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## BARCCSYN 2023: SCHEDULE



**THURSDAY**  
May 25th

**FRIDAY**  
May 26th

9:00

9:20

9:20

9:30

**Registration**

**Opening Remarks**

**Contributed talk**

**Plenary talk**

9:30

10:00

*Age-related myelin  
dystrophy impairs signal  
transmission in a  
pyramidal neuron model  
and working memory in  
a network model of the  
prefrontal cortex*

*Planning and serial  
reasoning in premotor  
cortex*

**Maurizio Mattia**

Italian National Institute of  
Health (ISS)

**Sara Ibañez**

Centre de Recerca  
Matemàtica

(CRM)

**Contributed talk**

10:00 Interhemispheric serial dependence in working memory in prefrontal cortex

**Melanie Tschiersch**  
IDIBAPS

10:30 **COFFEE BREAK + Group Photo**

**COFFEE BREAK**

11:00 **Poster Session (Day 1)**

**Poster Session (Day 2)**

12:30

**Contributed talk**

12:30 Spatial transcriptomics whole-brain modelling explains non-linear functional effects of atomoxetine by a receptor binding affinity principle

**Martí Monge-Asensio**  
Universitat Pompeu Fabra (UPF)

**Contributed talk**

Corticostriatal processing resolves the conflict between context and dominance apparent in the prefrontal cortex

**Silvia Vilariño León**  
Universitat Politècnica de València

**Contributed talk**

13:00 Whole-brain analyses reveal the impairment of posterior integration and thalamo-frontotemporal broadcasting in disorders of consciousness

**Gorka Zamora**  
Universitat Pompeu Fabra (UPF)

**Contributed talk**

Learning to infer transitively: ranking symbols on a mental line in premotor cortex

**Sofia Raglio**  
Sapienza University of Rome

13:30

**LUNCH**

15:30

**Contributed talk**

15:30

*A Theoretical  
Formalization of  
Consequence-Based  
Decision-Making*

16:00

**Gloria Cecchini**

Universitat de Barcelona  
(UB)

**Contributed talk**

*Unifying Strong and  
Weak Pyramidal-  
Interneuronal-Gamma  
(PING) Rhythms with a  
fully solvable model of  
phase oscillators*

**Pau Pomés Arnau**

Universitat Pompeu Fabra  
(UPF)

16:00

16:30

**Contributed talk**

*Single-cell analysis of  
neurodevelopment in  
Huntington's disease*

**Jordi Abante**

Universitat de Barcelona (UB)

**Plenary talk**

*Emergence of  
organization and  
computation in neural  
circuits across scales*

**Julijana Gjorgjieva**

Technische Universität  
München

16:30

17:00

**Contributed talk**

*Liquid state computing  
in neuronal cultures:  
effects of noise and  
connectivity modularity  
on response separation  
and generalisation in  
numerical simulations*

**Akke Mats Houben**

Universitat de Barcelona (UB)

17:00

**Poster Session (Day 1)  
+ Refreshments**

18:30

**Poster Session (Day 2)  
+ Refreshments**

18:30

**Closing Remarks and  
prizes**

18:45

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