



ALZHEIMER'S DISEASE-RELATED DEMENTIAS SUMMIT 2019

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ADRD Summit 2019 Report to the National Advisory Neurological Disorders and Stroke Council

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➤ Focus Area 2: Advancing Basic and Clinical Research in MED

- Recommendation #3 – Priority 1. Advance basic and clinical research on common mechanisms of multi-etiology cognitive impairment and dementia (3-7 y).
- Advance Basic Science of Multi-etiology Biology. Define interactions at the molecular and cellular level of the common pathobiologies of later life cognition including β amyloidosis, 3R/4R tauopathy, 4R tauopathy, TDP43, arteriolosclerosis and other cerebrovascular disease processes, and α -synucleinopathy.
- Translational Science. Develop improved fluid and imaging biomarkers of the common pathobiologies of later life cognition - β -amyloidosis, 3R/4R tauopathy 4R tauopathy, TDP-43, arteriolosclerosis and other cerebrovascular disease processes, and α synucleinopathy - especially those that can be used in tandem with one another in order to obtain a full antemortem etiological profile of persons with cognitive impairment in the context of genetic and behavioral factor risk.
- Clinical Science. Promote observations studies in diverse populations that use all available methods to characterize the status of the common pathobiologies of later life cognitive impairment, in both cognitively unimpaired and cognitively impaired individuals, in order to define novel risk factors for each as well as to establish prevalence estimates of each pathobiology as well as their combinations.
- Develop improved nomenclature that adequately represents multi-etiology processes and develop terminology to represent these processes across multiple stakeholders, including research and clinical practice.

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