Stanford

Viviana Macarelli

Postdoctoral Scholar, Bioengineering

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BIO

Viviana earned her PhD in Clinical Biochemistry from the University of Cambridge (UK) in 2024, where she focused on the role of primary cilia in metabolic sensing by the hypothalamus. She then joined the Lundberg lab as a postdoc for a project in collaboration with the Chan Zuckerberg Imaging Institute. She will focus on characterizing primary cilia in the adult brain using human induced pluripotent stem cells (hIPSC).

STANFORD ADVISORS

- Emma Lundberg, Postdoctoral Faculty Sponsor

LINKS

- https://lundberglab.stanford.edu/: https://lundberglab.stanford.edu/

Publications

PUBLICATIONS

- **Galectin-3 induces neurodevelopmental apical-basal polarity and regulates gyrification.** *Science advances*
  Soares, L. C., Huang, N., Bernhardova, H., Macarelli, V., Chan, M., Nikel, L., Bandiera, S., Yan, D., Gupta, D., Cruz, E. M., Vasaturo-Kolodner, T., Hillis, J. M., Wood, et al
  2025; 11 (36): eadt5859

- **A Short Sequence Targets Transmembrane Proteins to Primary Cilia.** *Cells*
  Macarelli, V., Harding, E. C., Gershlick, D. C., Merkle, F. T.
  2024; 13 (13)

- **GLP1R agonists activate human POMC neurons** *bioRxiv*
  Mazzaferro, S., et al
  2024

- **Regulation of the length of neuronal primary cilia and its potential effects on signalling.** *Trends in cell biology*
  Macarelli, V., Leventea, E., Merkle, F. T.
  2023; 33 (11): 979-990

- **Metformin acts directly in the brain to slow features of neurodegeneration** *bioRxiv*
  Harding, E. C., et al
  2023