









2013 Global NeuroDiscovery Challenge

MIND THE DA

Search for Gender Based Differences In Alzheimer's Disease

Round II: 21CBT INNOVATION AWARD FINALIST

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SCARB1 AS A MEDIATOR OF GENDER SPECIFIC DIFFERENCES IN ALZHEIMER'S DISEASE

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To pursue mechanisms by which gender may modify Alzheimer's Disease (AD) risk, we queried whether gender could impact human brain physiology in a manner that would be consistent with the disease. We analyzed whole-transcriptome cerebral cortex gene expression data in unaffected individuals in function of their gender as well as in AD patients and observed significant similarities between the gene expression signature observed in

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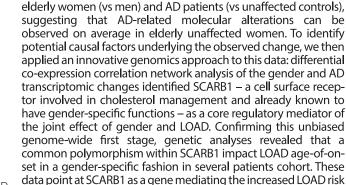


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observed in women. It makes it a therapeutic target of choice and more globally, suggest an involvement of cholesterol in the increased AD incidence observed in women and potential interest in cholesterol-lowering drugs such as statins to reduce AD risks in women. A systematic unbiased approach identified a gene involved in cholesterol and cardiovascular functions that make a very strong candidate in light of our current knowledge of both

AD risk factors and gender-dependent diseases.









