



SCIENTIFIC DIALOGUES

ACADEMIA EUROPAEA BARCELONA KNOWLEDGE HUB

FRONTIERS OF SCIENCE AND TECHNOLOGY IN SOCIETY

Frontiers 1: 04-10-2023 at 18.00 h to 19.30 h

Understanding the brain: neurobiology or neuro computer sciences?

Royal Academy of Sciences and Arts of Barcelona (RACAB)

La Rambla, 115, 08002 Barcelona

Starting with the work of Cajal more than 100 years ago, neuroscience has sought to understand how the cells of the brain give rise to cognitive functions. How far has neuroscience and more precisely neurobiology, progressed in this endeavour? On the other side, to learn how cognition is implemented in the brain, computational neuroscience has built computational models that can perform cognitive tasks, and test such models with brain and behavioural experiments.

Neurobiology, psychology and computational neurosciences are different approaches to the study of the brain, even if the Human Brain Project (funded by the European Union) has mainly invested in computational aspects. Deciding where to allocate funding for brain research between neurobiology and computational neuroscience depends on various factors, including research goals, available expertise, technological advancements, and the specific questions being pursued. Where are we now? Is there a conflict or is there a balanced approach that supports collaboration between these fields?

In case you cannot attend, it will be online clicking [here](#)

Moderator:

Núria Sebastian, UPF, Barcelona

Invited speakers/discussants:

Mara Dierssen, Center for Genome Regulation, Barcelona

Gustavo Deco, ICREA at UPF, Center of Brain and Cognition, Barcelona

We hope you will join us!

For further information: aebarcelona@fundaciorecerca.cat

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