



Senior Scientist

EPFL

Lausanne, Switzerland

Education & Training

MSC. CELLULAR & MOLECULAR BIOLOGY

2015 - 2017

University of Turin - Torino

DOCTOR OF PHILOSOPHY

2017-2022

Johannes Gräff Lab

EPFL - Lausanne, Switzerland

POSTDOCTORAL RESEARCH FELLOW

2023-2024

Johannes Gräff Lab

EPFL - Lausanne, Switzerland

SENIOR SCIENTIST

2024 - Present

Fides Zenk Lab

EPFL - Lausanne, Switzerland

GIULIA

SANTONI

Profile

A major drive of Dr. Giulia Santoni's research is a long-lasting question in neuroscience: how are memories encoded in the brain? She showed that epigenetics - i.e., non-hereditary modifications of DNA - play a major role in determining which neurons become part of the circuit encoding for a memory. This finding is vital to our current understanding of how neurons get recruited to form a memory. Currently, she continues her research on epigenetics in brain organoids, which are small models of the developing brain.

Articles

- Chromatin plasticity predetermines neuronal eligibility for memory trace formation
- How epigenetics influence memory formation
<https://actu.epfl.ch/news/how-epigenetics-influence-memory-formation/>
- Nutritional metabolism and cerebral bioenergetics in Alzheimer's disease and related dementias



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