



FAIR NEUROIMAGING LAB



RESEARCH PARTICIPANTS NEEDED



BRAIN DEVELOPMENT STUDY

Thank you for your continued support and participation in our study! The Brain Development research study at OHSU is still looking for participants. Interested parents are welcome to call in for a short screening over the phone. The study includes up to four visits with an MRI scan if eligible.

Eligibility requirements include:

- Child is 7-15 years old in good health
- On the Autism Spectrum (Autism, Asperger's, PDD-NOS, High-Functioning Autism)
- Has at least one parent/legal guardian able to participate
- If taking a stimulant medication for ADHD, must be willing to go off that medication for some visits
- No permanent metal in or attached to the body
- Speaks English as a first language

Call our study today at: 503-494-5635

FOLLOW-UP STUDY VISITS

BRAIN DEVELOPMENT STUDY

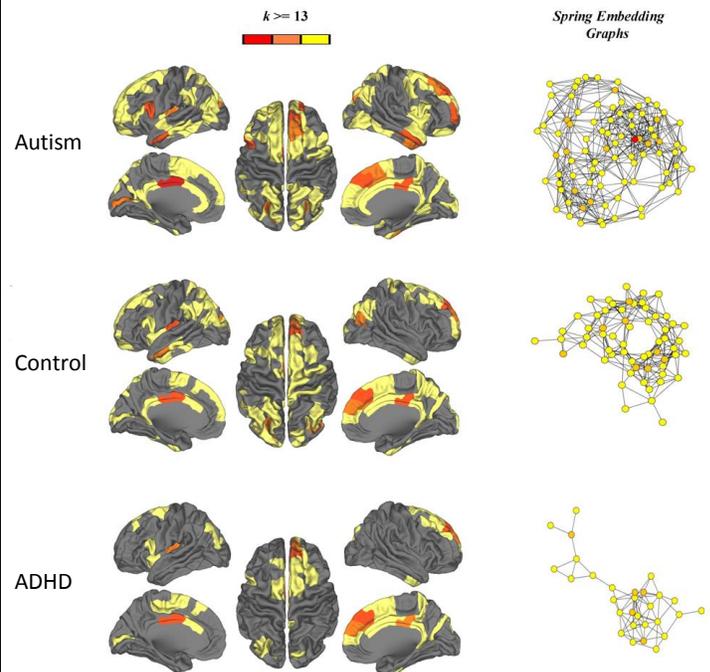
Dr. Fair has received exciting new funding from the National Institutes of Health. Families who have already participated in the Brain Development Study may be contacted in the fall of 2014 to participate in follow-up visits approximately one year after previous participation. These visits may involve the following:

- Short screening over the phone to determine eligibility
- Two 3 hour visits at OHSU
- Parents and children would repeat previous study tasks including the MRI scan for children
- Parents would receive up to \$70 and children \$50 for their time.

STUDY FINDINGS

RESULTS FROM NEUROIMAGING RESEARCH:

Novel initial findings from our study have identified distinct patterns of brain connectivity in Autism vs. ADHD. Results from both structural and functional analyses converged on a striking pattern: the Autism group was characterized by over-connectivity in certain brain networks, while the ADHD group was characterized by under-connectivity in these networks. The research identified distinct patterns of connectivity in Autism vs. ADHD, suggesting that there may be distinct neural mechanisms underlying the expression of each syndrome. How these distinct patterns relate to specific symptom domains may have important implications for our classification and treatment of neurodevelopmental disorders. Stay tuned for updates!



Spatial topography and spring embedded graphs of structural rich club in ASD, control and ADHD (top-bottom). Spring embedded graphs (on right) are shown for each group where regions are depicted as circles and links between them are the solid lines between them.

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Funded by the National Institutes of Health (NIH) • Principal Investigator Damien Fair, PA-C, Ph.D.

Brains-N-Games!

Did you know that specific parts of your brain are responsible for specific actions? Take a look at the different areas of the brain and their responsibilities, can you find the area that controls your **speech**? What about the area that **receives images** (visual area)?

