

UKU VAINIK

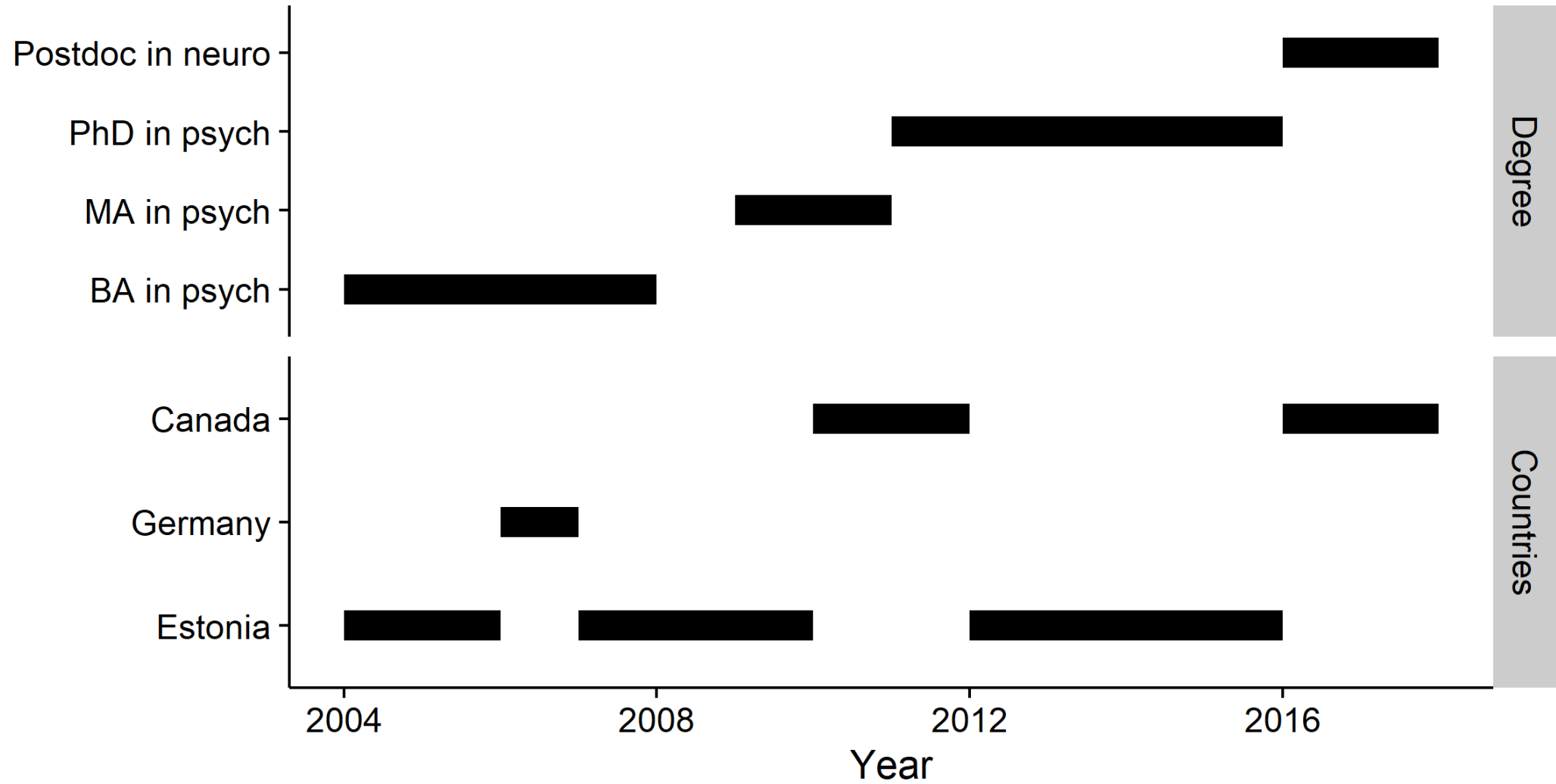
Obesity & eating behaviours

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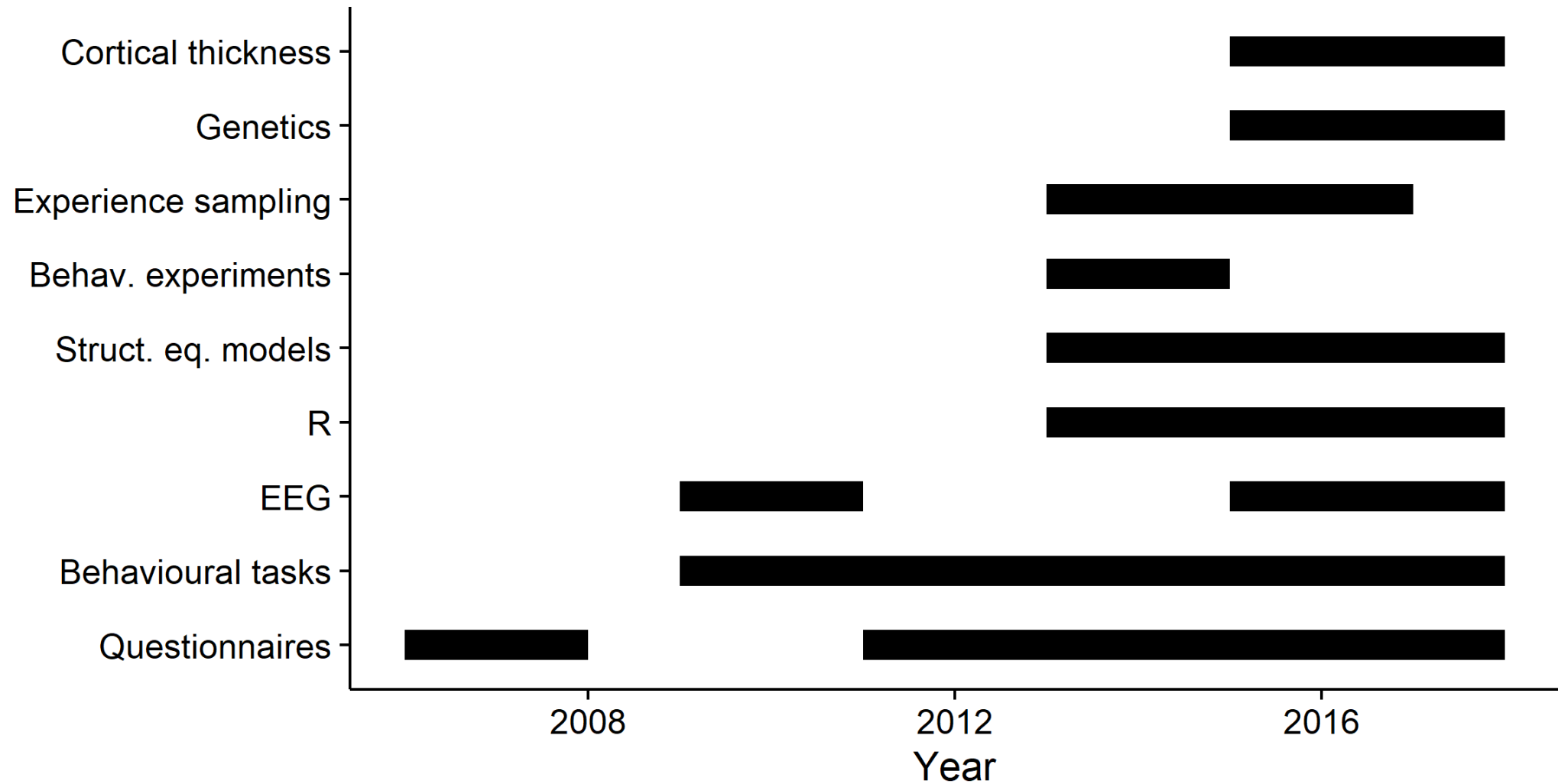
Personality

Brainhack school 2018
Montreal Neurological Institute
University of Tartu
@ukuv

Education

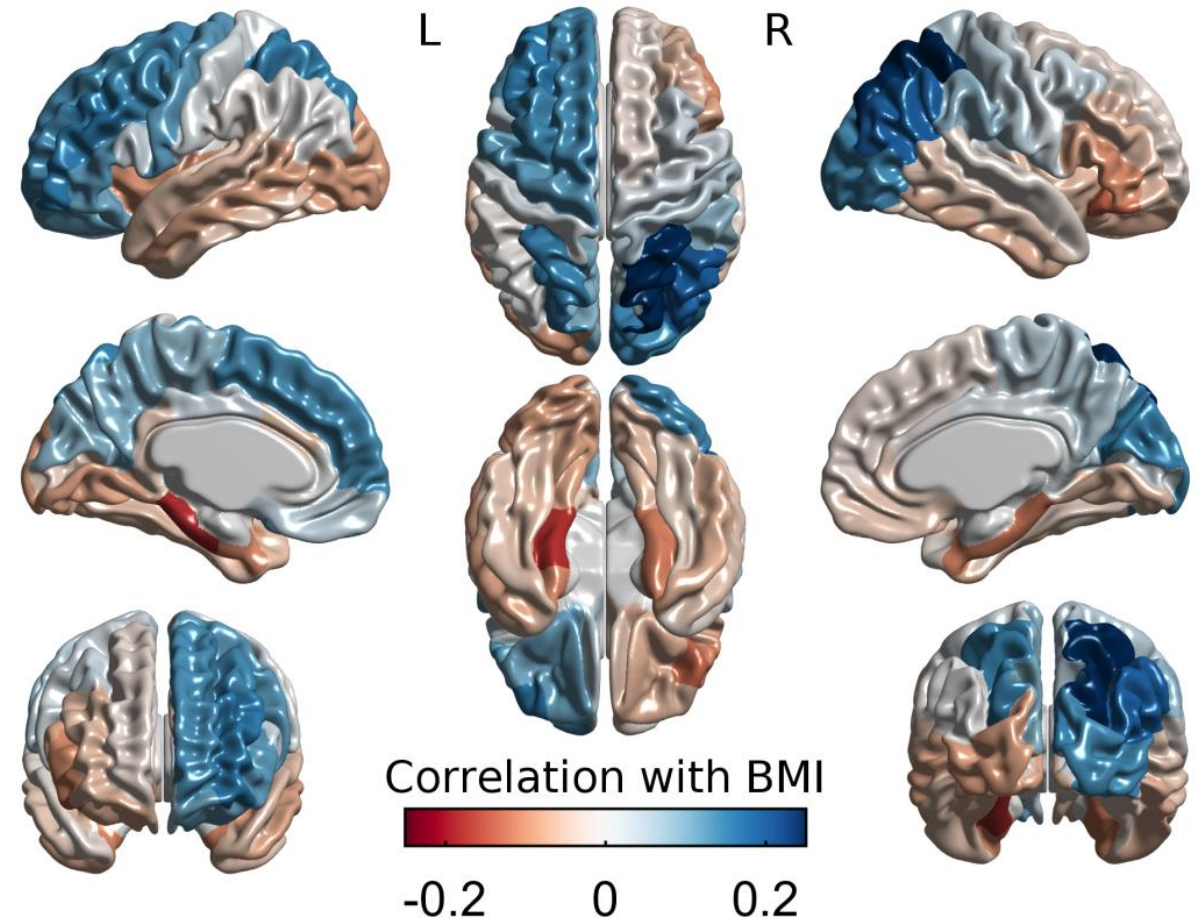


Methods



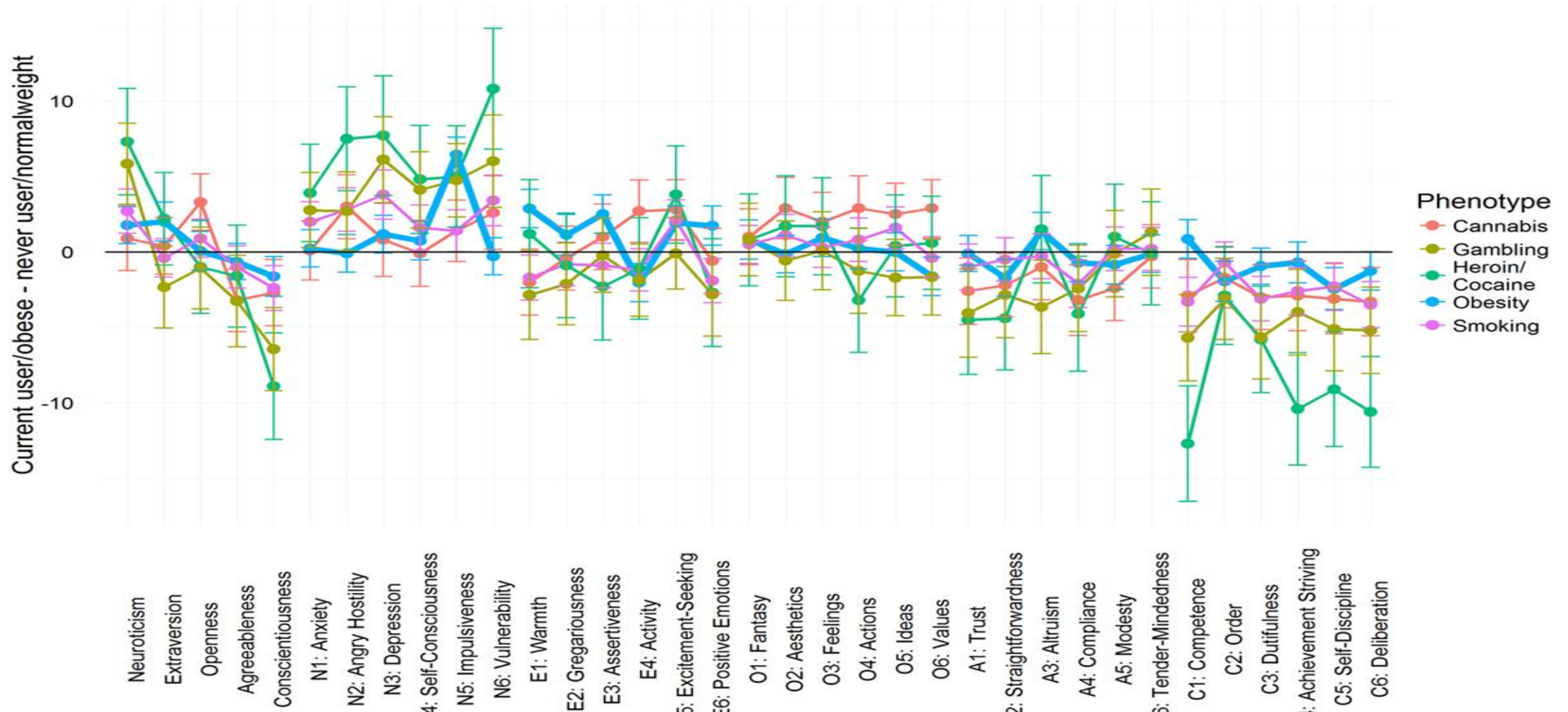
1. Obesity-brain correlates & multiple modalities

- 10 000 participants in UK Biobank
- three structural imaging modalities
- diffusion MRI
- task fMRI
- resting-state fMRI



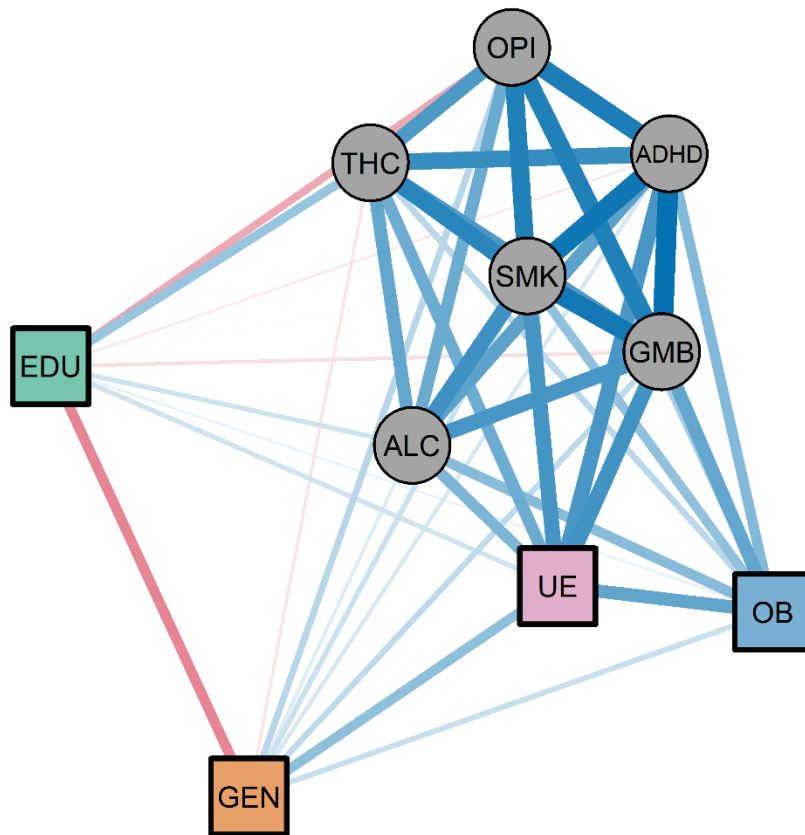
- Got my feet wet with human connectome
- Bioarxiv: <https://doi.org/10.1101/204917>

2. Quantifying overlap between obesity and addictions

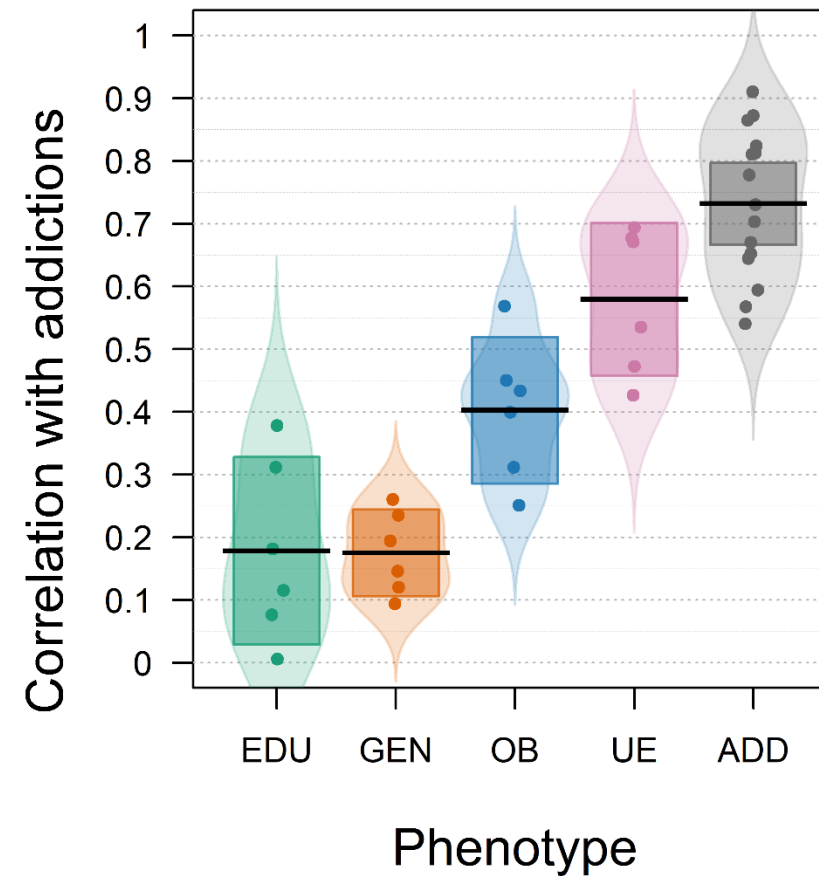


Behavioural correlations

A

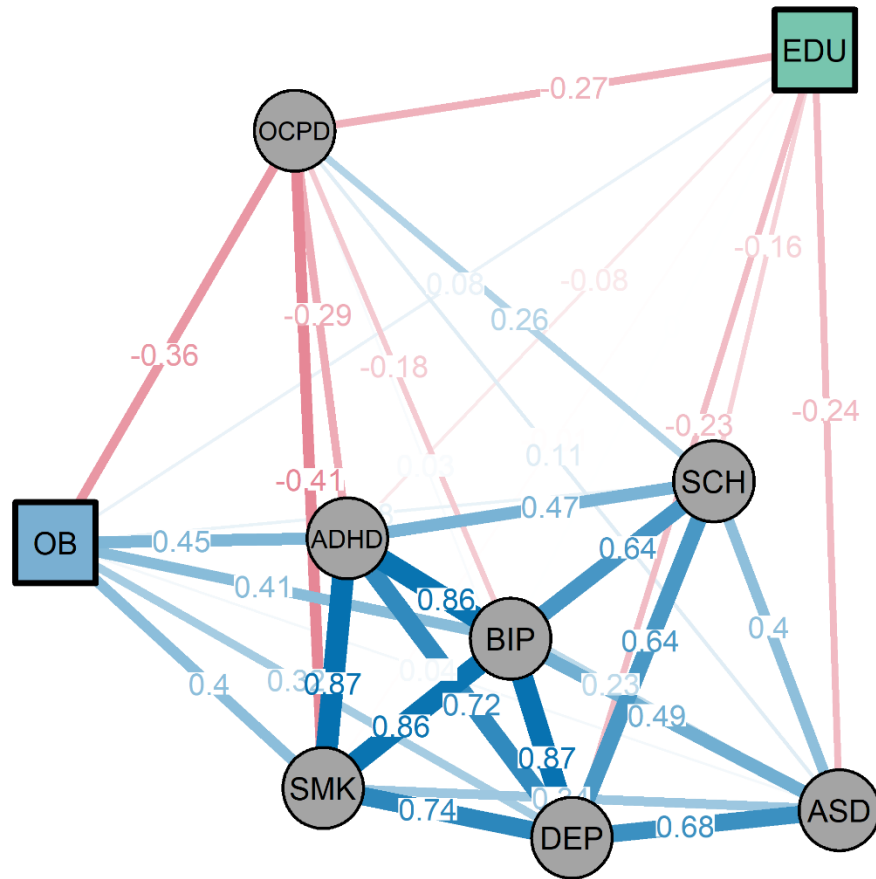


B

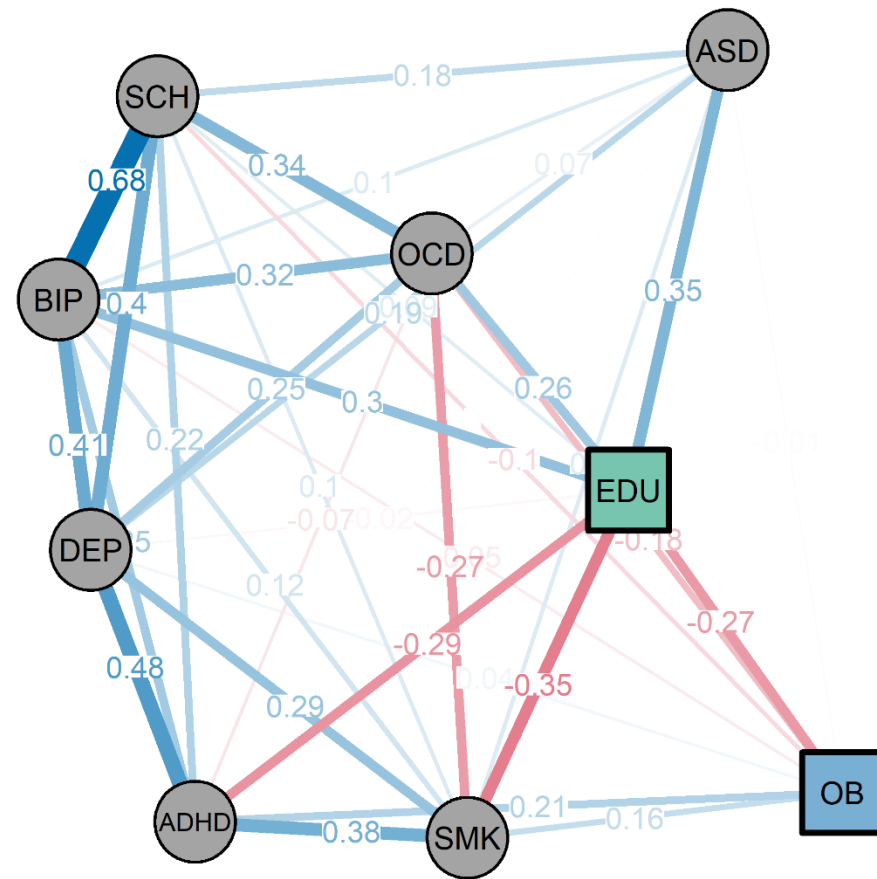


Behaviours & genetic correlations ($r=0.53$)

A



B



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Mert R. Sabuncu, Tian Ge, Avram J. Holmes, Jordan W. Smoller, Randy L. Buckner, Bruce Fischl, and the Alzheimer's Disease Neuroimaging Initiative

PNAS September 27, 2016. 113 (39) E5749-E5756; published ahead of print September 9, 2016.

<https://doi.org/10.1073/pnas.1604378113>

3. How do individual in neuranatomy / personality differences emerge?

Increased variability in behaviour across ages 8-12

