Wednesday 8th June 2022

15.00 Registration. Escales d'Honor.

   Carles Escera - University of Barcelona, Catalonia, Spain.
   Nina Kraus - Northwestern University, Evanston, USA.

17.00 Keynote lecture 1. Aula Magna. Chair: Natàlia Gorina-Careta
   The multilayered FFR: Insights from studies of bilingual populations.
   Erika Skoe - University of Connecticut, USA.

18.00 Reception. Jardí de la Diputació.

Thursday 9th June 2022

Morning sessions (Talks 1-4)
Chair: Jordi Costa Faidella – University of Barcelona, Catalonia, Spain.

9.00 Talk 1. Aula Magna.
   A Multidisciplinary Review of Frequency Following Response Analysis with
   Machine Learning Decoding Models.
   Isabelle Arseneau-Bruneau – McGill University, Montreal, Canada.
Contribution of primary auditory cortex to scalp-recorded envelope following responses in the macaque monkey.
Tobias Teichert - University of Pittsburgh, USA.

10.00 Coffee break with exhibitors & Poster session. Galería del Claustre.

10.45 Talk 3. Aula Magna.
Individual differences in frequency-dependent fluctuations in the FFR amplitude.
Luan Tonelli - University of Connecticut, USA.

Frequency-following response is altered by brain state but not by sleep events.
Hugo R. Jourde - Concordia University, Canada.

11.45 Break. Galería del Claustre.

12.00 Keynote lecture 2. Aula Magna. Chair: Sonia Arenillas-Alcón
Frequency-Following Responses to Speech: Neural Sources and Modulatory Influences.
Bharath Chandrasekaran - University of Pittsburgh, USA.

13.00 Lunch. Jardí Central.

Afternoon sessions (Talks 5-8)
Chair: Clement François – Aix-Marseille University, Aix-en-Provence, France.

14.00 Talk 5. Aula Magna.
Frequency following response deficits in infants with hyperbilirubinemia: A model for diagnostic utility of the FFR.
Gabriella Musacchia – University of the Pacific, San Francisco, USA.

Detection of abnormal neural encoding of speech sounds at birth using the frequency-following response.
Teresa Ribas-Prats – University of Barcelona, Catalonia, Spain.
15.00  Break. *Galeria del Claustre.*

15.15  Talk 7. *Aula Magna.*
Selective brain response to voices at four months of age.
Roberta Pia Calce – *University of Louvain, Belgium.*

15.45  Talk 8. *Aula Magna.*
Neural plasticity induced by music begins before birth: evidence from neonatal frequency-following responses.
Sonia Arenillas-Alcón – *University of Barcelona, Catalonia, Spain.*

16.15  Poster Session. *Galeria del Claustre* (until 17.00).

**Friday 10th June 2022**

**Morning sessions (Talks 9-12)**
Chair: Warren Michael Henry Bakay – *University of Manchester, Manchester, United Kingdom.*

9.00  Talk 9. *Aula Magna.*
Musical and linguistic implications of the modulatory role of the SLC6A4 and DRD4 genes on subcortical pitch encoding.
Marc Via – *University of Barcelona, Catalonia, Spain.*

Auditory brainstem response evoked by speech sound as a predictor of behavioural performance in children with Auditory Processing Disorders, a pilot study.
Amineh Koravand – *University of Ottawa, Canada.*

10.00  Coffee break with exhibitors & Poster session. *Galeria del Claustre.*

Pitch tracking measurements: Exploring the most informative predictor for musical, phonological and audiological skills.
Gianinna Puddu-Gallardo – *University of Barcelona, Catalonia, Spain.*
11.15 **Talk 12. Aula Magna.**
Peripheral frequency following responses in young and older participants using electrocochleography.
Miguel Temboury Gutiérrez – Technical University of Denmark (DTU), Denmark.

11.45 **Break. Galeria del Claustre.**

12.00 **Keynote lecture 3. Aula Magna (virtual).** Chair: Carles Escera
Teaching an old dog new tricks: New innovations in the frequency-following response (FFR) to characterize online changes in brainstem-cortical function necessary for robust speech perception.
Gavin Bidelman - University of Memphis, USA.

13.00 **Lunch. Jardí Central.**

**Afternoon sessions (Talks 13-14)**
Chair: Marta Puertollano

14.00 **Talk 13. Aula Magna.**
Rapid Responses to Auditory Frequency Change, Its Magnitude and Direction – from Brain Processing to Action.
Amos David Boasson – The Hebrew University of Jerusalem, Israel.

14.30 **Talk 14. Aula Magna.**
The brain automatically categorizes discrete auditory emotion expressions.
Siddharth Talwar - University of Louvain, Belgium.

15.00 **Break. Galeria del Claustre.**

15.15 **Workshop / Quiz. Aula Magna.** Chair: Teresa Ribas-Prats
Analyzing the FFR.
Jen Krizman – Northwestern University, Evanston, USA.

16.15 **Coffee break. Galeria del Claustre.**
16.30 **Round table. Aula Magna.**

**Chair:**
Nina Kraus - *Northwestern University, Evanston, USA.*

**Participants:**
Manuel Sánchez Malmierca - *University of Salamanca, Spain.*
Jordi Costa-Faidella - *University of Barcelona, Catalonia, Spain.*
Erika Skoe - *University of Connecticut, USA.*
Bharath Chandrasekaran - *University of Pittsburgh, USA.*

18.00 **Closing Remarks. Aula Magna.**

Carles Escera - *University of Barcelona, Catalonia, Spain.*
Nina Kraus - *Northwestern University, Evanston, USA.*

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