

8-10 June 2022 - University of Barcelona *Catalonia, Spain*

Wednesday 8th June 2022

- **15.00 Registration.** *Escales d'Honor.*
- **16.45** Welcome / Opening Remarks. Aula Magna.

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

17.00 Keynote lecure 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.

9.30 Talk 2. Aula Magna.

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, Galeria del Claustre.
- 10.45 Talk 3. Aula Magna.

Individual differences in frequency-dependent fluctuations in the FFR amplitude.

Luan Tonelli - University of Connecticut, USA.

11.15 Talk 4. Aula Magna.

Frequency-following response is altered by brain state but not by sleep events.

Hugo R. Jourde - Concordia University, Canada.

- 11.45 Break. Galeria 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.

14.30 Talk 6. *Aula Magna.*

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.

9.30 Talk 10. *Aula Magna*.

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.

10.45 Talk 11. Aula Magna.

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.*

Gold Sponsors







Gold Donator



Institutional support









