

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

- **TAM-ping down amyloid in Alzheimer's disease.** *Nature immunology*
Wilson, E. N., Andreasson, K. I.
2021
- **Soluble TREM2 is elevated in Parkinson's disease subgroups with increased CSF tau.** *Brain : a journal of neurology*
Wilson, E. N., Swarovski, M. S., Linortner, P. n., Shahid, M. n., Zuckerman, A. J., Wang, Q. n., Channappa, D. n., Minhas, P. S., Mhatre, S. D., Plowey, E. D., Quinn, J. F., Zabetian, C. P., Tian, et al
2020
- **NP03, a Microdose Lithium Formulation, Blunts Early Amyloid Post-Plaque Neuropathology in McGill-R-Thy1-APP Alzheimer-Like Transgenic Rats.** *Journal of Alzheimer's disease : JAD*
Wilson, E. N., Do Carmo, S., Welikovitsh, L. A., Hall, H., Aguilar, L. F., Foret, M. K., Iulita, M. F., Jia, D. T., Marks, A. R., Allard, S., Emmerson, J. T., Ducatenzeiler, A., Cuello, et al

2019

- **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., Welikovich, 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
- **Association of CSF Biomarkers with Hippocampal-dependent Memory in Preclinical Alzheimer Disease.** *Neurology*
Trelle, A. N., Carr, V. A., Wilson, E. N., Swarovski, M. S., Hunt, M. P., Toueg, T. N., Tran, T. T., Channappa, D. n., Corso, N. K., Thieu, M. K., Jayakumar, M. n., Nadiadwala, A. n., Guo, et al
2021
- **TREM1-PET imaging of pro-inflammatory myeloid cells distinguishes active disease from remission in Multiple Sclerosis**
Chaney, A., Wilson, E., Jain, P., Cropper, H., Swarovski, M., Lucot, K., Vogel, H., Andreasson, K., James, M. L.
SOC NUCLEAR MEDICINE INC.2020
- **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
- **Full Reversal of Cognitive Decline in Rat Model of Alzheimer Disease**
Wilson, E. N., Iulita, M., Do Carmo, S., Cuello, A.
CANADIAN PSYCHOLOGICAL ASSOC.2015: 375
- **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-?
- **Neurovascular architecture following monocular deprivation in monkey primary visual cortex**
Wilson, E. N., Duffy, K. R.
CANADIAN PSYCHOLOGICAL ASSOC.2010: 310