

Sid O'Bryant, PhD
Graduate School of Biomedical Sciences
Institute for Translational Research
Pharmacology & Neuroscience
Institute for Healthy Aging
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Area of Expertise

The O'Bryant laboratory is dedicated to precision medicine in Alzheimer's disease and other neurodegenerative diseases, including Down syndrome, Lewy Body disease, Parkinson's disease, traumatic brain injury, and others. The fully translational lab has a Biomarker Core (Dr. Hall, Director), Clinical Core (Dr. Johnson, Director), Administrative Core (Dr. O'Bryant, Director) and Data Core (Dr. Johnson, Director). The lab also has a Neuroimaging Core (USC, Dr. Toga, Director). Dr. O'Bryant's multiple NIH grants focus on novel strategies for disease detection, screening into trials (therapeutic and prevention), and patient stratification for optimal treatment response. As part of this work, the lab has a strong focus on the impact of ethnicity/diversity on cognitive loss during the aging process and runs the one-of-a-kind Health & Aging Brain among Latino Elders (HABLE) study, which is the most comprehensive study of Mexican-American brain aging to date.

Qualifications

PhD in Clinical Psychology, University at Albany
MA in Clinical Psychology, University at Albany
BS in Psychology, Louisiana State University

Recent Publications

Potential two-step proteomic signature for Parkinson's disease: Pilot analysis in the Harvard Biomarkers Study

O'Bryant, S., Edwards, M., Zhang, F., Johnson, L. A., Hall, J., Kuras, Y. & Scherzer, C. R., 1 Dec 2019, In : Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring. 11, p. 374-382 9 p.

A proteomic signature for dementia with Lewy bodies

O'Bryant, S. E., Ferman, T. J., Zhang, F., Hall, J., Pedraza, O., Wszolek, Z. K., Como, T., Julovich, D., Mattevada, S., Johnson, L. A., Edwards, M. & Graff-Radford, N. R., Dec 2019, In : Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring. 11, p. 270-276 7 p.

Assessing Neuronal and Astrocyte Derived Exosomes From Individuals With Mild Traumatic Brain Injury for Markers of Neurodegeneration and Cytotoxic Activity

Winston, C. N., Romero, H. K., Ellisman, M., Nauss, S., Julovich, D. A., Conger, T., Hall, J. R., Campana, W., O'Bryant, S. E., Nievergelt, C. M., Baker, D. G., Risbrough, V. B. & Rissman, R. A., 2 Oct 2019, In : Frontiers in Neuroscience. 13, 1005.

Brain A β load association and sexual dimorphism of plasma BACE1 concentrations in cognitively normal individuals at risk for AD

the INSIGHT-preAD study group & Alzheimer Precision Medicine Initiative (APMI), Oct 2019, In : Alzheimer's and Dementia. 15, 10, p. 1274-1285 12 p.

Author Correction: Genetic meta-analysis of diagnosed Alzheimer's disease identifies new risk loci and implicates A β , tau, immunity and lipid processing (Nature Genetics, (2019), 51, 3, (414-430), 10.1038/s41588-019-0358-2)

Alzheimer Disease Genetics Consortium (ADGC), The European Alzheimer's Disease Initiative (EADI), Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium (CHARGE) & Genetic and Environmental Risk in AD/Defining Genetic, Polygenic and Environmental Risk for Alzheimer's Disease Consortium (GERAD/PERADES), 1 Sep 2019, In : Nature Genetics. 51, 9, p. 1423-1424 2 p.

Blood Biomarkers for Use in Alzheimer Disease - Moving from "if" to "how?"

O'Bryant, S., 1 Sep 2019, In : JAMA Neurology. 76, 9, p. 1009-1010 2 p.

Blood-based biomarkers for Down syndrome and Alzheimer's disease: A systematic review

Petersen, M. E. & O'Bryant, S., 1 Jul 2019, In : Developmental Neurobiology. 79, 7, p. 699-710 12 p.

Differential default mode network trajectories in asymptomatic individuals at risk for Alzheimer's disease

INSIGHT-preAD Study Group & Alzheimer Precision Medicine Initiative (APMI), 1 Jul 2019, In : Alzheimer's and Dementia. 15, 7, p. 940-950 11 p.

Plasma amyloid β 40/42 ratio predicts cerebral amyloidosis in cognitively normal individuals at risk for Alzheimer's disease

INSIGHT-preAD Study Group & Alzheimer Precision Medicine Initiative (APMI), 1 Jun 2019, In : Alzheimer's and Dementia. 15, 6, p. 764-775 12 p.

The relationship of CRP and cognition in cognitively normal older Mexican Americans: A cross-sectional study of the HABLE cohort

Vintimilla, R., Hall, J., Johnson, L. A. & O'Bryant, S., 1 May 2019, In : Medicine. 98, 19, p. e15605

Sponsored Projects

A Blood-Based Screening Tool for Alzheimer's Disease

O'Bryant, S. & Barber, R.

NIA: National Institute on Aging

15/04/12 → 31/03/14

A Blood Test for Screening into Alzheimer's Prevention Trials

O'Bryant, S., Hall, J. & Johnson, L.

NIA: National Institute on Aging

15/09/17 → 30/06/22

A Blood Test for Screening into Alzheimer's Prevention Trials

O'Bryant, S. & Hall, J.

NIA: National Institute on Aging

15/09/17 → 30/06/22

Amyloid Burden among Mexican Americans

O'Bryant, S., Hall, J., Johnson, L. & Nandy, R.

NIA: National Institute on Aging

30/09/18 → 31/08/19

An Alzheimer's Blood Test for Primary Care

O'Bryant, S., Hall, J., Johnson, L. & Nandy, R.

NIA: National Institute on Aging

1/06/18 → 31/05/21

A Pro-Inflammatory Endophenotype to Predict Treatment Response to NSAID Therapy in AD

O'Bryant, S., Hall, J. & Johnson, L.

NIA: National Institute on Aging

1/09/16 → 31/03/21

Biomarkers of Alzheimer's Disease in Adults with Down Syndrome

O'Bryant, S. & Nandy, R.

Columbia University Medical Center

30/09/15 → 30/04/20

Biomarkers of Alzheimer's Disease in Down Syndrome

O'Bryant, S.

Columbia University Medical Center

30/09/15 → 30/04/20

Blood Biomarkers for Discriminating Amongst Neurodegenerative Diseases

O'Bryant, S., Hall, J. & Nandy, R.
Michael J. Fox Fnd for Parkinson's Res
1/06/19 → 31/05/20

Blood-Brain Barrier Disruption as a Biomarker for Perioperative Neurocognitive Disorders: Cognitive Recovery after Elective Surgery (CREATES) Study

O'Bryant, S. & Hall, J.
1/05/19 → 29/02/24

Community-Based Primary Care for the Elderly

Mason, D., Knebl, J., Johnson, L., Bugnariu, N. & O'Bryant, S.
Centers for Medicare & Medicaid Services
28/05/13 → 30/09/17

Detection of Elder Abuse Through Emergency Care Technicians (DETECT)

O'Bryant, S.
University of Texas HSC at Houston
15/09/18 → 31/05/23

Development and Validation of the Cumulative Environmental Exposure Index for Arsenic: A Novel Environmental Public Health Indicator

O'Bryant, S. & Johnson, L.
Environmental Protection Agency (EPA)
1/03/12 → 28/02/13

Discharge Planning and Care Coordination for Medicaid Eligible Elders

Knebl, J., Bugnariu, N. & O'Bryant, S.
Centers for Medicare & Medicaid Services
1/06/13 → 30/09/17

Efficacy and Safety of T-817MA in Patients with Mild to Moderate Alzheimer's Disease (US202)

O'Bryant, S. & Knebl, J.
University of California, San Diego
13/11/14 → 31/05/18

Genetic and Biomarker Study of Alzheimer's Disease - Recruitment of Mexican Americans into the Texas Alzheimer's Research Consortium (TARC)

O'Bryant, S., Hall, J., Johnson, L. & Large, S.
Alzheimer's Disease Program
1/09/16 → 31/08/17

Genetic and Biomarker Study of Alzheimer's Disease - Recruitment of Mexican Americans into the Texas Alzheimer's Research Consortium (TARC)

O'Bryant, S. & Johnson, L.
Alzheimer's Disease Program
1/03/12 → 31/08/15

Genetic and Biomarker Study of Alzheimer's Disease - Recruitment of Mexican Americans into the Texas Alzheimer's Research Consortium (TARC)

O'Bryant, S. & Johnson, L.
Alzheimer's Disease Program
1/09/15 → 31/08/17

Health Disparities in Alzheimer's Disease among Mexican Americans

O'Bryant, S. & Johnson, L.
NIA: National Institute on Aging
1/09/16 → 31/08/17

Health Disparities in Alzheimer's Disease and Mild Cognitive Impairment among Mexican Americans

O'Bryant, S., Hall, J. & Johnson, L.
NIA: National Institute on Aging
1/09/17 → 31/05/22

Health Disparities in Alzheimer's Disease and Mild Cognitive Impairment among Mexican Americans - Diversity Supplement

O'Bryant, S.
NIA: National Institute on Aging
15/07/18 → 31/05/20

Identification of protective factors for cognitive resilience in adults with Down Syndrome: A multi-omic study

O'Bryant, S. & Hall, J.
Columbia University Medical Center
30/09/18 → 31/08/19

Inflammation as a Pathway for the Depression-cognition Link

Johnson, L. & O'Bryant, S.
Alzheimer's Association
1/10/16 → 30/09/18

Multi-omic Investigation of Exercise Effects in Mild Cognitive Impairment

O'Bryant, S. & Hall, J.
University of California - Irvine
1/07/18 → 28/02/22

Neurodegeneration in Aging Down Syndrome (NiAD): A Longitudinal Study of Cognition and Biomarkers of Alzheimer's Disease

O'Bryant, S. & Hall, J.
University of Pittsburgh
1/07/18 → 30/04/20

Plasma Biomarkers in Lewy Body Disease

O'Bryant, S.
National Alzheimer's Coordinating Center
1/07/16 → 30/06/18

Proinflammatory Endophenotype to predict NSAID treatment response Alzheimer's trials

O'Bryant, S.
NIA: National Institute on Aging
1/09/16 → 31/03/21

Proteomic Profile for Incident Alzheimer's Disease in Down Syndrome

O'Bryant, S.
Columbia University Medical Center
1/11/15 → 31/10/18

Proteomics Analyses of The TARCC Cohort

O'Bryant, S.
Alzheimer's Disease Program
31/07/15 → 31/01/17

Therapeutic Effects of Exercise in Adults with Amnesic Mild Cognitive Impairment

O'Bryant, S. & Johnson, L.
University of California, San Diego
15/03/16 → 28/02/19

Understanding Depression-Related Memory Loss among the Elderly

Johnson, L. & O'Bryant, S.
Pfeiffer Research Foundation
1/06/14 → 31/08/16

UTSW Alzheimer's Disease Center Blood Biomarker Project

O'Bryant, S.
University of Texas Southwestern Med
1/07/12 → 30/06/16