ADRC Participant Access Request

Access Request Goal

Goal - Formal requst for ADRC data

Principal Investigator

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Study and Theme Details

Hypothesis

The goal of this grant is to unite two innovative technologic advances to create a 3-dimensional (3D) reconstruction of pathology and transcriptional alterations in the human amygdala to gain early insight into the hypothesis that tau pathology in amygdala subregions in AD will be associated with volume loss and loss of specific neuronal populations.

Specific Aims

Aim 1: Determine the relationship between volume loss and tau pathology in the amygdala in AD.
Aim 2: Quantify transcriptional changes associated with tau pathology in the amygdala.

This study is not related to Deep South disparities

Funding and IRB Details

Funding source - Already funded

Entity - Extramural (non-NIH) entity

Details - Alzheimer’s Association, AARG-23-1144317

Subject Sample Size and Profile

Sample size by cognitive ability

Mild Dementia	1-2 (total)
Moderate to Severe	1-2 (total)

Additional inclusion/exclusion details

1-2 total cases of AD pathology with dementia and no TDP-43 pathology or alpha-synuclein pathology. Exclusion: large infarcts in the mesial temporal lobe or significant extraction artifact of the mesial temporal lobe. Would require an intact fixed hemibrain - we would dissect the entorhinal cortex, hippocampus, and amygdala en bloc and return unused tissue in coronal sections (transverse sections for any attached brainstem/cerebellum).

Racial minorities and other stratifcation

This study does NOT test hypothesis on racial disparities

Requested Resources

Banked biospecimen

Brain tissue

Frozen

Region (Intact hemibrain as above)

Statistical support

Statistician has already been consulted - Justus Kebschull, Laurant Younes