

# ADRC Participant Access Request

## Access Request Goal

Goal - Formal request for ADRC data

## Principal Investigator

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No Co-PI listed in survey

# Study and Theme Details

## Hypothesis

We hypothesize that skin tau and aSyn detected by RT-QuIC are novel biomarkers for early and differential diagnosis of mixed tauopathies/synucleinopathies (AD/ADRД) in routine clinical practice.

## Specific Aims

1) Establish dual skin RT-QuIC biomarker assays for mixed tauopathies/synucleinopathies using neuropathologically confirmed cases; 2) Assess skin tau and aSyn detected by RT-QuIC as reliable biomarkers for premortem diagnosis of mixed tauopathies and synucleinopathies; and 3) Evaluate skin tau/aSyn biomarker assays for improving the differential diagnosis of mixed tauopathies/synucleinopathies through longitudinal follow-up.

This study is not related to Deep South disparities

## Funding and IRB Details

Funding source - Already funded

Entity - NIH funded grant/application

Details - NIH R01AG082352

Secondary entity - NIH funded grant/application

Secondary details - NIH R01NS118760

IRB Contact - Yes, we have IRB approval

IRB Protocol # - 300010826

## Subject Sample Size and Profile

### Sample size by cognitive ability

Normal Controls	60
Preclinical AD	60
MCI	60
Mild Dementia	60
Moderate to Severe	60
<b>Total N</b>	<b>300</b>

### Additional inclusion/exclusion details

Inclusions: PSP, CBD, DLB/PDD

### Racial minorities and other stratification

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	If available
Amyloid PET	If available
Tau PET	If available
CSF	If available
Blood Test	If available
AD Blood Biomarkers	If available
Genetics	If available

## Banked biospecimen

### Blood

Plasma (3 ml)

Serum (3 ml)

### Other fluid

CSF (1 ml)

### Brain tissue

Fixed

Frozen

Parafin

Region (cerebral cortex)

## Statistical support

Statistician has already been consulted - Chad Murchison