A Proteomic Network Comparison of Autosomal Dominant and Sporadic Alzheimer's Disease

Erik Johnson, M.D., Ph.D Fall ADC Director's Meeting, NACC Session 10-12-19



• None

Approach for Consensus Proteomic Network of LOAD



Proteomic Data Analysis

Differential Expression

Co-Expression





Oldham 2013

Protein Co-Expression Network Analysis



Consensus Network of LOAD



LOAD Network is Preserved in Different Brain Regions





Effects of Aging on LOAD Network Modules





Causality and Function of LOAD Network Modules





Leveraging Brain Proteomics for Biomarker Discovery









Is EOAD Different Than LOAD?



Summary



Acknowledgments

<u>Mentors</u> Allan Levey Nick Seyfried

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Co-Investigators

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Collaborators

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Experimental Design

	# of Cases (Male)	Average Age (SD)	Mutation
ADAD	57 (43)	52 (10.4)	49 PSEN1 3 PSEN2 5 APP
s-EOAD	60 (32)	58 (3.4)	N/A
Control	60 (44)	51 (6.9)	N/A
Table 1. Cohort Demographics			