Shea J **Andrews**

Postdoctoral Fellow

Icahn School of Medicine at Mount Sinai

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I am genetic epideimologist investigating the role of modifiable risk factors in Alzheimer's disease.

Education and Qualifications

The Australian National University — *Canberra, ACT, AUS*

Ph.D. in Medical Sciences — *2013/2 – 2017/4*

- Dissertation Title: Predicting cognitive decline: Genetic, environmental and lifestyle risk factors
- Committee members: Drs. Simon Easteal (advisor), Devashi Das, Kaarin J Anstey

University of Queensland — *Brisban, QLD, AUS*

Bachelor of Science with Honours Class I in Biochemistry — *2011/7 - 2012/7*

- Dissertation Title: Characterization of peptides encoded by upstream open reading frames

University of Queensland — *Brisban, QLD, AUS*

Bachelor of Science in Genetics / Bachelor of Arts in Journalism and Mass Communication and Political Science — *2007/2 - 2010/12*

Research Experience

Icahn School of Medicine at Mount Sinai — *New York, NY, USA*

Postdoctoral Fellow — *Jan 2018 - Current*

- Mentor: Prof. Alison Goate
- Identifing modifiable risk factors for Alzheimer's disease using polygneic risk scores and Mendelian Randomization
- Investigating the causal assocation of mitochondrial dysfunction with Alzheimer's disease

Australian National University — *Canberra, ACT, AUS*

Postdoctoral Associate — *Aug 2016 - Dec 2017*

- Mentor: Prof. Kaarin J. Anstey
- Comparison of genetic and lifestyle risk factors in cognitive impairment

Australian National University — *Canberra, ACT, AUS*

Graduate Researcher — *Feb 2013 - Aug 2016*

- Mentor: Prof. Simon Easteal
- Investigating the assocation of genetic, environmental and lifestyle risk factors with cogntive decline

University of Queensland — *Brisbane, QLD, AUS*

Honours Researcher — *Jul 2011 - Jun 2012*

- Mentor: Assoc. Prof. Joe Rothnagel
- Characterization of peptides encoded by upstream open reading frames.

University of Queensland — *Brisbane, QLD, AUS*

Undergraduate Researcher — *Jun 2010 - Oct 2010*

- Mentor: Assoc. Prof. Joe Rothnagel
- Bioinformatic identification of conserved open reading frames within the non-coding region of mitochondrial genomes

University of Queensland — *Brisbane, QLD, AUS*

Undergraduate Researcher — *Nov 2009 - Jan 2010*

- Mentor: Assoc. Prof. Ulrike Kappler
- Physiology of sulfite oxidation in Sinorhizobium meliloti

Publications

1. SJ Andrews, JR (2014). Emerging evidence for functional peptides encoded by short open reading frames. *Nat. Rev. Genet.* (15 (3), 193-204).
2. A Watts SJ Andrews, KA (2018). Sex Differences in the Impact of BDNF Genotype on the Longitudinal Relationship between Physical Activity and Cognitive Performance. *Gerontology*.

3. SJ Andrews B Fulton-Howard, AG (2020). Interpretation of risk loci from genome-wide association studies of Alzheimer's disease. *Lancet Neurol.*
4. SJ Andrews E Marcora, AG (2019). Causal associations between potentially modifiable risk factors and the Alzheimer's phenome: A Mendelian randomization study. *bioRxiv* (689752).
5. SJ Andrews, AG (2019). Mendelian randomization indicates that TNF is not causally associated with Alzheimer's disease. *Neurobiol. Aging* (84, 241. e1-241. e3).
6. SJ Andrews A Goate, KA (2019). Association between alcohol consumption and Alzheimer's disease: A Mendelian randomization study. *Alzheimers Dement.*
7. J Pa SJ Andrews, RS (2019). Mitochondria and Alzheimer's: Is PTCD1 the Smoking Gun? *Trends Neurosci.* (42 (11), 759-762).
8. SJ Andrews B Fulton-Howard, AG (2019). Protective Variants in Alzheimer's Disease. *Curr. Genet. Med. Rep.* (7 (1), 1-12).

Grants

Alzheimer's Association Research Fellowship Program: AARF-20-675804 *New York, NY, USA*

Assessing the causal role of mitochondria in Alzheimer's disease *2020 - 2023*

- Role: PI
- Funded Amount: $174,998.00 USD

Australian Postgraduate Award Scholarship *Canberra, ACT, AUS*

Ph.D. Student Scholarship *2013 - 2016*