

Nathalie ROUACH

Research Director at INSERM

Nathalie Rouach is a neurobiologist developing research on the role of glial cells in brain physiology and pathologies. She runs a laboratory within the Interdisciplinary Center for Research in Biology at the Collège de France, whose research aims to determine whether and how astrocytes play a direct role in information processing. In particular, she explores the molecular modalities and functional consequences of neuron-glia interactions in various physiological and pathological contexts, such as memory, social interactions, epilepsy or intellectual disability, with *ex vivo* and *in vivo* studies of neuronal excitability, synaptic transmission and plasticity, synchronization of neuronal networks, and cognitive functions in mouse models or human tissues. She is a member of several scientific councils and has received several awards including the Human Frontier Career Development award, Emergence of the City of Paris and ERC Consolidator grant. She is the author of more than 70 publications in peer-reviewed journals.