Stanford

Julia Rachel Plank

Postdoctoral Scholar, Psychiatry

Bio

BIO

I am a postdoctoral researcher in the BRain Imaging, Development, and GEnetics (BRIDGE) Laboratory in the Department of Psychiatry and Behavioral Sciences. Currently my work focuses on the use of magnetic resonance imaging (MRI) for improving understanding of the neuropathophysiology underlying neuropsychiatric disorders with a genetic basis.

My PhD investigated the use of neuroimaging techniques (diffusion MRI, quantitative magnetization transfer, magnetic resonance spectroscopic imaging, electroencephalography) for detection of neuroinflammation in human participants.

My research interests are centered on the clinical applications of MRI for elucidation of pathology and improving diagnosis and treatment.

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Auckland (2023)
- Bachelor of Arts, University of Auckland (2017)
- BA (Hons), University of Auckland , Psychology (2018)

STANFORD ADVISORS

- Tamar Green, Postdoctoral Faculty Sponsor

LINKS

- BRIDGE: https://med.stanford.edu/bridge-lab.html

Publications

PUBLICATIONS

- **Detection of Neuroinflammation Induced by Typhoid Vaccine Using Quantitative Magnetization Transfer MR: A Randomized Crossover Study.** *Journal of magnetic resonance imaging : JMRI*
  Plank, J. R., Morgan, C. A., Smith, A. K., Sundram, F., Hoeh, N. R., Muthukumaraswamy, S., Lin, J. C.
  2023

- **A randomized, double-blind, placebo-controlled, hybrid parallel-arm study of low-dose naltrexone as an adjunctive anti-inflammatory treatment for major depressive disorder.** *Trials*
  Plank, J. R., Glover, S. C., Moloney, B. D., Hoeh, N. R., Sundram, F., Sumner, R. L., Muthukumaraswamy, S., Lin, J. C.
  2022; 23 (1): 822

- **Brain temperature as an indicator of neuroinflammation induced by typhoid vaccine: Assessment using whole-brain magnetic resonance spectroscopy in a randomised crossover study.** *NeuroImage. Clinical*

  Plank, J. R., Morgan, C., Sundram, F., Plank, L. D., Hoeh, N., Ahn, S., Muthukumaraswamy, S., Lin, J. C.

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