

Stanford



Edward Wilson

Postdoctoral Research Fellow, Neurology and Neurological Sciences

Bio

HONORS AND AWARDS

- Dean of Medicine's Postdoctoral Fellowship, Stanford University (2018)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, McGill University (2016)
- Master of Science, McGill University , Psychology (2011)
- Bachelor of Science, Dalhousie University , Neuroscience and Biology (2008)

STANFORD ADVISORS

- Katrin Andreasson, Postdoctoral Faculty Sponsor

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Single-cell transcriptomic profiling of immune cells in Alzheimer's disease brain

Alzheimer's disease, Parkinson's disease and multiple sclerosis biomarkers

Alzheimer's disease experimental therapeutics

Publications

PUBLICATIONS

- **Intraneuronal Amyloid Beta Accumulation Disrupts Hippocampal CRTAC1-Dependent Gene Expression and Cognitive Function in a Rat Model of Alzheimer Disease** *CEREBRAL CORTEX*
Wilson, E. N., Abela, A. R., Do Carmo, S., Allard, S., Marks, A. R., Welikovitsh, L. A., Ducatenzeiler, A., Chudasama, Y., Cuello, A. C.
2017; 27 (2): 1501-1511
- **BACE1 inhibition by microdose lithium formulation NP03 rescues memory loss and early stage amyloid neuropathology** *Translational Psychiatry*
Wilson, E. N., Do Carmo, S., Iulita, M., Hall, H., Ducatenzeiler, A., Marks, A. R., Allard, S., Jia, D., Windheim, J., Cuello, A. C.
2017; 7: 1-10
- **PGE(2) signaling via the neuronal EP2 receptor increases injury in a model of cerebral ischemia** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Liu, Q., Liang, X., Wang, Q., Wilson, E. N., Lam, R., Wang, J., Kong, W., Tsai, C., Pan, T., Larkin, P. B., Shamloo, M., Andreasson, K. I.
2019; 116 (20): 10019-24

- **Peripheral TREM1 responses to brain and intestinal immunogens amplify stroke severity** *Nature Immunology*
Liu, Q., Johnson, E., et al
2019

- **Microdose Lithium NP03 Diminishes Pre-Plaque Oxidative Damage and Neuroinflammation in a Rat Model of Alzheimer's-like Amyloidosis** *Current Alzheimer Research*
Wilson, E. N., Do Carmo, S., Iulita, M., Hall, H., Austin, G. L., Jia, D., Malcolm, J. C., Foret, M. K., Marks, A. R., Butterfield, D., Cuello, A.
2018

- **Differential deregulation of NGF and BDNF neurotrophins in a transgenic rat model of Alzheimer's disease** *Neurobiology of Disease*
Iulita, M., Bistué Millón, M., Pentz, R., Aguilar, L., Do Carmo, S., Allard, S., Michalski, B., Wilson, E. N., Ducatenzeiler, A., Bruno, M. A., Fahnestock, M., Cuello, A.
2017: 307–23

- **Longitudinal testing of hippocampal plasticity reveals the onset and maintenance of endogenous human A β -induced synaptic dysfunction in individual freely behaving pre-plaque transgenic rats: rapid reversal by anti-A β agents.** *Acta neuropathologica communications*
Qi, Y., Klyubin, I., Harney, S. C., Hu, N., Cullen, W. K., Grant, M. K., Steffen, J., Wilson, E. N., Do Carmo, S., Remy, S., Fuhrmann, M., Ashe, K. H., Cuello, et al
2014; 2: 175-?