Rachel Breton

Neuroglial Interactions in Cerebral Physiology and Pathologies, CIRB, Collège de France
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Education and Research experiences

2019 – Present **Ph.D. student in Neurobiology** – Paris Saclay University, France
Under the supervision of **Nathalie Rouach** (CIRB, Collège de France) and **Glenn Dallérac** (Institute of Neurosciences Paris-Saclay, NeuroPSI)
Role of astrocytes in the plasticity of synaptic circuits during critical periods of development

2018 – 2019 **2nd year M.Sc. in Neurosciences** – Paris Descartes University, France
6 months internship in **Nathalie Rouach Laboratory** (CIRB, Collège de France)
Role of astrocytes in the plasticity of synaptic circuits during critical periods of development

2017 – 2018 **1st year M.Sc. in Cell biology, physiology, physiopathology** – Paris Descartes/Diderot Universities, France
2 months internship in **Cendra Agulhon Laboratory** (INCC, Paris-Descartes)
Understand the role of astrocytic signaling at an adult stage in the visual cortex

2014 – 2017 **B.Sc. in Life Science** – Sorbonne University

Conferences participation

2022 October **26th meeting of the French glial cell club**, Sète, France
Poster presentation : A role for astrocytes in the visual cortex critical period

2022 July **Federation of European Neuroscience Societies (FENS) 2022**, Paris, France
Poster presentation : A role for astrocytes in the visual cortex critical period

2021 July **XV European Meeting on Glial Cells in Health and Disease**, Online
Poster presentation : A role for astrocytes in the visual cortex critical period

Fellowships and Awards

2022 **Fondation l'Oréal/UNESCO**, For women in Science award, Young Talents France 2022

2022 **Fondation de France**, Allocation jeunes chercheurs en Ophtalmologie (4th year Ph.D.)

2019 **French Ministry of Higher Education and Research** (3 years Ph.D. fellowship, Biosigne, Paris-Saclay doctoral school)

Publications

Ribot J*, **Breton R***, Calvo CF, Moulard J, Ezan P, Zapata J, Samama K, Moreau M, Bemelmans AP, Sabatet V, Dingli F, Loew D, Milleret C, Billuart P, Dallérac G# , Rouach N# . Astrocytes close the mouse critical period for visual plasticity. 2021. Science. 373, 77- 81.

J. Ribot, **R. Breton**, G. Dallérac, N. Rouach « Les astrocytes, gardiens de la plasticité de la période critique ». 2022. Med Sci (Paris). 38(3) :251-254.

Other activities

Oct. 2021 – Jul. 2022 **Member of the organizing team of the « CIRB seminars »**
Comittee organizing weekly seminars to present Ph.D. students and Post-doc work (CIRB, Collège de France)

Oct. 2021 **Participation to the « Fête de la Science »**
Creation of a workshop introducing the role of astrocytes to people