naples, Italy)*

15.00

### TL5 - TARGET LECTURE GENETICS OF AGE-RELATED HEARING LOSS: HIGH-THROUGHPUT TECHNOLOGIES AND GENE DISCOVERY

*A. Morgan (Trieste, Italy)*

15.30-16.15

## COMMUNICATIONS

15.30

### Co11 - Identification of Genes and Variants Associated with Adult-Onset Hearing Loss

*Morag A. Lewis<sup>(1)</sup>, Clarisse Panganiban<sup>(1)</sup>, Elysia M. James<sup>(1)</sup>, Jennifer Schulte<sup>(2)</sup>, Bradley A. Schulte<sup>(2)</sup>, Judy R. Dubno<sup>(2)</sup>, Karen P. Steel<sup>(1)</sup> (London, United Kingdom<sup>(1)</sup>; Charleston, SC, USA<sup>(2)</sup>)*

15.45

### Co12 - Deepening the genetics of hearing: Genome-Wide Association Studies (GWAS) on Moli-sani cohort

*Aurora Santin<sup>(1)</sup>, Stefania Lenarduzzi<sup>(1)</sup>, Giuseppe Giovanni Nardone<sup>(1)</sup>, Beatrice Spedicati<sup>(1)</sup>, Anna Morgan<sup>(1)</sup>, Mariarosaria Persichillo<sup>(2)</sup>, Amalia De Curtis<sup>(2)</sup>, Simona Costanzo<sup>(2)</sup>, Alessandro Gialluisi<sup>(3)</sup>, Licia Iacoviello<sup>(3)</sup>, Paolo Gasparini<sup>(1)</sup>, Maria Pina Concas<sup>(1)</sup>, Giorgia Giroto<sup>(1)</sup> (Trieste, Italy<sup>(1)</sup>; Pozzilli, Italy<sup>(2)</sup>; Varese, Italy<sup>(3)</sup>)*

16.00

### Co13 - Genetics of sensory impairment in Italian semi-supercentenarians

*Paolo Garagnani<sup>(1)</sup>, Katarzyna Malgorzata Kwiatkowska<sup>(1)</sup>, Vincenzo Iannuzzi<sup>(1)</sup>, Chiara Pirazzini<sup>(1)</sup>, Daniela Monti<sup>(2)</sup>, Claudio Franceschi<sup>(1)</sup>, Giuseppe Passarino<sup>(3)</sup>, Giorgia Giroto<sup>(4)</sup>, Maria Pina Concas<sup>(4)</sup>, Paolo Gasparini<sup>(4)</sup>, Cristina Giuliani<sup>(1)</sup> (Bologna, Italy<sup>(1)</sup>; Florence, Italy<sup>(2)</sup>; Rende, Italy<sup>(3)</sup>; Trieste, Italy<sup>(4)</sup>)*

16.15-16.45

Open Coffee

## SESSION V TINNITUS AND VESTIBULAR DISORDERS

Moderators: N. Quaranta & M. Rivolta

16.45

### TL6 - TARGET LECTURE

#### MOLECULAR GENETICS OF FAMILIAL MENIERE DISEASE

A. Lopez-Escamez (Granada, Spain)

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17.15-17.45

### COMMUNICATIONS

17.15

#### Co14 - Novel variants in TECTA gene related with the tectorial membrane in familial Meniere's disease cases

*Alberto M. Parra-Perez, Pablo Roman-Naranjo, Alba Escalera-Balsera, Paula Robles-Bolivar, Patricia Perez-Carpena, Mar Lamolda, Alvaro Gallego-Martinez, Lidia Frejo, Jose A. Lopez-Escamez (Granada, Spain)*

17.30

#### Co15 - Vestibular Complaints Impact on the Long-Term Quality of Life of Vestibular Schwannoma Patients

*Constanza Fuentealba Bassaletti, Olaf M. Neve, Babette Fiebke van Esch, Jeroen C. Jansen, Radboud W. Koot, Peter P.G van Benthem, Erik F. Hensen (Leiden, Netherlands)*

17.45-18.15

#### Co16 - Frontiers: Neuro-immunology of the Inner Ear

*Paola Perin<sup>(1)</sup>, Agnieszka Szczepek<sup>(2)</sup>, Silvia Murillo<sup>(3)</sup>, Isabel Varela-Nieto<sup>(3)</sup> (Pavia, Italy<sup>(1)</sup>; Berlin, Germany<sup>(2)</sup>; Madrid, Spain<sup>(3)</sup>)*

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18.15-19.30

Meeting the Companies & Poster Viewing: **Poster Session 2** (see details on page 22)

**SESSION VI**  
**COCHLEAR IMPLANTS**

Moderators: S. Burdo & E. Orzan

8.45

**TL7 - TARGET LECTURE**

**GENETICS OF SLOVENIAN COCHLEAR IMPLANTS USERS**

S. Battelino (Ljubljana, Slovenia)

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9.15-10.15

**COMMUNICATIONS**

9.15

**Co17 - Application of autologous mononuclear cells via an inner ear catheter: first clinical experience in cochlear implantation**

*Athanasia Warnecke, Rolf Salcher, Lutz Gärtner, Thomas Lenarz, Nils Prenzler (Hannover, Germany)*

9.45

**Co18 - Evaluating the predictive potential of the polarity effect on auditory nerve health using the electrically evoked compound action potential in guinea pigs**

*Zoë A. van den Aardweg<sup>(1)</sup>, Huib Versnel<sup>(1)</sup>, Henk A. Vink<sup>(1)</sup>, Stefan B. Strahl<sup>(2)</sup>, Dyan Ramekers<sup>(1)</sup> (Utrecht, Netherlands<sup>(1)</sup>; Innsbruck, Austria<sup>(2)</sup>)*

10.00

**Co19 - Piezoelectric nanomaterial biocompatibility on in vitro inner ear sensory-neural models**

*Laura Astolfi<sup>(1)</sup>, Mariarita Candito<sup>(1)</sup>, Erica Gentilin<sup>(1)</sup>, Edi Simoni<sup>(1)</sup>, Alessandro Martini<sup>(1)</sup>, Serena Danti<sup>(2)</sup> (Padova, Italy<sup>(1)</sup>; Pisa, Italy<sup>(2)</sup>)*

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10.00-10.30

*Open Coffee*

**SESSION VII**  
**INNOVATIVE THERAPIES**

Moderators: D. Corey & M. Roccio

10.30

**TL8 - TARGET LECTURE**

**RNA THERAPIES FOR OTOGENETIC DISORDERS**

E. van Wijk (Nijmegen, the Netherlands)

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11.00

**TL9 - TARGET LECTURE**

**DEVELOPING NOVEL THERAPIES FOR HEARING LOSS: PLURIPOTENT STEM CELLS AS ADVANCED THERAPY MEDICINAL PRODUCTS (ATMPs)**

*M. Rivolta (Sheffield, UK)*

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11.30-12.15

**COMMUNICATIONS**

11.30

**Co20 - AAV-mediated gene therapy improves hearing in a DFNB93 mouse model**

*David Oestreicher, Maria Magdalena Picher, Vladan Rankovic, Tina Pangrsic (Göttingen, Germany)*

11.45

**Co21 - Third-generation lentiviral gene therapy rescues function in a mouse model of Usher 1B**

*Juliane Schott<sup>(1)</sup>, Peixin Huang<sup>(2)</sup>, Michael Morgan<sup>(1)</sup>, Athanasia Warnecke<sup>(1)</sup>, Axel Schambach<sup>(1)</sup>, Hinrich Staecker<sup>(1)</sup> (Hanover, Germany<sup>(1)</sup>; Kansas City, MO, United States<sup>(2)</sup>)*

12.00

**Co22 - AAV gene therapy and iPS cell-based disease modeling for GJB2 related hearing loss**

*Kazusaku Kamiya, Katsuhisa Ikeda (Tokyo, Japan)*

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12.15 – 13.30

*Light lunch & Poster Viewing: **Poster Session 3** (see details on page 27)*

**SESSION VIII**

**NOISE-INDUCED HEARING LOSS**

*Moderators: R. Sardone & A. Lopez-Escamez*

13.30

**TL10 - TARGET LECTURE**

**KEY PROCESSES IN NOISE-INDUCED HEARING LOSS: LOSS OF REDOX HOMEOSTASIS AND INFLAMMATION**

*I. Varela Nieto (Madrid, Spain)*

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14.00-14.30

**COMMUNICATIONS**

14.00

**Co23 - Noise exposure accelerates cognitive decline and hippocampal dysfunction in a mouse model of Alzheimer's Disease**

*Fabiola Paciello<sup>(1)</sup>, Anna Pisanì<sup>(1)</sup>, Marco Rinaudo<sup>(1)</sup>, Sara Cocco<sup>(1)</sup>, Valentina Longo<sup>(1)</sup>, Gaetano Paludetti<sup>(1)</sup>, Anna Rita Fetoni<sup>(2)</sup>, Claudio Grassi<sup>(1)</sup> (Rome, Italy<sup>(1)</sup>; Naples, Italy<sup>(2)</sup>)*

14.15

**Co24 - Cochlin Deficiency Protects Aged Mice from Noise-Induced Hearing Loss**  
*Dorien Verdoodt, Noa Peeleman, Fien Aben, Krystyna Szewczyk, Guy Van Camp, Peter Ponsaerts, Vincent Van Rompaey (Antwerpen, Belgium)*

## SESSION IX

### COMMUNICATIONS ON REGENERATION, STEM CELLS AND DEVELOPMENTAL BIOLOGY

Moderators: M. Rivolta & B. Malgrange

14.30

**Co25 - GMP-grade cell purification for clinical application – a tale of two sorters**  
*Leila Abbas, Bronte Elliott, Marcelo Rivolta (Sheffield, United Kingdom)*

14.45

**Co26 - Protease-Activated Receptor is Essential for Mitotic Basilar Papilla Hair Cell Regeneration**

*Nesrine Benkafadar<sup>(1)</sup>, Amanda Janesick<sup>(1)</sup>, Mirko Scheibinger<sup>(1)</sup>, Angela Ling<sup>(2)</sup>, Taha Jan<sup>(2)</sup>, Stefan Heller<sup>(1)</sup> (Stanford, CA, United States<sup>(1)</sup>; San Francisco, CA, United States<sup>(2)</sup>)*

15.00

**Co27 - Single-cell RNA-sequencing Reveals Novel Populations of Supporting Cells in the Adult Human Utricle and Profiles Transcriptome Changes after Ototoxic Damage**

*Emilia Luca<sup>(1)</sup>, Neke Ibeh<sup>(1)</sup>, Ryosuke Yamamoto<sup>(1)</sup>, Dallas Bennett<sup>(1)</sup>, Vincent Lin<sup>(1)</sup>, Joseph Chen<sup>(1)</sup>, Michael Lovett<sup>(2)</sup>, Alain Dabdoub<sup>(1)</sup> (Toronto, Canada<sup>(1)</sup>; London, United Kingdom<sup>(2)</sup>)*

15.15

**Co28 - Reactivating dormant stemness pathways in presenescent mammalian auditory neuroprogenitors in vitro**

*Francis Rousset<sup>(1)</sup>, Guilia Schilardi<sup>(2)</sup>, Stéphanie Sgroi<sup>(1)</sup>, German Nacher-Soler<sup>(1)</sup>, Rebecca Sipione<sup>(1)</sup>, Sonja Kleinlogel<sup>(2)</sup>, Pascal Senn<sup>(1)</sup> (Geneva, Switzerland<sup>(1)</sup>; Bern, Switzerland<sup>(2)</sup>)*

15.30

**Co29 - Cellular diversity of human pluripotent stem cell-derived inner ear organoids**

*Wouter H. van der Valk<sup>(1)</sup>, Matthew R. Steinhart<sup>(2)</sup>, Edward S.A. van Beelen<sup>(1)</sup> - John C.M.J. de Groot<sup>(1)</sup>, Peter Paul G. van Benthem<sup>(1)</sup>, Karl R. Koehler<sup>(3)</sup>, Heiko Locher<sup>(1)</sup> (Leiden, Netherlands<sup>(1)</sup>; Indianapolis, IN, United States<sup>(2)</sup>; Boston, MA, United States<sup>(3)</sup>)*

15.45

**Co30 - Cytomegalovirus Entry Protein Expression in the Fetal Human Inner Ear**

*Lucia Grijpink, Heiko Locher, John de Groot, Ann Vossen (Leiden, Netherlands)*

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16.00-16.15

**Spoendlin Award Ceremony**

**SESSION X**  
**GENETICS AND DISEASES**

Moderators: E. van Wijk & E. Rubinato

9.00

**TL11 - TARGET LECTURE**

**MAIN GENES INVOLVED IN SYNDROMIC AND ISOLATED FORMS OF HEARING IMPAIRMENT**

S. Marlin (Paris, France)

9.30

**TL12 - TARGET LECTURE**

**POSTNATAL AND PROGRESSIVE HEARING AND BALANCE IMPAIRMENTS: DISEASE MECHANISMS AND THERAPEUTIC OPTIONS**

A. El-Amraoui (Paris, France)

10.00-11.00

**COMMUNICATIONS**

10.00

**Co31 - Dual molecular diagnosis in complex hearing loss patients: when a single gene is not enough**

*Beatrice Spedicati<sup>(1)</sup>, Anna Morgan<sup>(1)</sup>, Umberto Ambrosetti<sup>(2)</sup>, Livia Garavelli<sup>(3)</sup>, Stefania Lenarduzzi<sup>(1)</sup>, Giulia Pelliccione<sup>(1)</sup>, Francesca Peluso<sup>(3)</sup>, Aurora Santin<sup>(1)</sup>, Paolo Gasparini<sup>(1)</sup>, Giorgia Giroto<sup>(1)</sup> (Trieste, Italy<sup>(1)</sup>; Milan, Italy<sup>(2)</sup>; Reggio Emilia, Italy<sup>(3)</sup>)*

10.15

**Co32 - Exploring the Pathological Mechanisms of miR-96 Mutations in the Inner Ear**

*María Lachgar-Ruiz<sup>(1)</sup>, Morag A Lewis<sup>(1)</sup>, Jing Chen<sup>(1)</sup>, Francesca Di Domenico<sup>(1)</sup>, Matias Morin<sup>(2)</sup>, Sergio Fernández Peñalver<sup>(2)</sup>, Miguel Ángel Moreno-Pelayo<sup>(2)</sup>, Karen P Steel<sup>(1)</sup> (London, United Kingdom<sup>(1)</sup>; Madrid, Spain<sup>(2)</sup>)*

10.30

**Co33 - TRIOBP5 Recruits ANKRD24 to Reinforce Stereocilia Insertion Points and Enhance Rootlet Resilience**

*Inna A. Belyantseva<sup>(1)</sup>, Jocelyn F. Krey<sup>(2)</sup>, Chang Liu<sup>(3)</sup>, Michael Bateschell<sup>(2)</sup>, Rachel A. Dumont<sup>(2)</sup>, Jennifer Goldsmith<sup>(2)</sup>, Paroma Chatterjee<sup>(2)</sup>, Rachel S. Morrill<sup>(2)</sup>, Lev M. Fedorov<sup>(2)</sup>, Sarah Foster<sup>(2)</sup>, Jinkyung Kim<sup>(4)</sup>, Alfred L. Nuttall<sup>(2)</sup>, Sherri M. Jones<sup>(5)</sup>, Dongseok Choi<sup>(2)</sup>, Anthony J. Ricci<sup>(4)</sup>, Bo Zhao<sup>(3)</sup>, Peter G. Barr-Gillespie<sup>(2)</sup>, Thomas B. Friedman<sup>(1)</sup> (Bethesda, MD United States<sup>(1)</sup>; Portland, OR, United States<sup>(2)</sup> - Indianapolis, IN, United States<sup>(3)</sup> - Stanford, CA, United States<sup>(4)</sup> - Lincoln, NE, United States<sup>(5)</sup>)*



10.45

**Co34 - Age-related hearing loss and SLC7A8: Identification of molecules able to restore the gene lost activity**

*Paola Tesolin<sup>(1)</sup>, Anna Morgan<sup>(1)</sup>, Giulia Pianigiani<sup>(1)</sup>, Paola Bartoccioni<sup>(2)</sup>, Virginia Nunes Martinez<sup>(3)</sup>, Manuel Palacin<sup>(2)</sup>, Giorgia Giroto<sup>(1)</sup> (Trieste, Italy<sup>(1)</sup>; Madrid & Barcelona, Spain<sup>(2)</sup>; Barcelona, Spain<sup>(3)</sup>)*

10.30-11.0

*Open Coffee***SESSION XI****AUDITORY NEUROPATHY: WHERE ARE WE NOW?**

*Moderators: L. Astolfi & A.R. Fetoni*

11.00

**TL13 - TARGET LECTURE****AUDITORY NEUROPATHY - FROM BASIC RESEARCH TO PERSONALIZED MEDICINE**

*E. Reisinger (Tübingen, Germany)*

11.30-11.45

**COMMUNICATION**

11.30

**Co35 - Genotype phenotype correlations of 37 DFNB9 patients with auditory neuropathy and 17 new OTOF pathogenic variants**

*Margaux Serey-Gaut<sup>(1)</sup>, Sophie Achard<sup>(1)</sup>, Laurence Jonard<sup>(1)</sup>, Isabelle Rouillon<sup>(1)</sup>, Marine Parodi<sup>(1)</sup>, Natalie Loundon<sup>(1)</sup>, Elisa Rubinato<sup>(2)</sup>, Sandrine Marlin<sup>(1)</sup> (Paris, France<sup>(1)</sup>; Paris, France & Trieste, Italy<sup>(2)</sup>)*

**SESSION XII****COMMUNICATIONS ON OTOPROTECTION**

*Moderators: L. Astolfi & A.R. Fetoni*

11.45

**Co36 - Insulin-like growth factor 1 otoprotection in basal and stress conditions is mediated through PI3K/AKT activation in HEI-OC1 cells**

*Angela Garcia-Mato, Blanca Cervantes, Lourdes Rodriguez-de la Rosa, Isabel Varela-Nieto (Madrid, Spain)*

12.00

**Co37 - Superparamagnetic Iron Oxide Nanoparticle-Based Delivery of Dexamethasone using Magnetic Attraction for Otoprotection in Ototoxicity-induced Hearing Loss**

*Sung Kyun Kim<sup>(1)</sup>, Jeong-Eun Park<sup>(2)</sup>, Woo Cheol Kim<sup>(2)</sup>, Yeji Ahn<sup>(2)</sup>, Sun Mok Ha<sup>(2)</sup>, Wan Su Yun<sup>(2)</sup>, Tae Hoon Kong<sup>(2)</sup>, Su Hoon Lee<sup>(2)</sup>, Dong Jun Park<sup>(2)</sup>, Jin Sil Choi<sup>(2)</sup>, Ji-hyeon Lee<sup>(2)</sup>, Jaehong Key<sup>(2)</sup>, Young Joon Seo<sup>(2)</sup> (Hwaseong, Republic of Korea<sup>(1)</sup>; Wonju, Republic of Korea<sup>(2)</sup>)*

## **CLOSING SESSION**

12.15

### **2022: COTUGNO & CORTI: THE BICENTENARY OF A PASSING OF THE BATON**

*A. Martini (Padua, Italy)*

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12.45

### **IEB 2023**

*J. Gale (London, UK)*

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*ECM - for Italian participants only:*

*Compilazione del modulo della qualità percepita*

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13.30

*Closing*

# POSTER SESSIONS

**SUNDAY, 11<sup>TH</sup> SEPTEMBER 2022**

13.00-14.30

**Lunch & Poster Viewing**

## POSTER SESSION 1

### 01. AGING

**P1.01.01 - Attenuation of auditory cell senescence by Urolithin A**

*Sung Il Cho - Eu-Ri Jo - Hansoo Song (Gwangju, Republic of Korea)*

**P1.01.02 - Age dynamics of the upper frequency boundary of the sound range by G. von Bekesy (analytical solution)**

*Evgeny Ovchinnikov (Samara, Russian Federation)*

**P1.01.03 - OCT-a Retinal Vascular Density, Age-Related Central hearing loss as predictors for global cognitive function in an Italian Older Population**

*Rodolfo Sardone<sup>(1)</sup> - Nicola Quaranta<sup>(2)</sup> - Giancarlo Sborgia<sup>(2)</sup> - Francesco Boscia<sup>(2)</sup> (Castellana Grotte, Italy<sup>(1)</sup> - Bari, Italy<sup>(2)</sup>)*

**P1.01.04 - Variability in Early Markers of Sensorineural Hearing Loss with Age**

*Sarineh Keshishzadeh - Heleen Van Der Biest - Hannah Kepler - Ingeborg Dhooge - Marjoleen Wouters - Sarah Verhulst (Ghent, Belgium)*

### 02. COCHLEAR IMPLANT AND IMPLANTABLE PROSTHESIS

**P1.02.01 - A new customized cochlear implant mapping**

*Di Maro Flavia - Cinzia Calabrese - Marco Carner - Stefano Di Gioia (Verona, Italy)*

**P1.02.02 - The Clinical Effects of Steroids Therapy in the Preserving Residual Hearing after Cochlear Implantation with the OTICON Neuro Zti EVO**

*Magdalena Skarżyńska - Aleksandra Kotodziejak - Elżbieta Gos - Piotr Skarżyński (Kajetany, Poland)*

**P1.02.03 - The effect of chronic electrical stimulation on structure and function of the auditory nerve in deafened guinea pigs**

*Dyan Ramekers<sup>(1)</sup> - Heval Benav<sup>(2)</sup> - Sjaak F.L. Klis<sup>(1)</sup> - Huib Versnel<sup>(1)</sup> (Utrecht, Netherlands<sup>(1)</sup> - Innsbruck, Austria<sup>(2)</sup>)*

### 03. DEVELOPMENTAL BIOLOGY

**P1.03.01 - Transcriptome Analysis of Nascent Hair Cells Identifies Ccer2 as a Novel Gene Upregulated during Differentiation**

*Emilia Luca - Joanna F. Mulvaney - Gianluca Sampieri - Daniel Nouri Nejad - Alain Dabdoub (Toronto, Canada)*

**P1.03.02 - Impact of proteostasis on neuronal diversity in the developing inner ear**

*Mona Veithen - Brigitte Malgrange - Laurence Delacroix (Liege, Belgium)*

## 04. DRUG DELIVERY SYSTEM

**P1.04.01 - Development of an animal model to test preventive local drug delivery of noise-induced hearing loss**

*Kathrin Malfeld - Baumhoff Peter - Volk Holger - Lenarz Thomas - Scheper Verena (Hannover, Germany)*

**P1.04.02 - Preparation and Evaluation of Poloxamer 407 Hydrogel for Efficient Drug Delivery to the Inner Ear**

*Hyuk Chan Kwon - Yang Yu - Kang Moo Huh - Yong-Ho Park (Daejeon, Republic of Korea)*

**P1.04.03 - In vitro transfection of primary fibroblasts from the inner ear of postnatal rats with recombinant plasmids**

*Kirsten Wissel - Thomas Lenarz - Gerrit Paasche (Hannover, Germany)*

## 05. EAR PHYSIOLOGY

**P1.05.01 - How cochlear outer hair cells contribute to high frequency tuning**

*Jonathan Ashmore (London, United Kingdom)*

**P1.05.02 - Hearing Impairment in a Mouse Model of Diabetes Is Associated with Mitochondrial Dysfunction, Synaptopathy, and Activation of the Intrinsic Apoptosis Pathway**

*Kwan Ho Kim - Min Su Kim - Yang Yu - Yong-Ho Park (Daejeon, Republic of Korea)*

## 06. GENETICS OF HEARING LOSS AND GENE THERAPY

**P1.06.01 - Mutational spectrum and clinical features of branchiootorenal syndrome patients in Slovakia**

*Silvia Borecka - Lukas Varga - Marek Sklenar - Miloslav Karhanek - Martina Skopkova - Zuzana Pavlenkova - Lenka Langova - Michaela Pietrzykova - Milan Profant - Daniela Gasperikova (Bratislava, Slovakia, Slovak Republic)*

**P1.06.02 - ACTG1: a spectrum ranging from non-syndromic hearing impairment to polymalformative fetal presentations**

*Margaux Serey-Gaut<sup>(1)</sup> - Isabelle Rouillon<sup>(1)</sup> - Natalie Loundon<sup>(1)</sup> - Geneviève Lina Granade<sup>(2)</sup> - Souad Gherbi-Halem<sup>(1)</sup> - Anne-Marie Guerrot<sup>(3)</sup> - Yline Capri<sup>(1)</sup> - Arnaud Molin<sup>(4)</sup> - Christine Poncet Wallet<sup>(1)</sup> - Lahlou Ghizlene<sup>(1)</sup> - Tania Attie Bitach<sup>(1)</sup> - Abeke Ralyath Balogoun<sup>(1)</sup> - Laurence Jonard<sup>(1)</sup> - Sandrine Marlin<sup>(1)</sup> (Paris, France<sup>(1)</sup> - Lyon, France<sup>(2)</sup> - Rouen, France<sup>(3)</sup> - Caen, France<sup>(4)</sup>)*

**P1.06.03 - Genetic determinants of deafness and Enlarged Vestibular Aqueduct in Austria**

*Sebastian Roesch - Emanuele Benardinelli - Silvia Dossena (Salzburg, Austria)*

**P1.06.04 - Confirming the causative role of SF3B2 in craniofacial microsomia: the first Italian family**

*Elisa Rubinato* - Flavio Faletra - Agnese Feresin - Anna Morgan - Giorgia Girotto (Trieste, Italy)

**P1.06.05 - Deafness genes: how can phenotype, mutation spectrum and pathophysiology impact gene therapy potential?**

*Frederic Acke*<sup>(1)</sup> - Mathieu Struys<sup>(1)</sup> - Wan Du<sup>(2)</sup> - Frauke Coppieters<sup>(1)</sup> - Els De Leenheer<sup>(1)</sup> - Ingeborg Dhooge<sup>(1)</sup> - Zheng-Yi Chen<sup>(2)</sup> (Ghent, Belgium<sup>(1)</sup> - Boston, MA, United States<sup>(2)</sup>)

**P1.06.06 - In vivo AAV-driven Eps8 gene editing restores hair cell development and function in a mouse model of recessive deafness**

*Jing-Yi Jeng*<sup>(1)</sup> - Adam Carlton<sup>(1)</sup> - Richard Goodyear<sup>(2)</sup> - Colbie Chinowsky<sup>(3)</sup> - Federico Ceriani<sup>(1)</sup> - Guy Richardson<sup>(2)</sup> - Steve Brown<sup>(4)</sup> - Michael Bowl<sup>(5)</sup> - Uri Manor<sup>(3)</sup> - Walter Marcotti<sup>(1)</sup> (Sheffield, United Kingdom<sup>(1)</sup> - Falmer, Sussex, United Kingdom<sup>(2)</sup> - La Jolla, CA, United States<sup>(3)</sup> - Harwell, United Kingdom<sup>(4)</sup> - London, United Kingdom<sup>(5)</sup>)

**07. IMAGING AND ANATOMY****P1.07.01 - Automating vascular segmentation in the cleared auditory system**

*Daniele Cossellu* - Paola Perin - Simone Lazzarini - Roberto Pizzala (Pavia, Italy)

**10. NOISE INDUCED HEARING LOSS****P1.10.01 - Development of noise-induced hearing loss (NIHL) rat models for preclinical efficacy assessment**

*Carolanne Coyat*<sup>(1)</sup> - Véronique Baudoux<sup>(1)</sup> - Marion Souchal<sup>(1)</sup> - Sylvie Pucheu<sup>(1)</sup> - Susanna Malmström<sup>(1)</sup> - Charles Vincent<sup>(1)</sup> - Louis Fontayne<sup>(1)</sup> - Marie Peytavy<sup>(1)</sup> - Yves Cazals<sup>(2)</sup> - Chantal Cazevielle<sup>(1)</sup> - John Toomey<sup>(3)</sup> - Michael Quaile<sup>(3)</sup> - Gaëlle Naert<sup>(1)</sup> (Montpellier, France<sup>(1)</sup> - Marseille, France<sup>(2)</sup> - Collegeville, PA, United States<sup>(3)</sup>)

**11. OTOPROTECTION****P1.11.01 - SENS-401 Local Exposure is not altered by severe acoustic trauma in a rat model of sudden sensorineural hearing loss (SSNHL)**

*Julie Duron Dos Reis* - Mathieu Petremann - Viviana Delgado-Betancourt - Christophe Tran Van Ba - Pauline Liaudet - Emilie Bousquet - Laurent Désiré (Montpellier, France)

**12. OTOTOXICITY****P1.12.01 - Influence of the platinum nanoparticles on the cell viability of the mouse organ of Corti cell line HEI-OC1 and the rat spiral ganglion neurons**

*Elisabeth Berger* - Kirsten Wissel - Gudrun Brandes - Janin Reifenrath - Thomas Lenarz - Martin Durisin (Hannover, Germany)

**P1.12.02 - Oxidative stress and inflammation caused by the neuro-ototoxic effect of styrene in both cochlea and auditory cortex involve macrophage and microglia activation**

*Raffaele Montuoro<sup>(1)</sup> - Anna Pisani<sup>(1)</sup> - Rolando Rolesi<sup>(1)</sup> - Fabiola Paciello<sup>(1)</sup> - Claudio Grassi<sup>(1)</sup> - Anna Rita Fetoni<sup>(2)</sup> - Gaetano Paludetti<sup>(1)</sup> (Rome, Italy<sup>(1)</sup> - Naples, Italy<sup>(2)</sup>)*

**P1.12.03 - Evaluation of Corti neural damage in a model of cisplatin-ototoxicity**

*Rolando Rolesi<sup>(1)</sup> - Anna Pisani<sup>(1)</sup> - Fabiola Paciello<sup>(1)</sup> - Raffaele Montuoro<sup>(1)</sup> - Gaetano Paludetti<sup>(1)</sup> - Claudio Grassi<sup>(1)</sup> - Anna Rita Fetoni<sup>(2)</sup> (Rome, Italy<sup>(1)</sup> - Naples, Italy<sup>(2)</sup>)*

## 14. PHYSIOPATHOLOGY OF AUDITORY PATHWAYS

**P1.14.01 - An auditory neuropathy treatment study - Analysis of the modulatory effect of pegylated IGF1 (pegIGF1) on auditory function of the pmn mouse model.**

*Linda Bieniussa - Johannes Skornicka - Sybille Jablonka - Michael Sendtner - Johannes Völker - Kristen Rak - Rudolf Hagen (Würzburg, Germany)*

**P1.14.02 - Effects of Sound Enrichment on Fast Auditory Processing Deficits in BdnfPax2 KO mice**

*Morgan Hess - Philine Marchetta - Wibke Singer - Lukas Rüttiger - Marlies Knipper (Tübingen, Germany)*

## 15. REGENERATION AND STEM CELLS

**P1.15.01 - Biosafety and biodistribution of otic neuroprogenitors generated from human pluripotent stem cells**

*Daniela I. Cacciabue - Jenna-Rae Clark - Adam Fell - Oscar Solis-Castro - Devashish Das - Aneurin Kennerty - Leila Abbas - Marcelo N. Rivolta (Sheffield, United Kingdom)*

**P1.15.02 - Characterization of immune suppression approaches for intracochlear transplantation of human induced pluripotent stem cell-derived otic progenitor cells in a rodent model for the denervated cochlea**

*Merete Hartmann - Angeliki Koufali - Maria-Patapia Zafeiriou - Christian Wrobel (Göttingen, Germany)*

**P1.15.03 - Human cochlear and vestibular organoids from patients undergoing skull-base tumor resections**

*Natalia Smith-Cortinez - Katherine Tan - Ahmed Alkashaf - Huib Versnel - Robert Stokroos - Hans Thomeer - Louise Straatman (Utrecht, Netherlands)*

## 16. TINNITUS

**P1.16.01 - Can Functional Biomarkers Differentiate Tinnitus and Tinnitus With Co-occurring Hyperacusis?**

*Jakob Wertz - Konrad Dapper - Jörg Saemisch - Robert Stark - Stephan Wolpert - Uwe Klose - Ann-Christine Ehlis - Lukas Rüttiger - Marlies Knipper - Matthias H.J. Munk (Tübingen, Germany)*

## 17. VESTIBULAR DISORDERS

### **P1.17.01 - Baseline characteristic feature of hemispheric dominance of the vestibular cortical system of healthy controls**

*Ki Jin Kwon - Mira Yoon - Jae Yong Byun (Seoul, Republic of Korea)*

### **P1.17.02 - Vestibular migraine in children. A cross-sectional study**

*Silvia Palma<sup>(1)</sup> - Riccardo Nocini<sup>(2)</sup> - Carlo Baraldi<sup>(1)</sup> - Enrico Apa<sup>(1)</sup> - Andrea Ciorba<sup>(3)</sup> - Valeria Caragli<sup>(1)</sup> - Daniele Monzani<sup>(1)</sup> (Modena, Italy<sup>(1)</sup> - Verona, Italy<sup>(2)</sup> - Ferrara, Italy<sup>(3)</sup>)*

## 19. MISCELLANEOUS

### **P1.19.01 - Prognostic factors for outcomes of idiopathic Sudden onset Sensorineural Hearing Loss: The SeaSHeL national prospective cohort study**

*Silvia Di Bonaventura (London, United Kingdom)*

### **P1.19.02 - The human endolymphatic sac endolymph – novel sampling technique and proteome presentation**

*Christine Ölander - Jesper Edvardsson Rasmussen - Per Olof Eriksson - Göran Laurell - Helge Rask-Andersen - Jonas Bergquist (Uppsala, Sweden)*

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18.15-19.30

Poster Viewing & Meeting the Companies

## POSTER SESSION 2

### 01. AGING

**P2.01.01 - Amplitude-Modulation Following Responses in Male and Female C57Bl/6N mice change with increasing age**

*Neil J. Ingham - Karen P. Steel (London, United Kingdom)*

**P2.01.02 - Individual differences in speech induced MEG in older and hearing-impaired listeners**

*Konrad Dapper - Lukas Emmerich - Lukas Rüttiger - Marlies Knipper - Matthias H.J. Munk - Christoph Braun (Tuebingen, Germany)*

**P2.01.03 - Distribution of auditory receptors by perceived frequencies according to G. von Bekesy**

*Evgeny Ovchinnikov (Samara, Russian Federation)*

**P2.01.04 - Age related hearing loss in Dunkin Hartley Guinea Pigs**

*Peck Claas-Tido - Malfeld Kathrin - Lenarz Thomas - Verena Scheper (Hannover, Germany)*

### 02. COCHLEAR IMPLANT AND IMPLANTABLE PROSTHESIS

**P2.02.01 - Pediatric Auditory Brainstem Implant and contralateral Cochlear Implant: simultaneous or sequential surgeries?**

*Cinzia Calabrese - Marco Carner - Stefano Di Gioia - Nicole Caiazza (Verona, Italy)*

**P2.02.02 - Cochlear Implantation in Minipigs - A Potential Animal Model with Similar Inner Ear Dimensions to Humans**

*Erdem Yildiz<sup>(1)</sup> - Anselm Joseph Gadenstaetter<sup>(1)</sup> - Matthias Gerlitz<sup>(1)</sup> - Michael Nieratschker<sup>(1)</sup> - Rudolf Glueckert<sup>(2)</sup> - Clemens Honeder<sup>(1)</sup> - Hinrich Staecker<sup>(3)</sup> - Christoph Arnoldner<sup>(1)</sup> (Vienna, Austria<sup>(1)</sup> - Innsbruck, Austria<sup>(2)</sup> - Kansas City, MO, United States<sup>(3)</sup>)*

**P2.02.03 - Acute effects of cochleostomy and electrode-array insertion on compound action potential and cochlear microphonics in normal-hearing guinea pigs**

*Saad Jwair - Dyan Ramekers - Robert Stokroos - Hans Thomeer - Huib Versnel (Utrecht, Netherlands)*

### 03. DEVELOPMENTAL BIOLOGY

**P2.03.01 - Diabetes & Hearing: link to an auditory neuropathy?**

*Guillaume Sabourin - Fabrice Giraudet - Paul Avan (Clermont-Ferrand, France)*



## 04. DRUG DELIVERY SYSTEM

### **P2.04.01 - Application of Acoustic Multi-Frequency Stimulation to Increase Apical Drug Concentrations after Intratympanic Injection in Guinea Pigs - a Pilot Study**

*Erdem Yildiz<sup>(1)</sup> - Anselm Joseph Gadenstaetter<sup>(1)</sup> - Matthias Gerlitz<sup>(1)</sup> - Michael Nieratschker<sup>(1)</sup> - Rudolfs Liepins<sup>(1)</sup> - Tobias Reichenbach<sup>(2)</sup> - Maria Anzengruber<sup>(1)</sup> - Franz Gabor<sup>(1)</sup> - Gottfried Reznicek<sup>(1)</sup> - Clemens Honeder<sup>(1)</sup> - Christoph Arnoldner<sup>(1)</sup> (Vienna, Austria<sup>(1)</sup> - London, United Kingdom<sup>(2)</sup>)*

### **P2.04.02 - Applying Glycol Chitosan Thermogel to increase the drug delivery into the inner ear**

*Yang Yu - Kang Moo Huh - Yong-Ho Park (Daejeon, Republic of Korea)*

### **P2.04.03 - Lack of NHE6 and inhibition of NKCC1 associated with increased permeability in blood labyrinth barrier-derived endothelial cell layer**

*Marijana Sekulic<sup>(1)</sup> - Jessica Paproth<sup>(1)</sup> - Cinzia Sgambato<sup>(1)</sup> - Giuseppe Albano<sup>(2)</sup> - Daniel G. Fuster<sup>(2)</sup> - Daniel Bodmer<sup>(1)</sup> - Vesna Petkovic<sup>(1)</sup> (Basel, Switzerland<sup>(1)</sup> - Bern, Switzerland<sup>(2)</sup>)*

## 05. EAR PHYSIOLOGY

### **P2.05.01 - Insights into the ion permeation of the cochlear mechano-electrical transducer channels**

*Maryline Beurg - Robert Fettiplace (Madison, WI, United States)*

### **P2.05.02 - D-Serine wakes silent NMDA receptors at the mammalian cochlear ribbon synapse**

*Jing Wang<sup>(1)</sup> - Nicolas Serratrice<sup>(1)</sup> - Cindy Jung Lee<sup>(2)</sup> - Florence François<sup>(1)</sup> - Jonathan Sweedler<sup>(2)</sup> - Jean-Luc Puel<sup>(1)</sup> - Jean Pierre Mothet<sup>(3)</sup> - Jérôme Rue<sup>(4)</sup> (Montpellier, France<sup>(1)</sup> -<sup>(2)</sup> - Urbana-Champaign, IL, USA<sup>(2)</sup> - Gif-sur-Yvette, France<sup>(3)</sup> - Montpellier & Marseille, France<sup>(4)</sup>)*

## 06. GENETICS OF HEARING LOSS AND GENE THERAPY

### **P2.06.01 - Tailored WES data analysis and reanalysis in the Lebanese population and lessons learned**

*Eliane Chouery - Cybel Mehawej - Andre Megarbane (Beirut, Lebanon)*

### **P2.06.02 - ATP1A3 gene is responsible for isolated and syndromic auditory neuropathy (CAPOS syndrome)**

*Margaux Serey-Gaut<sup>(1)</sup> - Sophie Achard<sup>(1)</sup> - Laurence Jonard<sup>(1)</sup> - Marine Parodi<sup>(1)</sup> - Natalie Loundon<sup>(1)</sup> - Christine Poncet<sup>(1)</sup> - Bruno Eymard<sup>(1)</sup> - Naima Deggouj<sup>(2)</sup> - Yves Sznajer<sup>(2)</sup> - Sandrine Marlin<sup>(1)</sup> (Paris, France<sup>(1)</sup> - Bruxelles, Belgium<sup>(2)</sup>)*

### **P2.06.03 - Non-syndromic or syndromic hearing loss? Our experience with the challenge of non-syndromic mimics**

*Elisa Rubinato - Anna Morgan - Agnese Feresin - Beatrice Spedicati - Flavio Faletra - Giorgia Grotto (Trieste, Italy)*

**P2.06.04 - MTTL1 gene variant m.A3243G in Slovak cohorts of hearing loss and diabetic patients: expect the unexpected**

*Lukas Varga* - Vibhuti Rambani - Marek Sklenar - Silvia Borecka - Martina Skopkova - Diana Viglaska - Juraj Stanik - Miroslav Tomka - Milan Profant - Daniela Gasperikova (Bratislava, Slovak Republic)

**P2.06.05 - Syndromic and non-syndromic hearing loss: identification and functional characterization of putative novel splicing variants**

*Giulia Pianigiani*<sup>(1)</sup> - Anna Morgan<sup>(1)</sup> - Elisa Rubinato<sup>(1)</sup> - Livia Garavelli<sup>(2)</sup> - Paolo Gasparini<sup>(1)</sup> - Giorgia Girotto<sup>(1)</sup> (Trieste, Italy<sup>(1)</sup> - Reggio Emilia, Italy<sup>(2)</sup>)

**P2.06.06 - Integrating optimized surgery and behavioral testing for efficient and safe adeno-associated virus gene therapy development for inner ear disorders**

*Christophe Tran Van Ba*<sup>(1)</sup> - Guillaume Olivier<sup>(1)</sup> - Julie Duron Dos Reis<sup>(1)</sup> - Hanae Farsad Oussa<sup>(1)</sup> - Anaïs Rivière<sup>(1)</sup> - Pauline Liaudet<sup>(1)</sup> - Audrey Broussy<sup>(1)</sup> - Patrice Vidal<sup>(2)</sup> - rnaud Giese<sup>(1)</sup> - Nora Yang<sup>(3)</sup> - Laurent Désiré<sup>(2)</sup> (Montpellier, France<sup>(1)</sup> - Paris, France<sup>(2)</sup> - Cambridge, MA, United States<sup>(3)</sup>)

**P2.06.07 - A disease-associated mutation in thyroid hormone receptor  $\alpha 1$  causes hearing loss and sensory hair cell patterning defects in mice**

*Corentin Affortit*<sup>(1)</sup> - Fabian Blanc<sup>(1)</sup> - Rym Saidia<sup>(1)</sup> - Jamal Nasr<sup>(1)</sup> - Jean-Charles Ceccato<sup>(1)</sup> - Jean-Luc Puel<sup>(1)</sup> - Frédéric Flamant<sup>(2)</sup> - *Jing Wang*<sup>(1)</sup> (Montpellier, France<sup>(1)</sup> - Lyon, France<sup>(2)</sup>)

## 07. IMAGING AND ANATOMY

### P2.07.01

**A deep learning approach to quantify auditory hair cell survival**

*Maurizio Cortada* - Loïc Sauter - Michael Lanz - Soledad Levano - Daniel Bodmer (Basel, Switzerland)

## 10. NOISE INDUCED HEARING LOSS

**P2.10.01 - The interplay between sensory and cognitive neurodegeneration: cochlear vulnerability to noise exposure in a model of Alzheimer's disease.**

*Anna Pisanì*<sup>(1)</sup> - Fabiola Paciello<sup>(1)</sup> - Rolando Rolesi<sup>(1)</sup> - Raffaele Montuoro<sup>(1)</sup> - Claudio Grassi<sup>(1)</sup> - Gaetano Paludetti<sup>(1)</sup> - Anna Rita Fetoni<sup>(2)</sup> (Rome, Italy<sup>(1)</sup> - Naples, Italy<sup>(2)</sup>)

## 11. OTOPROTECTION

**P2.11.01 - Mitochondrial derived peptide in the inner ear**

*Dominique Waldmann* - Maurizio Cortada - Yu Lu - Soledad Levano - Daniel Bodmer (Basel, Switzerland)

## 12. OTOTOXICITY

### **P2.12.01 - Effects of corticosteroids on survival and neurite length of spiral ganglion neurons in vitro**

*Odett Kaiser* - Janic L. Nickel - Athanasia Warnecke - Thomas Lenarz - Jennifer Harre (Hannover, Germany)

### **P2.12.02 - Evaluation of NADPH oxidase 3 as drug target in a novel 3R model of cisplatin ototoxicity**

*German Nacher-Soler* - Sébastien Lenglet - Rebecca Sipione - Stéphanie Sgroi - François Voruz - Karl-Heinz Krause - Pascal Senn - Francis Rousset (Geneva, Switzerland)

### **P2.12.03 - Development of a cisplatin-induced hearing loss (CIHL) rat model for preclinical efficacy assessment**

*Marion Souchal* - Carolanne Coyat - Aurore Marie - Elodie Flaszka - Véronique Baudoux - Charles Vincent - Louis Fontayne - Sylvie Pucheu - Gaëlle Naert (Montpellier, France)

## 13. PHARMACOLOGY OF INNER EAR

### **P2.13.01 - Effectiveness of Various Treatments for Sudden Sensorineural Hearing Loss—A Retrospective Study**

*Magdalena Skarżyńska* - Aleksandra Kołodziejak - Piotr Skarżyński - Elżbieta Gos - Milaine Dominici Sanfis (Kajetany, Poland)

## 14. PHYSIOPATHOLOGY OF AUDITORY PATHWAYS

### **P2.14.01 - Central stress receptors differentially participate in auditory nerve response though cGMP signaling cascade**

*Dila Calis*<sup>(1)</sup> - Philine Marchetta<sup>(1)</sup> - Morgan Hess<sup>(1)</sup> - Wibke Singer<sup>(1)</sup> - Michele Jacob<sup>(2)</sup> - Peter Ruth<sup>(1)</sup> - Lukas Ruttiger<sup>(1)</sup> - Marlies Knipper<sup>(1)</sup> (Tübingen, Germany<sup>(1)</sup> - Boston, MA, United States<sup>(2)</sup>)

### **P2.14.02 - Distortion Product Otoacoustic Emissions correlate to the putamen DATscan signal in Parkinson's Disease**

*Renata Sisto*<sup>(1)</sup> - Rocco Cerroni<sup>(2)</sup> - Elena Garasto<sup>(2)</sup> - Alessandro Stefani<sup>(2)</sup> - Mariangela Pierantozzi<sup>(2)</sup> - Orazio Schillaci<sup>(2)</sup> - Agostino Chiaravalloti<sup>(2)</sup> - Arturo Moletti<sup>(2)</sup> (Monteporzio Catone, Italy<sup>(1)</sup> - Rome, Italy<sup>(2)</sup>)

## 15. REGENERATION AND STEM CELLS

### **P2.15.01 - Drug repositioning to find potential drug candidates for inner ear protection against noise induced hearing loss: the use of Pharos**

*Riccardo Di Micco*<sup>(1)</sup> - Athanasia Warnecke<sup>(1)</sup> - Martin Durisin<sup>(1)</sup> - Igor Majewski<sup>(1)</sup> - Adam J. Mellott<sup>(2)</sup> - Matthew Shew<sup>(3)</sup> - Jennifer Harre<sup>(1)</sup> - Hinrich Staecker<sup>(1)</sup> - Thomas Lenarz<sup>(1)</sup> (Hannover, Germany<sup>(1)</sup> - Olathe, KS, United States<sup>(2)</sup> - St. Louis, MO, United States<sup>(3)</sup>)

**P2.15.02 - Survival of LGR5-positive supporting cells in the cochlea of adult mice 28 days after ototoxic trauma**

*Natalia Smith-Cortinez - Huib Versnel - Ferry Hendriksen - Dyan Ramekers - Robert Stokroos - [Louise Straatman](#) (Utrecht, Netherlands)*

## 16. TINNITUS

**P2.16.01 - Pulsatile tinnitus due to dural arterio-venous fistula**

*[Min Ju Kang](#) - Kyoung Ho Park - Kyoung Ho Park (Seoul, Republic of Korea)*

## 17. VESTIBULAR DISORDERS

**P2.17.01 - Expression of Autoantibodies and Complements in Acute Peripheral Vestibulopathy**

*[Ju Hyoung Lee](#) - Jin Wook Jeong (Incheon, Republic of Korea)*

## 19. MISCELLANEOUS

**P2.19.01 - The pathophysiology of hearing loss in congenital cytomegalovirus: from a direct cytopathic effect towards associated inflammatory-based damage**

*[Elise De Cuyper](#) - Frederic Acke - Ingeborg Dhooge (Ghent, Belgium)*

**P2.19.02 - Corticosterone modulates protein expression in murine inner ear explants**

*[Ewa Domarecka](#) - Heidi Olze - Agnieszka J Szczepek (Berlin, Germany)*

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12.15-13.30

Lunch & Poster Viewing

## POSTER SESSION 3

### 01. AGING

#### **P3.01.01 - Audiometric markers of cochlear synaptopathy and speech in noise deficits in humans**

*Rühle Moritz<sup>(1)</sup> - Jakob Schirmer<sup>(1)</sup> - Konrad Dapper<sup>(1)</sup> - Jakob Wertz<sup>(1)</sup> - Katharina Bader<sup>(1)</sup> - Marlies Knipper<sup>(1)</sup> - Sarah Verhulst<sup>(2)</sup> - Marjolee Wouters<sup>(2)</sup> - Etienne Gaudrain<sup>(3)</sup> - Deniz Baskent<sup>(3)</sup> - Matthias Munk<sup>(1)</sup> - Lukas Rüttiger<sup>(1)</sup> - Stephan Wolpert<sup>(1)</sup> - Ernst Dalhoff<sup>(1)</sup> (Tuebingen, Germany<sup>(1)</sup> - Ghent, Belgium<sup>(2)</sup> - Groningen, Netherlands<sup>(3)</sup>)*

#### **P3.01.02 - Neuropathy of the inner ear due to plasma membrane Ca<sup>2+</sup>-ATPase mutations**

*Osamu Minowa<sup>(1)</sup> - Takashi Daiho<sup>(2)</sup> - Kazuo Yamasaki<sup>(2)</sup> - Hiroshi Suzuki<sup>(2)</sup> - Atsushi Yoshiki<sup>(3)</sup> - Norihiro Tada<sup>(1)</sup> - Nagomi Kurebayashi<sup>(1)</sup> - Takashi Murayama<sup>(1)</sup> - Kazusaku Kamiya<sup>(1)</sup> - Yasushi Okazaki<sup>(1)</sup> - Katsuhisa Ikeda<sup>(1)</sup> (Toyo, Japan<sup>(1)</sup> - Asahikawa, Japan<sup>(2)</sup> - Tsukuba, Japan<sup>(3)</sup>)*

#### **P3.01.03 - A Nationwide Population-based Study of Association between Age-related Hearing Loss and Cognitive Disorder in Korea**

*So Hyun Kim - Kyoung Ho Park - Kyoung Ho Park (Seoul, South Korea)*

### 02. COCHLEAR IMPLANT AND IMPLANTABLE PROSTHESIS

#### **P3.02.01 - The effectiveness of targeted electrical stimulation via cochlear implant on tinnitus perceived loudness**

*Walter Di Nardo<sup>(1)</sup> - Tiziana Di Cesare<sup>(1)</sup> - Angelo Tizio<sup>(1)</sup> - Gaetano Paludetti<sup>(1)</sup> - Anna Rita Feroni<sup>(2)</sup> (Roma, Italy<sup>(1)</sup> - Napoli, Italy<sup>(2)</sup>)*

#### **P3.02.02 - Anti-inflammatory coated cochlear implants in guinea pigs**

*Wiebke Behrends<sup>(1)</sup> - Katharina Wulf<sup>(2)</sup> - Stefan Ragg<sup>(3)</sup> - Max Fröhlich<sup>(1)</sup> - Thomas Eickner<sup>(2)</sup> - Dana Dohr<sup>(2)</sup> - Thomas Lenarz<sup>(1)</sup> - Karl-Heinz Esser<sup>(1)</sup> - Verena Scheper<sup>(1)</sup> - Gerrit Paasche<sup>(1)</sup> (Hannover, Germany<sup>(1)</sup> - Rostock, Germany<sup>(2)</sup> - Innsbruck, Austria<sup>(3)</sup>)*

### 03. DEVELOPMENTAL BIOLOGY

#### **P3.03.01 - Epithelial formations in the developing human vestibular system: Newly identified dark cell areas**

*Edward van Beelen<sup>(1)</sup> - Thijs Verhagen<sup>(1)</sup> - Lucia Grijpink<sup>(1)</sup> - John de Groot<sup>(1)</sup> - Wijs Shadmanfar<sup>(2)</sup> - Heiko Locher<sup>(1)</sup> - Peter Paul van Benthem<sup>(1)</sup> (Leiden, Netherlands<sup>(1)</sup> - Eindhoven, Netherlands<sup>(2)</sup>)*

## 04. DRUG DELIVERY SYSTEM

### **P3.04.01 - PLLA-coating of cochlear implant electrode arrays to release anti-inflammatory substances**

*Madeleine Goblet<sup>(1)</sup> - Katharina Wulf<sup>(2)</sup> - Stefan Ragg<sup>(2)</sup> - Thomas Eickner<sup>(3)</sup> - Thomas Lenarz<sup>(1)</sup> - Niels Grabow<sup>(3)</sup> - Gerrit Paasche<sup>(1)</sup>  
(Hannover, Germany<sup>(1)</sup> - Innsbruck, Austria<sup>(2)</sup> - Rostock, Germany<sup>(3)</sup>)*

### **P3.04.02 - Increasing drug delivery to the inner ear using junctional regulation of round window membrane**

*Min Su Kim - Yang Yu - Yong-Ho Park (Daejeon, Republic of Korea)*

### **P3.04.03 - Development of a 3D-Printed Round Window Niche Implant for Controlled Drug Delivery in vivo**

*Chunjiang Wei - Ziwen Gao - Thomas Lenarz - Farnaz Matin-Mann - Verena Scheper  
(Hannover, Germany)*

### **P3.04.04 - Investigation of Inner Ear Drug Delivery in Piglets with a Cochlear Catheter as a Representative Model for Human Cochlear Pharmacokinetics**

*Erdem Yildiz<sup>(1)</sup> - Anselm Joseph Gadenstaetter<sup>(1)</sup> - Matthias Gerlitz<sup>(1)</sup> - Lukas Landegger<sup>(1)</sup> - Michael Nieratschker<sup>(1)</sup> - Rudolf Glueckert<sup>(2)</sup> - Clemens Honeder<sup>(1)</sup> - Hinrich Staecker<sup>(2)</sup> - Christoph Arnoldner<sup>(1)</sup> (Vienna, Austria<sup>(1)</sup> - Kansas, KS, United States<sup>(2)</sup>)*

## 05. EAR PHYSIOLOGY

### **P3.05.01 - The Exocytotic Characteristics of Mature Mammalian Vestibular Hair Cells**

*Paolo Spaiardi<sup>(1)</sup> - Walter Marcotti<sup>(2)</sup> - Sergio Masetto<sup>(1)</sup> - Stuart Johnson<sup>(2)</sup>  
(Pavia, Italy<sup>(1)</sup> - Sheffield, UK<sup>(2)</sup>)*

## 06. GENETICS OF HEARING LOSS AND GENE THERAPY

### **P3.06.01 - Molecular bases of hearing loss in Campania region (Italy)**

*Marco Miceli - Gabriella Esposito - Carmela Di Domenico - Tiziana Fioretti - Barbara Lombardo - Gennaro Auletta - Carla Laria - Antonella Castaldi - Simona Nappi - Chiara Quatrano - Annarita Fetoni - Annamaria Franze' (Napoli, Italy)*

### **P3.06.02 - Overcoming the limits of Whole Exome Sequencing: the application of Whole Genome Sequencing for the molecular diagnosis of Hearing Loss**

*Giuseppe Giovanni Nardone - Francesca Crudele - Aurora Santin - Anna Morgan - Maria Pina Concas - Giorgia Giroto (Trieste, Italy)*

### **P3.06.03 - There's more behind Hereditary Hearing Loss: molecular and phenotypic expansion of PPP1R12A-related disorder**

*Beatrice Spedicati<sup>(1)</sup> - Anna Morgan<sup>(1)</sup> - Livia Garavelli<sup>(2)</sup> - Giuseppe Giovanni Nardone<sup>(1)</sup> - Aurora Santin<sup>(1)</sup> - Giulia Pelliccione<sup>(1)</sup> - Giulia Pianigiani<sup>(1)</sup> - Paolo Gasparini<sup>(1)</sup> - Giorgia Giroto<sup>(1)</sup> (Trieste, Italy<sup>(1)</sup> - Reggio Emilia, Italy<sup>(2)</sup>)*

**P3.06.04 - Pendred syndrome and related phenotypes: the definition of a molecular diagnosis**

*Paola Tesolin<sup>(1)</sup> - Sebastian Roesch<sup>(2)</sup> - Silvia Dossena<sup>(2)</sup> - Sonny Zampollo<sup>(3)</sup> - Elisa Rubinato<sup>(1)</sup> - Davide Brotto<sup>(3)</sup> - Anna Morgan<sup>(1)</sup> - Giorgia Giroto<sup>(1)</sup> (Trieste, Italy<sup>(1)</sup> - Salzburg, Austria<sup>(2)</sup> - Padova, Italy<sup>(3)</sup>)*

**P3.06.05 - Vestibular Hair Cell Survival and Stereocilia Bundle Morphology in Usher Syndrome Type 1 Patients**

*Richard T. Osgood<sup>(1)</sup> - Divya A. Chari<sup>(1)</sup> - MengYu Zhu<sup>(1)</sup> - Jennifer T. O'Malley<sup>(1)</sup> - Wade Chien<sup>(2)</sup> - Cor Cremers<sup>(3)</sup> - Joseph B. jr Nadol<sup>(1)</sup> - M. Charles Liberman<sup>(1)</sup> - Alicia M. Quesnel<sup>(1)</sup> - Artur A. Indzhykulian<sup>(1)</sup> (Cambridge, MA, USA<sup>(1)</sup> - Bethesda, MD, USA<sup>(2)</sup> - Philippines<sup>(3)</sup>)*

**P3.06.06 - AAV2/7 is a Promising Vector to Transduce Spiral Ligament Fibrocytes in a Safe and Efficient Way**

*Dorien Verdoodt - Krystyna Szewczyk - Guy Van Camp - Peter Ponsaerts - Vincent Van Rompaey (Antwerpen, Belgium)*

**07. IMAGING AND ANATOMY****P3.07.01 - Transmission electron microscopy cochlear images in deficiency of mitochondrial tRNA modification mice**

*Toru Miwa - Tatsuya Katsuno (Kyoto, Japan)*

**P3.07.02 - Positron emission tomography-based in-vivo imaging of tissue responses in the cochlear implanted guinea pig**

*Jana Schwieger - Jana Petro - Jens P. Bankstahl - Claas-Tido Peck - Thomas Lenarz - Georg Berding - Verena Scheper (Hannover, Germany)*

**09. NANOTECHNOLOGIES****P3.09.01 - Efficiency of a dexamethasone nanosuspension as an intratympanic injection for acute hearing loss**

*Yoonho Kim - So-Young Jung - Dong-Kee Kim - Subin Kim (Seoul, Republic of Korea)*

**10. NOISE INDUCED HEARING LOSS****P3.10.01 - The Time Course of Monocytes Infiltration After Acoustic Overstimulation**

*Mi Hwa Shin - Haeng Ran Park - Minjin Kang - Hyoyeol Kim - Jinju Hong - Kangyoon Park (Seoul, Republic of Korea)*

**11. OTOPROTECTION****P3.11.01 - The effect of TrkB-selective agonist monoclonal antibody M3 on structure and function of the auditory nerve in deafened guinea pigs**

*Henk Vink<sup>(1)</sup> - Dyan Ramekers<sup>(1)</sup> - Alan Foster<sup>(2)</sup> - Huib Versnel<sup>(1)</sup> (Utrecht, Netherlands<sup>(1)</sup> - San Diego, CA, United States<sup>(2)</sup>)*

## 12. OTOTOXICITY

### **P3.12.01 - mTORC2 inhibitor JR-AB2-011 on drug-induced ototoxicity in HEI-OC1 cells**

*Michael Lanz - Maurizio Cortada - Soledad Levano - Daniel Bodmer (Basel, Switzerland)*

### **P3.12.02 - Ototoxic effects of drugs used in Covid-19 therapies in comparison to well-known ototoxic agent Cisplatin in male CBA JRJ mice**

*Sebastien Diot - Marion Souchal - Laetitia Leudiere - Gaëlle Naert - Sylvie Pucheu (Montpellier, France)*

## 13. PHARMACOLOGY OF INNER EAR

### **P3.13.01 - The Clinical Effect of Steroid Therapy on Preserving Residual Hearing after Cochlear Implantation with the Advanced Bionics HiRes Ultra 3D Cochlear Implant System**

*Magdalena Skarżyńska - Aleksandra Kotodziejak - Piotr Skarżyński - Elżbieta Gos (Kajetany, Poland)*

## 14. PHYSIOPATHOLOGY OF AUDITORY PATHWAYS

### **P3.14.01 - Involvement of hearing system in type 1 diabetes mellitus**

*Mihály Horváth - Marianna Küstel - László Tamás - Péter Prekopp - Zoltán Herold - Anikó Somogyi - Anita Gáborján (Budapest, Hungary)*

### **P3.14.02 - Machine-Learning-Based Audio Algorithms for Cochlear Synaptopathy Compensation: Which Speech Features are Enhanced?**

*Marjolleen Wouters - Fotios Drakopoulos - Sarah Verhulst (Ghent, Belgium)*

## 15. REGENERATION AND STEM CELLS

### **P3.15.01 - An inner ear organoid model of Meniere disease**

*Lidia Frejo Navarro - Francisca E. Cara - Alvaro Gallego-Martinez - Jose A. Lopez-Escamez (Granada, Spain)*

### **P3.15.02 - Proof of principle of extracellular vesicle application in a cochlea implantation trauma model with guinea pigs preventing fibrosis and residual hearing loss**

*Susanne Sasse<sup>(1)</sup> - Jennifer Harre<sup>(1)</sup> - Odett Kaiser<sup>(1)</sup> - Mario Gimona<sup>(2)</sup> - Eva Rohde<sup>(2)</sup> - Hinrich Staecker<sup>(3)</sup> - Thomas Lenarz<sup>(1)</sup> - Athanasia Warnecke<sup>(1)</sup> (Hannover, Germany<sup>(1)</sup> - Salzburg, Austria<sup>(2)</sup> - Kansas City, KS, USA<sup>(3)</sup>)*

## 16. TINNITUS

### **P3.16.01 -Neuroprotective Effect of Valproic Acid on Salicylate-Induced Tinnitus**

*Anji Song<sup>(1)</sup> - Gwang-Won Cho<sup>(1)</sup> - Karthikeyan A. Vijayakumar<sup>(1)</sup> - Changjon Moon<sup>(1)</sup> - Mary Jasmin Ang<sup>(1)</sup> - Jahae Kim<sup>(1)</sup> - Jahae Park<sup>(2)</sup>*

*(Gwangju, Republic of Korea<sup>(1)</sup> - Cheonan, Republic of Korea<sup>(2)</sup>)*



## 17. VESTIBULAR DISORDERS

### **P3.17.01 - Saccades Matter: Reduced need for caloric testing of cochlear implant candidates by joint analysis of v-HIT gain and corrective saccades**

*Constanza Fuentealba Bassaletti - Babette van Esch - Jeroen Briaire - Peter Paul van Benthem - Erik Hensen - Johan Frijns (Leiden, Netherlands)*

### **P3.17.02 - The infra-red utilization in therapy of Ménière disease**

*Elio Pagliarulo (Galatina, Italy)*

## 19. MISCELLANEOUS

### **P3.19.01 - A metabolomics-based approach to understanding the association between Sensorineural Hearing Loss and Mild Cognitive Impairment**

*Rita Malesci<sup>(1)</sup> - Domenico D'Errico<sup>(1)</sup> - Martina Lombardi<sup>(2)</sup> - Valeria Del Vecchio<sup>(1)</sup> - Matteo Delli Carri<sup>(3)</sup> - Laura Carrabba<sup>(1)</sup> - Tiziana Di Cesare<sup>(4)</sup> - Anna Rita Fetoni<sup>(1)</sup> - Jacopo Troisi<sup>(2)</sup> (Napoli, Italy<sup>(1)</sup> - Salerno, Italy<sup>(2)</sup> - Montecorvino Pugliano, SA, Italy<sup>(3)</sup> - Roma, Italy<sup>(4)</sup>)*

### **P3.19.02 - Penetrating the pars petrosa: investigating human migration using strontium isotope analysis in archeological inner ears**

*Barbara Veselka<sup>(1)</sup> - Heiko Locher<sup>(2)</sup> - John C.M.J. de Groot<sup>(2)</sup> - Gareth R. Davies<sup>(3)</sup> - Christophe Snoeck<sup>(1)</sup> - Lisette M. Kootker<sup>(3)</sup> (Brussels, Belgium<sup>(1)</sup> - Leiden, Netherlands<sup>(2)</sup> - Amsterdam, Netherlands<sup>(3)</sup>)*

### **P3.19.03 - Adaptation method of a speech test for children 3-7 years into a different language**

*Gergely Pál Vasvári - Tamás Hacki - Klára Vicsi - László Tamás - Anita Gáborján (Budapest, Hungary)*

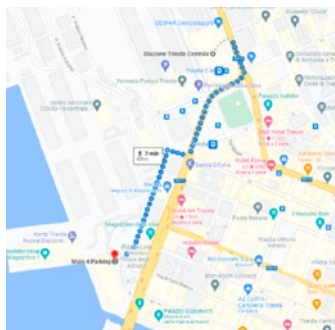
# GENERAL INFORMATION

## Venue

**Molo IV (Pier 4) – Trieste Terminal Passeggeri**

**Piazza Duca degli Abruzzi - Trieste**

*(600 mt from Trieste Railway Station)*



## Secretariat opening times

Sat 10 Sept.: from 11.00 to 19.00

Sun 11 Sept.: from 08.00 to 19.30

Mon 12 Sept.: from 08.00 to 16.00

Tue 13 Sept.: from 08.00 to 13.30

## Registration fees onsite

### Symposium only – Saturday, September 10<sup>th</sup>

<b>Participant</b>	free
<b>Student</b>	free

### Symposium and Workshop – September 10<sup>th</sup>- 13<sup>th</sup>

<b>Registration fees</b> <i>in Euro, 22% VAT included</i>	
<b>Participant</b>	€ 290,00
<b>Student*</b>	€ 230,00
<b>Social dinner – Monday, Sept. 12th</b> <b>Tenuta Villanova Winery - Farra d'Isonzo, Gorizia</b> <i>(50 km north of Trieste - transfer by bus included)</i>	€ 50,00

### **The registration fee includes:**

- Admission to the Scientific Sessions and the Exhibition Area
- Conference kit
- Abstract collection available online
- Opening Ceremony and Welcome Reception on Saturday, September 10
- Coffee breaks as shown in the program
- Certificate of attendance

### **Conference language**

The official conference language is English.

### **Access to the conference site**

Participants should wear the identification badge collected at the Registration Desk during all conference sessions and events.

### **Certificate of Attendance**

All registered participants will receive a certificate of attendance by e-mail after the conference.

### **ECM Italy - Educazione Continua in Medicina**

CME accreditation with the Italian Ministry of Health (ECM, for Italian participants) has been made as follows:

#### **SYMPOSIUM "Genes, genomes and hearing: from basic research to therapy" 10 September 2022**

Categories: Biologist; Physician (disciplines of Audiology and Phoniatrics, Otolaryngology, Neurology); and for Audiometrists, Audio Prosthetists and Speech Therapists.

Event no. 211-362441 - **1,2 Italian ECM credits assigned.**

#### **57<sup>th</sup> Inner Ear Biology Workshop 11-13 September 2022**

Categories: Biologist; Physician (disciplines of Audiology and Phoniatrics, Otolaryngology, Neurology); and for Audiometrists, Audio Prosthetists and Speech Therapists.

Event no. 211-362439 - **5,1 Italian ECM credits assigned.**

### **Presenter guidelines**

#### ***Oral Communications***

The duration of each oral presentation is **12 minutes plus 3 minutes for questions and answers**. Target Lectures will have **30 minutes** inclusive of discussion. Presenters are requested to adhere strictly to the allocated speaking time. Speakers should contact the technicians in the "Slide Center" to upload their presentations at least two hours before the beginning of their session or in the afternoon of the day before, in case of early morning presentations. Those with Apple-based presentations should make sure they are saved in a PC-compatible format. Speakers will not be allowed to use their own laptop.

## Posters

Poster size (maximum dimensions):

100 cm (width) x 170 cm (height) – portrait orientation

Posters will be on display for informal viewing throughout the Workshop; poster presenters are required to be by their posters during the **Poster Sessions, scheduled during the lunch breaks on Sunday, 11 and Monday, 12 September and from 18.30 to 19.30 on Sunday, 11 September.**

Posters can be put up from 11.00 a.m. on Saturday, September 10 on the poster board corresponding to the assigned poster number - please check on the Final Program at the Conference.

They will have to be removed by the end of the meeting. The IEB Workshop is not responsible for posters and materials left after the end of the congress.

## Spoendlin Award

This year four Spoendlin Junior Awards will be assigned to young researchers, each of 500,00 EUR value.

Candidates are required to submit a draft of a manuscript related to the abstract they submitted to the Symposium & 57th Inner Ear Biology Workshop. The manuscript should contain non-published or just submitted original research. Winners will be announced during the Spoendlin Award Ceremony, that will be held on Monday, September 12, 2022, at 04.00 p.m.

## Disclaimer/Liability

The Organisers are not liable for injuries to participants and/or accompanying persons, nor for any loss of, or damage to, luggage and/or personal belongings of participants and/or accompanying persons. No claim is made as to the accuracy and reliability of what reported on the website.

## SOCIAL EVENTS

### Saturday 10 September

#### Opening Ceremony

The Opening Ceremony will take place on 10 September at the conference venue (Molo IV) starting at 16.55, after the conclusion of the Satellite Symposium, with the **welcome addresses** from the Authorities that will introduce the IEB Symposium “Genetics of hearing loss and innovative therapies”.

At 19.30 there will be a **Piano concert** by Maestro Davide Santacolomba, followed by a **Welcome Reception**, open to all registered participants.

#### Maestro Davide Santacolomba

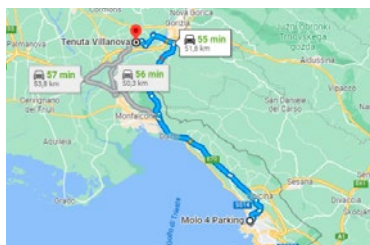
*An Italian pianist, born in Palermo, he only took up piano studies at the age of 14, discovering five years later his hearing problems. He graduated with top marks and honours. Praised by the public and the critics for the ‘extremely rare musical sensitivity of his interpretations and his charisma’, Davide Santacolomba came to popular attention following his numerous appearances in the world of television and news. To this day, he is considered by many internationally renowned doctors and scientific luminaries to be the only pianist with hearing impairment in the world to have reached a high professional artistic level, and for this reason he is often invited as a testimonial for events of worldwide importance concerning hearing impairment. He currently holds the position of piano teacher at the Conservatorio ‘A. Corelli’ in Messina.*

### Monday 12 September

#### Social dinner

The Social Dinner on 12 September will take place at the **Tenuta Villanova**, an ancient winery in the Friuli Venezia Giulia Region, about 50 km from Trieste. Transportation by GT coach will be provided. Departure from the conference venue **at 16.30**, return to Trieste around midnight.

*Please note that departure will be just after the end of the daily sessions, so please consider there will be no time for participants to get back to the hotel before departing for Tenuta Villanova.*



#### The winery Tenuta Villanova

*Founded in 1499, Tenuta Villanova is nowadays the longest-living winery of Friuli Venezia Giulia. The property covers approximately 495 acres, from the high banks of Isonzo river, to the Collio hills. Tenuta Villanova produces excellences in both sectors of wine and distillation.*

#### Rate per person: 50 eur

*The rate includes GT coach and social dinner. Dress code: informal*



The Organizers gratefully acknowledge for their unconditioned support  
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