

BIOGRAPHICAL SKETCH

NAME: Stephan Ripke		POSITION TITLE Research Scientist, Broad Institute, Boston, MA, USA Postdoc, Charite, Berlin, Germany	
eRA COMMONS USER NAME (credential, e.g., agency login) SRIPKE			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
University of Hamburg, Germany University of Utrecht, Netherlands	M.D. Ph.D.	2002 2014	Medicine Human Genetics

A. Personal Statement

Since the early days of my medical training I have an interest and pursue computational methods in genetic research. Over the years I developed the relevant expertise and experience to lead the proposed research project. The rare combination of strong computational and statistical background with medical / clinical training allows me to execute all necessary steps from receiving raw genotypic data, via all necessary computational steps (QC, imputation, meta-analysis, PCA, etc) up to drawing medical/clinical conclusions from the results. Moreover during the recent years, leading most statistical analyses of the Psychiatric Genomics Consortium – the biggest collaborative experiment in psychiatric genetics - I developed a strong sense for the requirements of the near future to continue our overwhelming success. It is my conviction that collecting new psychiatric individuals and healthy, matched controls with the possibility to recontact is one of the most valuable contributions to further progress in psychiatric research.

While keeping my central position at the Psychiatric Genomics Consortium I recently moved to Berlin, a major capital of the world without a sizable psychiatric dataset collection.

B. Positions and HonorsPositions and Employment

- Krankenhaus KEH, Berlin, Germany: Residency, Internal Medicine 2002-2005
- Max-Planck-Institute, Munich, Germany: Postdoctoral Fellow Statistical Genetics, 2005-2007
- Max-Planck-Institute, Munich, Germany: Residency, Neurology 2007-2008
- Stanley Center, Broad Institute and ATGU, MGH, Boston, USA: Research Scientist since 2008
- Department of Psychiatry, Charite, Berlin, Germany: Postdoc since 2014

Other Experience and Professional Memberships

- Core member of the Psychiatric Genomics Consortium
- Member of the American Society of Human Genetics
- Peer reviewer for: Nature, Nature Genetics, Nature Neuroscience, American Journal of Human Genetics, European Journal of Human Genetics, Human Heredity, Translational Psychiatry

Honors

- Dr. med. / M.D., Magna Cum Laude, University of Hamburg, Germany 2001
- Travel Award, ASHG, Montreal 2011
- Travel Award, WCPG, Hamburg 2012
- Oral Presentation Award, WCPG, Hamburg 2012
- Theodor Reich Young Investigator Award of the **International Society of Psychiatric Genetics.** 2013
 - <http://2013.ispg.net/wp-content/uploads/2013/09/WCPGProgramBook2013.pdf> (page 15)
- The Sidney R. Baer, Jr., Prize of the **Brain & Behavior Research Foundation** 2014
 - <https://bbrfoundation.org/2014-outstanding-achievement-prizewinner>
- Ph. D., Cum Laude, Utrecht University, Netherlands 2014

C. Selected Peer-reviewed Publications and Patent Citations (Selected from 99 peer-reviewed publications)

In the psychiatric field (* indicates joint first authors)

1. **Ripke S**, Schizophrenia Working Group of the Psychiatric Genomics Consortium, et al., "Biological insights from 108 schizophrenia-associated genetic loci." (2014). Nature **511**(7510):421-7.
2. Ruderfer DM*, Fanous AH*, **Ripke S***, et al., "Polygenic dissection of diagnosis and clinical dimensions of bipolar disorder and schizophrenia." (2014). Mol Psychiatry **19**(9):1017-24.
3. **Ripke S***, O Dushlaine C*, et al., "Genome-wide association analysis identifies 13 new risk loci for schizophrenia." (2013). Nat Genet **45**(10):1150-9.
4. Lee SH, **Ripke S**, Cross-Disorder Group of the Psychiatric Genomics Consortium, et al., "Genetic relationship between five psychiatric disorders estimated from genome-wide SNPs." (2013). Nat Genet **45**(9):984-94.
5. Smoller JW*, **Ripke S***, Cross-Disorder Group of the Psychiatric Genomics Consortium, et al., "Identification of risk loci with shared effects on five major psychiatric disorders: a genome-wide analysis." (2013). Lancet **381**(9875):1371-9.
6. **Ripke S***, Wray NR*, Major Depressive Disorder Working Group of the Psychiatric GWAS Consortium, et al., "A mega-analysis of genome-wide association studies for major depressive disorder." (2013). Mol Psychiatry **18**(4):497-511.
7. **Ripke S**, Schizophrenia Psychiatric Genome-Wide Association Study (GWAS) Consortium, et al., "Genome-wide association study identifies five new schizophrenia loci." (2011). Nat Genet **43**(10):969-76.
8. Sklar P, **Ripke S**, Psychiatric GWAS Consortium Bipolar Disorder Working Group, et al., "Large-scale genome-wide association analysis of bipolar disorder identifies a new susceptibility locus near ODZ4." (2011). Nat Genet **43**(10):977-83.

outside the psychiatric field (* indicates joint first authors)

1. Locke AE, Kahali B, Berndt SI, [...], **Ripke S**, et al., "Genetic studies of body mass index yield new insights for obesity biology." (2015). Nature **518**(7538):197-206.
2. Bulik-Sullivan BK, Loh PR, Finucane HK, **Ripke S**, et al., "LD Score regression distinguishes confounding from polygenicity in genome-wide association studies." (2015). Nat Genet.
3. Betz RC*, Petukhova L*, **Ripke S***, et al., "Genome-wide meta-analysis in alopecia areata resolves HLA associations and reveals two new susceptibility loci." (2015). Nat Commun.
4. Goris A*, van Setten J*, Diekstra F*, **Ripke S***, et al., "No evidence for shared genetic basis of common variants in multiple sclerosis and amyotrophic lateral sclerosis." (2014). Hum Mol Genet **23**(7):1916-22.
5. Jostins L*, **Ripke S***, et al., "Host-microbe interactions have shaped the genetic architecture of inflammatory bowel disease." (2012). Nature **491**(7422):119-24.
6. Pereyra F, Jia X, McLaren PJ, Telenti A, de Bakker PI, Walker BD, **Ripke S**, International HIV Controllers Study, et al., "The major genetic determinants of HIV-1 control affect HLA class I peptide presentation." (2010). Science **330**(6010):1551-7.
7. Aulchenko YS, **Ripke S**, Isaacs A, van Duijn CM, "GenABEL: an R library for genome-wide association analysis." (2007). Bioinformatics.

Full list of published work on pubmed:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1VQTc6r4jpmAw/bibliography/43370366/public/?sort=date&direction=ascending>

D. Research Support

5U01MH094432-02 (Daly, PI)

05/10/12 -03/31/16

NIH/ NIHM

2/3 Psychiatric GWAS Consortium: Genomic Followup Next Gen Sequencing and Genotyping

The aims of this proposal are to build on the already successful Psychiatric GWAS consortium's efforts aggregating genetic data for psychiatric illness. As additional work in the community is being conducted that expands the GWAS data and is beginning to generate sequencing data, further work is necessary to ensure that maximal value is extracted from these combined efforts.