



The Office of Research for Medical Students

Research Project

Project Title:

Midbrain Neuroinflammation in Schizophrenia

Date of request: 09/12/2025

Contact Information

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Resident? No

Research Project

In schizophrenia, dopamine neuron dysfunction appears to be linked to tissue inflammation caused by non-neuronal cells. At the resolution of single cells, we will determine which cytokine pathways glial and immune cells use to damage dopamine neurons during midbrain inflammation. This will help identify the best anti-inflammatory treatments for people with schizophrenia and allow us to better select appropriate patients to treat with these novel agents and to better follow over time using blood biomarkers.

Research Location: NRB

Tele-research/remote opportunity? Yes

Will it require students to be physically present in the research location? YES

Type of research: Translational

Summer project? Yes

Long-term project: Yes

Availability required to work on your project(s):

As many hours as possible

Prior experience or specific skills required to work on your project(s):

Bioinformatics, molecular biology, neurobiology, immunology, statistics, excel, R.