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Institute for Translational Research  
Institute for Healthy Aging  
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## Area of Expertise

My area of expertise is in translational aging research. I am the Co-I of Health & Aging Brain among Latino Elders (HABLE) study (R01AG054073) and the Director of the Clinical and Outreach cores for this study. I have spent a great deal of time studying factors related to cognitive loss among Mexican-Americans with a specific emphasis on the link between depression and cognition. I have developed and cross-validated a depressive endophenotype (DepE) of cognitive aging across multiple national and international cohorts. This work has been translated into a proof of concept clinical trial (The DEMO trial). The DEMO trial utilizes a precision medicine approach to identify those individuals more likely to benefit from antidepressant treatment for prevention of memory loss and potentially Alzheimer's disease.

## Qualifications

BSW in Psychology, Louisiana State University  
MSW, Louisiana State University  
PhD in Social Work, University of Texas at Arlington

## Recent Publications

### **Factores de riesgo cardiovascular en Estados Unidos y México: Comparación de los estudios HABLE 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.

### **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.

### **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.

### **Blood-based protein predictors of dementia severity as measured by $\delta$ : Replication across biofluids and cohorts**

Royall, D. R., Bishnoi, R. J., Palmer, R. F., Pavlik, V., Massman, P., Darby, E., Rodriguear, M., Ansari, A. K., DeToledo, J. C., Reddy, H., Wilms, H., Johnson, K., Perez, V., Fairchild, T., Knebl, J., O'Bryant, S. E., Hall, J. R., Johnson, L., Barber, R. C., Mains, D. & 22 others, Alvarez, L., Cullum, M., Rosenberg, R., Williams, B., Quiceno, M., Reisch, J., Hynan, L. S., Huebinger, R., Smith, J., Nguyen, T., Royall, D., Palmer, R., Polk, M., Stevens, A., Ory, M., Paydarfar, D., Bertelson, J., Woon, M., Ayres, G., Aguirre, A., Wilhelmsen, K. C. & Tilson, J. L., Dec 2019, In: Alzheimer's and Dementia: Diagnosis,

Assessment and Disease Monitoring. 11, p. 763-774 12 p.

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

O'Bryant, S. E., Edwards, M., Zhang, F., Johnson, L. A., Hall, J., Kuras, Y. & Scherzer, C. R., Dec 2019, In: Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring. 11, p. 374-382 9 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. & O'Bryant, S., 1 May 2019, In: Medicine. 98, 19, p. e15605

**Vascular depression and cognition in Mexican Americans**

Johnson, L. A., Large, S. E., Izurieta Munoz, H., Hall, J. R. & O'Bryant, S. E., 1 May 2019, In: Dementia and Geriatric Cognitive Disorders. 47, 1-2, p. 68-78 11 p.

## Sponsored Projects

**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

**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

**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

**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

**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

**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

**Inflammation as a Pathway for the Depression-cognition Link**

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

**Structural Neuroimaging Biomarkers of a Depressive Endophenotype of MCI among Mexican Americans**

Johnson, L.  
Intramural Research(UNTHSC)  
1/10/13 → 31/08/15

**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

**The Role of Depression on Cognition in the Elderly (For: Menaka Yadav)**

Johnson, L.  
Intramural Research(UNTHSC)  
15/10/15 → 28/02/17

**Understanding Depression-Related Memory Loss among the Elderly**

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

**Understanding Depression-Related Memory Loss among the Elderly "Proof of Concept"**

Johnson, L.  
J. E. S. Edwards Foundation  
1/09/16 → 31/08/18

**Understanding the Influence of Depression on Diabetes in Mexican Americans**

Johnson, L.  
The Hogg Foundation for Mental Health

1/06/12 → 31/05/13