

**Principal Investigator:** Faraone, Stephen  
**Institution:** SUNY Upstate Medical University  
**Project Title:** International Multi-Center ADHD Genetics Project

1. **Goal:** To complete a 600,000 tag SNP genome-wide association scan of 958 parent-child trios from the International Multisite ADHD Genetics (IMAGE) project, in order to assess the association of SNP markers with ADHD, analyze quantitative ADHD phenotypes, complete copy number analyses, assess parent of origin effects and season of birth effects, and test for epistasis among apparently uncorrelated genes.
2. **Design:** Parent-offspring trios.
3. **Race/ethnicity of participants:** Predominantly European genetic origin.
4. **Countries of origin of majority of study participants:** the UK, the Republic of Ireland, Germany, Belgium, Spain, Switzerland, the Netherlands, and Israel.
5. **Sample size:** 958 child subjects and 1916 parents of these subjects, for a total 2874 subjects derived from 958 trios.
6. **Primary disease phenotype and criteria for diagnosis:** ADHD.
7. **Secondary phenotypes:** Quantitative measures of conduct disorder, sleep problems, autism spectrum symptoms, and emotional lability.
8. **Matching variables:** Not applicable.
9. **Non-genetic risk factors, covariates, or confounders:** Non-genetic risk factors include season-of-birth effects. Confounders include gene-gene interactions, parent-of-origin effects, and copy number effects.
10. **Primary Institution or Study Site:** SUNY Upstate Medical University, Syracuse, NY.
11. **Lead Principal Investigator and contact information:**

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**12. Collaborating institutions or study sites:**

Trinity College Dublin, Ireland	University of Gottingen, Germany
Ghent University, Ghent, Belgium	Universitaetsklinikum Essen, Germany
Institute of Psychiatry, King's College London, UK	University of Valencia, Valencia, Spain
Finanzabteilung Universität Zürich, Switzerland	Herzog Hospital, Israel
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**13. Collaborating Principal Investigators or Co-Investigators and contact information:**

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**14. Study website URL:** <http://www.upstate.edu/genetics/>

**15. Key study publications:**

Brookes K, Xu X, et al. The analysis of 51 genes in DSM-IV combined type attention deficit hyperactivity disorder: association signals in DRD4, DAT1 and 16 other genes. *Mol Psychiatry* 2006 Oct;11(10):934-53. Epub 2006 Aug 8.

Kuntsi J, Neale BM, Chen W, Faraone SV, Asherson P. The IMAGE project: methodological issues for the molecular genetic analysis of ADHD. *Behav Brain Funct* 2006 Aug 3;2:27.

**16. Data Use Limitations:**

Limited to genetic studies of the pathophysiology or etiology of ADHD or its complications.