ADRC Participant Access Request

Access Request Goal

Goal - Preliminary inquiry for further discussion

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Study and Theme Details

Hypothesis

Our central hypothesis is that expression levels of VEGF impact vascular health in the brain and that of the HIF-VEGF signaling axis activation is protective against neurocognitive decline in ADRD.

Specific Aims

Aim 1: Assess the mechanism of anti-VEGF therapy in the development of neurocognitive decline in mouse models.
Determine how the PHD-specific inhibitor, Roxadustat/FG-4592, regulates neurocognition using the HIF-VEGF pathway.

This study is not related to Deep South disparities

Funding and IRB Details

Funding source - Not yet funded

IRB Contact - Not yet discussed project with IRB

Subject Sample Size and Profile

Sample size by cognitive ability

Normal Controls	10
Preclinical AD	10
MCI	10
Mild Dementia	10
Moderate to Severe	10
Total N	**50**

Additional inclusion/exclusion details

For the first experiment, we would like to check the gene expression of HIF–1a, VEGFa, EPO, HO-1, ADM, and Glut-1 in the bio-samples at different AD disease stages.

Racial minorities and other stratifcation

This study does NOT test hypothesis on racial disparities

Requested Resources

Existing data

Demographics	If available
Medical History	If available
Social Determinants	If available
Clinical Exam	If available
Cognitive Testing	If available
MRI Values	If available
Amyloid PET Values	If available
Tau PET Values	If available
Raw MRI/PET Image Files	If available
CSF	If available
Blood Test	If available
AD Blood Biomarkers	If available
Genetics	If available

Human subject involvement

Study procedures

If you have the RNA extraction, it will be great. If we could have the samples, which will work for us too.

Study duration

2 months

No compensation listed in survey

Banked biospecimen

Blood

Plasma (100 ul)

Serum (100 ul)

RNA

Other fluid

CSF (100 ul)

Cells

PBMC

Brain tissue

Fixed

Region (Cortex and hippocampus)

Statistical support

Would like to discuss statistics with the ADRC