

One postdoctoral position for the study of intracellular mechanisms of thyroid hormone action in neural cells at the laboratory of Professor Federico Salas-Lucia

Position: Postdoctoral Scholar
Deadline: 30 April 2025
Employment Start Date: September 1st, 2025
Contract Length: 24-48 months
Salary: [NIH NRSA stipend scale](#)
City: Chicago
Country: United States
Institution: The University of Chicago
Department: Medicine

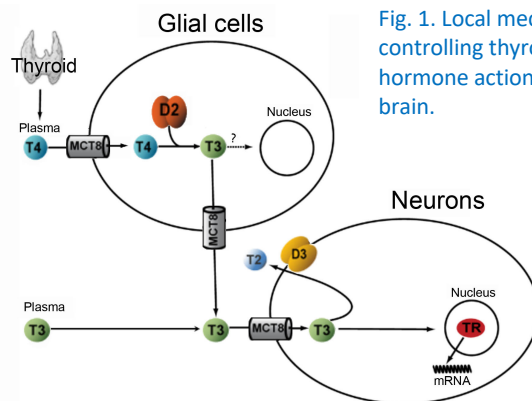


Fig. 1. Local mechanisms controlling thyroid hormone action in the brain.

Description:

The Salas-Lucia laboratory explores local cellular mechanisms that can customize thyroid hormone action in the human brain. These mechanisms involve three components: the thyroid hormone cell membrane monocarboxylate transporter 8 (MCT8) and the type 2 and type 3 deiodinase (D2 and D3; **Fig. 1**). These components work together to rapidly enhance/reduce TH action by regulating the amounts of locally available thyroid hormones in neural cells. We are looking for one Postdoctoral scholar excited to work at the interface of endocrinology and neurobiology to explore new mechanisms of thyroid hormone action in human cerebral cortex development and brain immune responses.

The new laboratory member will conduct research using an array of cellular and animal models and state-of-the-art approaches. We use human pluripotent stem cells to generate neural cells and cerebral organoids and have several transgenic mice models. To interrogate these models, we use single-cell, spatial, and bulk RNA-seq analysis. We also use *in vivo* fluorescence imaging and confocal and super-resolution fluorescence microscopy and perform molecular and biochemical assays routinely. The researcher will also have the opportunity to participate in other projects and collaborate with our team. Furthermore, the laboratory members regularly present their results in local meetings as well as national and international conferences.

Candidate requirements:

The candidate should hold a PhD in Neuroscience, Biochemistry, Molecular Life Science, or a related area and have a strong interest in Neurobiology and Endocrinology. Competency in handling cells and mice and conducting cellular and molecular experiments is an advantage. We expect the candidate to have experience and commitment to leading a scientific project and support the supervision of research staff, including graduate and undergraduate students. In addition, the candidate will assist with writing grant proposals and progress reports.

Contact information:

Please send your application to the lead contact, Prof. Federico Salas-Lucia, PhD fsalaslucia@uchicago.edu. Please include (i) a short cover letter (max. one page), (ii) your CV, and (iii) the names and contact information of two references.