

Sid O'Bryant, PhD  
Graduate School of Biomedical Sciences  
Institute for Translational Research  
Pharmacology & Neuroscience  
Institute for Healthy Aging  
**Email:** Sid.OBryant@unthsc.edu



## 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

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

## Recent Publications

**Exceptionally low likelihood of Alzheimer's dementia in APOE2 homozygotes from a 5,000-person neuropathological study**  
The Alzheimer's Disease Genetics Consortium, 1 Dec 2020, In: Nature Communications. 11, 1, 667.

### **Characterization of the Meal-Stimulated Incretin Response and Relationship With Structural Brain Outcomes in Aging and Alzheimer's Disease**

Morris, J. K., John, C. S., Green, Z. D., Wilkins, H. M., Wang, X., Kamat, A., Swerdlow, R. S., Vidoni, E. D., Petersen, M. E., O'Bryant, S. E., Honea, R. A. & Burns, J. M., 30 Nov 2020, In: Frontiers in Neuroscience. 14, 608862.

### **Human plasma biomarker responses to inhalational general anaesthesia without surgery**

Deiner, S., Baxter, M. G., Mincer, J. S., Sano, M., Hall, J., Mohammed, I., O'Bryant, S., Zetterberg, H., Blennow, K. & Eckenhoff, R., Sep 2020, In: British journal of anaesthesia. 125, 3, p. 282-290 9 p.

### **ApoE genotype-dependent response to antioxidant and exercise interventions on brain function**

Chaudhari, K., Wong, J. M., Vann, P. H., Como, T., O'bryant, S. E. & Sumien, N., Jun 2020, In: Antioxidants. 9, 6, p. 1-16 16 p., 553.

### **Factores de riesgo cardiovascular en Estados Unidos y México: Comparación de los estudios habile y enasem**

Vintimilla, R., Reyes, M., Johnson, L., Hall, J. & O'bryant, S., 1 Jan 2020, In: Gaceta medica de Mexico. 156, 1, p. 16-20 5 p.

### **The impact of comorbid depression-diabetes on proteomic outcomes among community-dwelling Mexican Americans with mild cognitive impairment**

Johnson, L. A., Zhang, F., Large, S., Hall, J. & O'bryant, S. E., 1 Jan 2020, In: International Psychogeriatrics. 32, 1, p. 17-23 7 p.

### **Cardiovascular risk factors, cognitive dysfunction, and mild cognitive impairment**

Vintimilla, R., Balasubramanian, K., Hall, J., Johnson, L. & O'Bryant, S., 2020, (Accepted/In press) In: Dementia and Geriatric Cognitive Disorders Extra. p. 154-162 9 p.

**Cardiovascular risk factors in Mexico and the United States: a comparative cross-sectional study between the HABLE and MHAS participants**

Vintimilla, R., Reyes, M., Johnson, L., Hall, J. & O'Bryant, S., 2020, In: Gaceta medica de Mexico. 156, 1, p. 17-21 5 p.

**Cognition and the Predictive Utility of Three Risk Scores in an Ethnically Diverse Sample**

Torres, S., Alexander, A., O'Bryant, S. & Medina, L. D., 2020, In: Journal of Alzheimer's Disease. 75, 3, p. 1049-1059 11 p.

**Combining Select Blood-Based Biomarkers with Neuropsychological Assessment to Detect Mild Cognitive Impairment among Mexican Americans**

Petersen, M., Hall, J., Parsons, T., Johnson, L. & O'Bryant, S., 2020, In: Journal of Alzheimer's Disease. 75, 3, p. 739-750 12 p.

## **Sponsored Projects**

**A Blood-Based Screening Tool for Alzheimer's Disease**

O'Bryant, S. & Barber, R.

NIA: National Institute on Aging

15/04/12 → 31/03/15

**A Blood-Based Screening Tool for Alzheimer's Disease**

O'Bryant, S., O'BRYANT, S. E. & OaposBRYANT, S. E.

15/04/12 → 31/03/15

**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

**A Blood Test for Screening Into Alzheimer's Prevention Trials**

O'Bryant, S., RISSMAN, R., O'BRYANT, S., RISSMAN, R. & RISSMAN, R.

15/09/17 → 30/06/21

**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

**Amyloid Burden among Mexican Americans**

RISSMAN, R., TOGA, A., RISSMAN, R., TOGA, A., Johnson, L., O'Bryant, S. & O'BRYANT, S.

30/09/18 → 30/04/21

**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

**An Alzheimer's Blood Test for Primary Care**

O'Bryant, S., YAFFE, K., O'BRYANT, S., YAFFE, K., O'BRYANT, S. & YAFFE, K.

1/06/18 → 31/05/21

**A Proinflammatory Endophenotype to Predict NSAID Treatment Response Alzheimer's Disease Clinical Trials**

O'Bryant, S., LYKETSOS, C., RISSMAN, R., LYKETSOS, C., RISSMAN, R., O'Bryant, S., O'BRYANT, S. & RISSMAN, R.  
1/09/16 → 31/03/21

**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-Based Biomarker Profiles for a Precision Medicine Approach to Parkinsons Disease**

O'Bryant, S., Hall, J. & Nandy, R.  
Michael J. Fox Fnd for Parkinson's Res  
15/10/19 → 14/10/20

**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 Peroperative Neurocognitive Disorders: Cognitive Recovery after Elective Surgery (CREATES) Study**

O'Bryant, S. & Hall, J.  
Rhode Island Hospital  
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 → 31/12/17

**Confidential**

O'Bryant, S.  
1/08/19 → 31/07/22

**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 → 28/02/14

**Discharge Planning and Care Coordination for Medicaid Eligible Elders**

Knebl, J., Bugnariu, N. & O'Bryant, S.  
Centers for Medicare & Medicaid Services  
1/06/13 → 31/12/17

**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 Among Mexican Americans**

O'Bryant, S., TOGA, A., YAFFE, K., O'BRYANT, S., TOGA, A., YAFFE, K., O'BRYANT, S., TOGA, A. & YAFFE, K.  
1/09/16 → 31/05/21

**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

**Sleep Quality and Mechanistic Links to Alzheimer Disease and Related Disorders among older Mexican Americans and Non-Hispanic Whites**

O'Bryant, S., YAFFE, K., O'BRYANT, S. & YAFFE, K.  
15/09/19 → 30/06/21

**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