

SAVE the Date.

Innovations for Hearing Restoration

Innovaciones en el tratamiento de la audición

Presidentes: Olivier Sterkers y Bernard Fraysse

**Friday 9 and Saturday 10 December
2022**

Viernes 9 y Sábado 10 de diciembre 2022

Cloud Business Center

10 bis Rue du 4 septembre - 75002 Paris

Día 1: Viernes 9 de diciembre 2022


8:00 Ouverture du congrès
Presidentes: Olivier Sterkers, Bernard Fraysse et Amaury Dutreil

Session 1


Hearing loss from basic research to therapeutic outcomes

La pérdida auditiva desde la investigación básica hasta los resultados terapéuticos


Presidents: Alessandro Martini, Brigitte Malgrange, Jean-Luc Puel

8:30 Lecture: Aged hearing-loss patient is unique, presbycusis is plural  Jean-Luc Puel


8:50-10:10 Innovations

8:50 Metabolomic profile of perilymph  David Bakhos

9:05 Oxidative stress and inflammation  Anna Rita Fetoni

9:20 Neuron survival  Brigitte Malgrange

9:35 Top-down interactions in deafness  Andrej Kral

9:50 Molecular perilymph diagnostics: A window of opportunity  Athanasia Warnecke


10:10-10:40 Coffee break

Session 2


Hearing loss from basic research to therapeutic outcomes


La pérdida auditiva desde la investigación básica hasta los resultados terapéuticos


Presidents: Andrej Kral, Michel Mondain, Hung Thai-Van


10:40 Lecture: Newborn hearing screening  Michel Mondain


11:00-12:30 Innovations

11:00 Artificial intelligence for deafness  Jérôme Bourien

11:15 3D anatomy of the human cochlea through contrast-enhanced microCT and optical coherence tomography  Nicolas Verhaert

11:30 New candidate genes for hearing  Nicola Quaranta

11:45 Auditory Neuropathy  Hung Thai-Van

12:00 Testing hearing in noise  Christophe Vincent

12:30-14:00 Lunch

Session 3

Intracochlear Therapy

Terapia Intracoclear

Presidents: Stefan Plonkte, Marta Roccio, Jing Wang

14:00 **Lecture:** Local inner ear drug delivery systems 🗣️ Stefan Plonkte

14:20-16:05 Innovations

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| 14:20 | Models for inner ear therapy | 🗣️ Marta Roccio |
| 14:35 | Cochlear access for stem cell therapy | 🗣️ Gérard O'Donoghue |
| 14:50 | Cochlear implant delivery in macaca fascicularis | 🗣️ Raquel Manrique Huarte |
| 15:05 | Round window gel application | 🗣️ Elisabeth Mamelle |
| 15:20 | Regeneration therapy | 🗣️ Philippe Lefebvre |
| 15:35 | Gene therapy | 🗣️ Ghizlene Lahlou |
| 15:50 | Cochlear print, a proof-of-concept study | 🗣️ Sébastien Schmerber |

Session 4

Robot-based Surgery in Otology

Cirugía Robótica en Otolología

Presidents: Marco Carversaccio, Daniele de Seta, Yann Nguyen

16:10 **Lecture:** Direct robot and navigated access to cochlea 🗣️ Marco Carversaccio

16:30-17:50 Innovations

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| 16:45 | Autonomous robotic cochlear implant surgery | 🗣️ Vedal Topsakal |
| 17:00 | Robot-assisted atraumatic electrode insertion | 🗣️ Daniele de Seta |
| 17:15 | Robot-based cochlear implantation under fluoroscopy | 🗣️ Thierry Mom |
| 17:30 | Robot-based electrode insertion in children | 🗣️ Rémi Marianowski |
| 17:45 | Digisurge: a multiorgan transorificial 3-arms robot | 🗣️ Bertrand Lombard |

18:00-19:00

Round table I: How to transfer innovation from bench to clinical application?

¿Cómo transferir la innovación del laboratorio a la aplicación clínica?

Moderators: Paul Avan and Alessandro Martini.

Marco Carvesacio, Thomas Lenarz, Angel Ramos, Philippe Lefebvre, Yann Nguyen, Jean-Luc Puel.


Día 2 : Sábado 10 de diciembre 2022

Session 5

Conductive and Mixed Hearing loss


Hipoacusia Conductiva y Mixta


Presidents: Maurizio Barbara, Françoise Denoyelle , Karl-Bern Huttenbrick


8:30 **Lecture:** Fully implantable middle ear implants  Maurizio Barbara


8:50-10:05 **Innovations**

8:50 Middle ear implant for ear atresia  Françoise Denoyelle

9:05 Rehabilitation of radical cavities  Daniele Bernardeschi

9:20 Bone conduction implants in mixed hearing loss  Milan Profant

9:35 Vibroplasty: Management of couplers and positioning implantations  Thomas Zahnert

9:50 Decision making for hearing restoration  Benoit Godey


10:10-10:40 **Coffee break**

Session 6


Single-Side and Asymmetric Hearing loss


Pérdida auditiva unilateral y asimétrica

Presidents: Paul Van de Heyning, Benoit Godey

10:40 **Lecture:** 20 Years of Cochlear Implantation in Single Sided Deafness  Paul Van de Heyning

11:00-11:30 **Innovations**

11:00 Active Transcutaneous Bone Conduction Implant  Christof Roosli

11:15 Best hearing restoration  Mathieu Marx




11:30-12:30

Round Table 2: How deaf people could have the best information on innovations in hearing rehabilitation?

¿Cómo podrían tener la mejor información sobre las innovaciones las personas sordas?

Moderators: Gerard O'Donoghue and Mark Laureyns.

Olivier Deguine, John Fenton, Emmanuel Lescanne, Milan Profant, Johanna Savin, Ago Serra, Hung Thai-Van.

11:15	Introduction:	 Johanna Savin
11:30	Hearing Rehabilitation with Humanoid Robot : the H2R2 project	 Olivier Deguine
11:45	Conclusion: How can we leverage the World Report on Hearing (WHO) to minimize the impact of untreated hearing loss?	 Mark Laureyns







12:30-14:00 Lunch

Session 7

Cochlear Implants for Profound Hearing loss

Implantes cocleares para pérdidas auditivas profundas

Presidents: Ángel Ramos, Natalie Loundon, Gaetano Paludetti

14:00	Lecture: Cochlear implantation in children	 Natalie Loundon
14:20-15:35	Innovations	
14:20	Cochlear explantation and re-implantation	 Eric Truy
14:35	CI in immune-mediated inner ear disease	 Patrizia Mancini
14:50	CI in elderly and cognition	 Isabelle Mosnier
15:05	Dual stimulation in adult patients with profound sensorineural hearing loss and bilateral vestibulopathy using a chronic electrical stimulation of the otolith organ.	 Angel Ramos
15:20	Classification of electrode array translocations	 Renato Torres

Session 8

Extended indications of Cochlear Implants

Indicaciones extendidas de los Implantes Cocleares

Presidents: Thomas Lenarz, Manuel Manrique, Domenico Cuda

15:40	Lecture: The cochlear implant system of the future	👤 Thomas Lenarz
16:00-17:30	Innovations	
16:00	Delayed CI for pre-lingual deafness	👤 Hannah Daoudi
16:15	Electro-acoustic CI for partial deafness	👤 Piotr Skarzynski
16:30	Dedicated bimodal fitting of unilateral CI (CI fine tuning: new perspectives)	👤 Domenico Cuda
16:45	CI for fluctuating HL and Menière's disease	👤 Francesca Russo
17:00	CI and Vestibular Schwannomas	👤 Luis Lassaletta
17:15	Management of Intralabyrinthine Schwannoma: How Much Cochlea Do You Need for CI and Are the Vestibular and Cochlear Parts of the Inner Ear Inseparably Connected?	👤 Stefan Plonkte

17:30

Conclusive remarks: Bernard Fraysse and Olivier Sterkers