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Current Position: Research Fellow

Positions

Since 2011 Research Fellow, Department of Genetic Epidemiology in Psychiatry, Central Institute of Mental Health Mannheim, University of Heidelberg
2008 – 2011 Guest Scientist, Department of Genetic Epidemiology in Psychiatry, Central Institute of Mental Health Mannheim, University of Heidelberg
2008 – 2011 Scholarship in International Research Training Group (IRTG): "Psychoneuroendocrinology of Stress: from molecules and genes to affect and cognition", German Research Foundation (DFG; GRK 1389), University Trier and Leiden
2011 – 2012 Scholarship in Graduate Program of Collaborative Research Center 636 "Learning, memory and brain plasticity: Implications for psychopathology", German Research Foundation (DFG; SFB 636-Z4)

Education

2017 PhD in Psychobiology (*summa cum laude*), University Trier, Germany
2008 Diploma in Psychology (master's equivalent), University Trier, Germany

Research fields and main work areas

- Neuronal and Endocrine stress regulation (ScanStress Paradigm; POSEIDON project)
- Phantom pain and residual limb pain after amputation (Phantomgene Project)
- Influence of genetic and environmental factors on psychiatric disorders and related traits
- Genome-wide data quality control and analysis

Activities in the scientific community, honors, awards

- Travel grants
 - 12th World Congress of Biological Psychiatry in Athens, 2015, Glaxo Smith Kline Foundation
 - 47th Annual Conference of the International Society of Psychoneuroendocrinology (ISPNE) in Zürich, 2017, Glaxo Smith Kline Foundation
 - 25th World Congress of Psychiatric Genetics (WCPG) in Orlando, 2017, German Academic Exchange Service (DAAD)
 - 2nd PGC Pharma industry meeting "Pathways to Drugs" by the Psychiatric Genomics Consortium (PGC), Lundbeck and iPSYCH in Copenhagen, 2018, young scientists travel award

- 26th World Congress of Psychiatric Genetics (WCPG) in Glasgow, 2018, ECIP Travel Award, International Society of Psychiatric Genetics (ISPG)
- Reviewer for
 - Biological Psychology
 - Frontiers in Behavioral Neuroscience
 - International Journal of Psychophysiology
 - Molecular Psychiatry
 - Neuropsychopharmacology
 - Psychiatry Research
 - Psychoneuroendocrinology
 - Sage Open
 - Stress
 - The World Journal of Biological Psychiatry
- Review editor for
 - Behavioral and Psychiatric Genetics, Frontiers in Genetics and Psychiatry

Publications

- Akdeniz, C., Schafer, A., **Streit, F.**, Haller, L., Wust, S., Kirsch, P., . . . Meyer-Lindenberg, A. (2017). Sex-Dependent Association of Perigenual Anterior Cingulate Cortex Volume and Migration Background, an Environmental Risk Factor for Schizophrenia. *Schizophr Bull*, *43*(4), 925-934. doi:10.1093/schbul/sbw138
- Akdeniz, C., Tost, H., **Streit, F.**, Haddad, L., Wust, S., Schafer, A., . . . Meyer-Lindenberg, A. (2014). Neuroimaging evidence for a role of neural social stress processing in ethnic minority-associated environmental risk. *JAMA Psychiatry*, *71*(6), 672-680. doi:10.1001/jamapsychiatry.2014.35
- Anttila, V., Bulik-Sullivan, B., Finucane, H. K., Walters, R. K., Bras, J., Duncan, L., . . . **Streit, F.**, . . . Murray, R. (2018). Analysis of shared heritability in common disorders of the brain. *Science*, *360*(6395). doi:10.1126/science.aap8757
- Bigdeli, T. B., Ripke, S., Peterson, R. E., Trzaskowski, M., Bacanu, S. A., Abdellaoui, A., . . . **Streit, F.**, . . . Kendler, K. S. (2017). Genetic effects influencing risk for major depressive disorder in China and Europe. *Transl Psychiatry*, *7*(3), e1074. doi:10.1038/tp.2016.292
- Binz, T. M., Rietschel, L., **Streit, F.**, Hofmann, M., Gehrke, J., Herdener, M., . . . Baumgartner, M. R. (2018). Endogenous cortisol in keratinized matrices: Systematic determination of baseline cortisol levels in hair and the influence of sex, age and hair color. *Forensic Sci Int*, *284*, 33-38. doi:10.1016/j.forsciint.2017.12.032
- Chang, H., Hoshina, N., Zhang, C., Ma, Y., Cao, H., Wang, Y., . . . **Streit, F.**, . . . Li, M. (2018). The protocadherin 17 gene affects cognition, personality, amygdala structure and function, synapse development and risk of major mood disorders. *Mol Psychiatry*, *23*(2), 400-412. doi:10.1038/mp.2016.231
- Chang, H., Li, L., Peng, T., Grigoriu-Serbanescu, M., Bergen, S. E., Landen, M., . . . **Streit, F.**, . . . Li, M. (2017). Identification of a Bipolar Disorder Vulnerable Gene CHDH at 3p21.1. *Mol Neurobiol*, *54*(7), 5166-5176. doi:10.1007/s12035-016-0041-x
- Colodro-Conde, L., Couvy-Duchesne, B., Whitfield, J. B., **Streit, F.**, Gordon, S., Kemper, K. E., . . . Martin, N. G. (2018). Association Between Population Density and Genetic Risk for Schizophrenia. *JAMA Psychiatry*. doi:10.1001/jamapsychiatry.2018.1581
- Dahm, A. S., Schmierer, P., Veer, I. M., **Streit, F.**, Gorgen, A., Kruschwitz, J., . . . Erk, S. (2017). The burden of conscientiousness? Examining brain activation and cortisol response during social evaluative stress. *Psychoneuroendocrinology*, *78*, 48-56. doi:10.1016/j.psyneuen.2017.01.019
- Degenhardt, F., Priebe, L., Meier, S., Lennertz, L., **Streit, F.**, Witt, S. H., . . . Cichon, S. (2013). Duplications in RB1CC1 are associated with schizophrenia; identification in large European sample sets. *Transl Psychiatry*, *3*, e326. doi:10.1038/tp.2013.101
- Ferreira de Sa, D. S., Schulz, A., **Streit, F. E.**, Turner, J. D., Oitzl, M. S., Blumenthal, T. D., & Schachinger, H. (2014). Cortisol, but not intranasal insulin, affects the central processing of visual food cues. *Psychoneuroendocrinology*, *50*, 311-320. doi:10.1016/j.psyneuen.2014.09.006

- Foo, J. C. *, **Streit, F.***, Treutlein, J., Ripke, S., Witt, S. H., Strohmaier, J., . . . Frank, J. (2018). Shared genetic etiology between alcohol dependence and major depressive disorder. *Psychiatr Genet*, 28(4), 66-70. doi:10.1097/ypg.0000000000000201
- Forstner, A. J., Hecker, J., Hofmann, A., Maaser, A., Reinbold, C. S., Muhleisen, T. W., . . . **Streit, F.**, . . . Nothen, M. M. (2017). Identification of shared risk loci and pathways for bipolar disorder and schizophrenia. *PLoS One*, 12(2), e0171595. doi:10.1371/journal.pone.0171595
- Guzman-Parra, J., Rivas, F., Strohmaier, J., Forstner, A., **Streit, F.**, Auburger, G., . . . Mayoral, F. (2017). The Andalusian Bipolar Family (ABiF) Study: Protocol and sample description. *Rev Psiquiatr Salud Ment*. doi:10.1016/j.rpsm.2017.03.004
- Haddad, L., Schafer, A., **Streit, F.**, Lederbogen, F., Grimm, O., Wust, S., . . . Meyer-Lindenberg, A. (2015). Brain structure correlates of urban upbringing, an environmental risk factor for schizophrenia. *Schizophr Bull*, 41(1), 115-122. doi:10.1093/schbul/sbu072
- Hou, L., Bergen, S. E., Akula, N., Song, J., Hultman, C. M., Landen, M., . . . **Streit, F.**, . . . McMahon, F. J. (2016). Genome-wide association study of 40,000 individuals identifies two novel loci associated with bipolar disorder. *Hum Mol Genet*, 25(15), 3383-3394. doi:10.1093/hmg/ddw181
- Kranz, T. M., Ekawardhani, S., Lin, M. K., Witzmann, S. R., **Streit, F.**, Schuelter, U., . . . Meyer, J. (2012). The chromosome 15q14 locus for bipolar disorder and schizophrenia: is C15orf53 a major candidate gene? *J Psychiatr Res*, 46(11), 1414-1420. doi:10.1016/j.jpsychires.2012.08.008
- Kumsta, R., Moser, D., **Streit, F.**, Koper, J. W., Meyer, J., & Wust, S. (2009). Characterization of a glucocorticoid receptor gene (GR, NR3C1) promoter polymorphism reveals functionality and extends a haplotype with putative clinical relevance. *Am J Med Genet B Neuropsychiatr Genet*, 150b(4), 476-482. doi:10.1002/ajmg.b.30837
- Lang, M., Lemenager, T., **Streit, F.**, Fauth-Buhler, M., Frank, J., Juraeva, D., . . . Mann, K. F. (2016). Genome-wide association study of pathological gambling. *Eur Psychiatry*, 36, 38-46. doi:10.1016/j.eurpsy.2016.04.001
- Lederbogen, F., Kirsch, P., Haddad, L., **Streit, F.**, Tost, H., Schuch, P., . . . Meyer-Lindenberg, A. (2011). City living and urban upbringing affect neural social stress processing in humans. *Nature*, 474(7352), 498-501. doi:10.1038/nature10190
- Martin, J. *, **Streit, F.***, Treutlein, J., Lang, M., Frank, J., Forstner, A. J., . . . Strohmaier, J. (2017). Expert and self-assessment of lifetime symptoms and diagnosis of major depressive disorder in large-scale genetic studies in the general population: comparison of a clinical interview and a self-administered checklist. *Psychiatr Genet*, 27(5), 187-196. doi:10.1097/ypg.0000000000000182
- Milaneschi, Y., Lamers, F., Peyrot, W. J., Baune, B. T., Breen, G., Dehghan, A., . . . **Streit, F.**, . . . Penninx, B. (2017). Genetic Association of Major Depression With Atypical Features and Obesity-Related Immunometabolic Dysregulations. *JAMA Psychiatry*, 74(12), 1214-1225. doi:10.1001/jamapsychiatry.2017.3016
- Muhleisen, T. W., Reinbold, C. S., Forstner, A. J., Abramova, L. I., Alda, M., Babadjanova, G., . . . **Streit, F.**, . . . Cichon, S. (2018). Gene set enrichment analysis and expression pattern exploration implicate an involvement of neurodevelopmental processes in bipolar disorder. *J Affect Disord*, 228, 20-25. doi:10.1016/j.jad.2017.11.068
- Peyrot, W. J., Van der Auwera, S., Milaneschi, Y., Dolan, C. V., Madden, P. A. F., Sullivan, P. F., . . . **Streit, F.**, . . . Penninx, B. (2017). Does Childhood Trauma Moderate Polygenic Risk for Depression? A Meta-analysis of 5765 Subjects From the Psychiatric Genomics Consortium. *Biol Psychiatry*. doi:10.1016/j.biopsych.2017.09.009
- Rietschel, L. *, **Streit, F.***, Zhu, G., McAloney, K., Frank, J., Cuvy-Duchesne, B., . . . Rietschel, M. (2017). Hair Cortisol in Twins: Heritability and Genetic Overlap with Psychological Variables and Stress-System Genes. *Sci Rep*, 7(1), 15351. doi:10.1038/s41598-017-11852-3
- Rietschel, L. *, **Streit, F.***, Zhu, G., McAloney, K., Kirschbaum, C., Frank, J., . . . Martin, N. G. (2016). Hair Cortisol and Its Association With Psychological Risk Factors for Psychiatric Disorders: A Pilot Study in Adolescent Twins. *Twin Res Hum Genet*, 19(5), 438-446. doi:10.1017/thg.2016.50
- Schilling, C., Gappa, L., Schredl, M., **Streit, F.**, Treutlein, J., Frank, J., . . . Witt, S. H. (2018). Fast sleep spindle density is associated with rs4680 (Val108/158Met) genotype of catechol-O-methyltransferase (COMT). *Sleep*, 41(3). doi:10.1093/sleep/zsy007
- Send, T. S., Gilles, M., Codd, V., Wolf, I., Bardtke, S., **Streit, F.**, . . . Witt, S. H. (2017). Telomere Length in Newborns is Related to Maternal Stress During Pregnancy. *Neuropsychopharmacology*, 42(12), 2407-2413. doi:10.1038/npp.2017.73
- Send, T. S., Gilles, M., Codd, V., Wolf, I. A. C., Bardtke, S., **Streit, F.**, . . . Witt, S. H. (2018). Response to the letter by Esteves et al. *Neuropsychopharmacology*. doi:10.1038/s41386-018-0079-8
- Streit, F.**, Akdeniz, C., Haddad, L., Kumsta, R., Entringer, S., Frank, J., . . . Wust, S. (2017). Sex-specific association between functional neuropeptide S receptor gene (NPSR1) variants and cortisol and

- central stress responses. *Psychoneuroendocrinology*, 76, 49-56.
doi:10.1016/j.psyneuen.2016.10.027
- Streit, F.***, Bekrater-Bodmann, R.*, Diers, M., Reinhard, I., Frank, J., Wust, S., . . . Rietschel, M. (2015). Concordance of Phantom and Residual Limb Pain Phenotypes in Double Amputees: Evidence for the Contribution of Distinct and Common Individual Factors. *J Pain*, 16(12), 1377-1385.
doi:10.1016/j.jpain.2015.08.013
- Streit, F.**, Haddad, L., Paul, T., Frank, J., Schafer, A., Nikitopoulos, J., . . . Wust, S. (2014). A functional variant in the neuropeptide S receptor 1 gene moderates the influence of urban upbringing on stress processing in the amygdala. *Stress*, 17(4), 352-361. doi:10.3109/10253890.2014.921903
- Streit, F.**, Memic, A., Hasandedic, L., Rietschel, L., Frank, J., Lang, M., . . . Rietschel, M. (2016). Perceived stress and hair cortisol: Differences in bipolar disorder and schizophrenia. *Psychoneuroendocrinology*, 69, 26-34. doi:10.1016/j.psyneuen.2016.03.010
- Streit, F.***, Treutlein, J.*, Frischknecht, U., Hermann, D., Mann, K., Kiefer, F., . . . Ende, G. (2018). Glutamate concentration in the anterior cingulate cortex in alcohol dependence: association with alcohol withdrawal and exploration of contribution from glutamatergic candidate genes. *Psychiatr Genet*. doi:10.1097/ypg.0000000000000202
- Strohmaier, J., van Dongen, J., Willemsen, G., Nyholt, D. R., Zhu, G., Codd, V., . . . **Streit, F.**, . . . Martin, N. G. (2015). Low Birth Weight in MZ Twins Discordant for Birth Weight is Associated with Shorter Telomere Length and lower IQ, but not Anxiety/Depression in Later Life. *Twin Res Hum Genet*, 18(2), 198-209. doi:10.1017/thg.2015.3
- Strohmaier, J., Wust, S., Uher, R., Henigsberg, N., Mors, O., Hauser, J., . . . **Streit, F.**, . . . Rietschel, M. (2011). Sexual dysfunction during treatment with serotonergic and noradrenergic antidepressants: clinical description and the role of the 5-HTTLPR. *World J Biol Psychiatry*, 12(7), 528-538. doi:10.3109/15622975.2011.559270
- Trautmann, N., Foo, J. C., Frank, J., Witt, S. H., **Streit, F.**, Treutlein, J., . . . Rietschel, M. (2018). Response to therapeutic sleep deprivation: a naturalistic study of clinical and genetic factors and post-treatment depressive symptom trajectory. *Neuropsychopharmacology*. doi:10.1038/s41386-018-0092-y
- Treutlein, J., Frank, J., **Streit, F.**, Reinbold, C. S., Juraeva, D., Degenhardt, F., . . . Rietschel, M. (2017). Genetic Contribution to Alcohol Dependence: Investigation of a Heterogeneous German Sample of Individuals with Alcohol Dependence, Chronic Alcoholic Pancreatitis, and Alcohol-Related Cirrhosis. *Genes (Basel)*, 8(7). doi:10.3390/genes8070183
- Treutlein, J., Strohmaier, J., Frank, J., Witt, S. H., Rietschel, L., Forstner, A. J., . . . , **Streit, F.**, . . . Rietschel, M. (2017). Association between neuropeptide Y receptor Y2 promoter variant rs6857715 and major depressive disorder. *Psychiatr Genet*, 27(1), 34-37.
doi:10.1097/ypg.0000000000000149
- Witt, S. H., Frank, J., Gilles, M., Lang, M., Treutlein, J., **Streit, F.**, . . . Rietschel, M. (2018). Impact on birth weight of maternal smoking throughout pregnancy mediated by DNA methylation. *BMC Genomics*, 19(1), 290. doi:10.1186/s12864-018-4652-7
- Witt, S. H.*, **Streit, F.***, Jungkunz, M., Frank, J., Awasthi, S., Reinbold, C. S., . . . Rietschel, M. (2017). Genome-wide association study of borderline personality disorder reveals genetic overlap with bipolar disorder, major depression and schizophrenia. *Transl Psychiatry*, 7(6), e1155.
doi:10.1038/tp.2017.115
- Wray, N. R., Ripke, S., Mattheisen, M., Trzaskowski, M., Byrne, E. M., Abdellaoui, A., . . . **Streit, F.**, . . . Sullivan, P. F. (2018). Genome-wide association analyses identify 44 risk variants and refine the genetic architecture of major depression. *Nat Genet*, 50(5), 668-681. doi:10.1038/s41588-018-0090-3
- Zeng, Y., Navarro, P., Shirali, M., Howard, D. M., Adams, M. J., Hall, L. S., . . . **Streit, F.**, . . . McIntosh, A. M. (2017). Genome-wide Regional Heritability Mapping Identifies a Locus Within the TOX2 Gene Associated With Major Depressive Disorder. *Biol Psychiatry*, 82(5), 312-321.
doi:10.1016/j.biopsych.2016.12.012