

# Research Projects Overview

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## Max Planck Institute for Psycholinguistics

Nijmegen, the Netherlands, February 2014 – February 2017

- Genetic linkage analysis for handedness in a consanguineous family by using whole exome sequencing  
[doi.org/10.1016/j.neuropsychologia.2015.11.010](https://doi.org/10.1016/j.neuropsychologia.2015.11.010)
- Cerebellar and cerebral structural asymmetries in a large dataset in association to handedness  
[doi.org/10.1007/s00429-016-1295-9](https://doi.org/10.1007/s00429-016-1295-9)
- Genetics of "Atypical" language lateralization, using whole genome sequencing  
[doi.org/10.1111/gbb.12572](https://doi.org/10.1111/gbb.12572)
- Association analysis on midline crossing genes and cerebral structural asymmetries

## University of Regensburg

Regensburg, Germany, February 2012 – August 2013

### Neurology, Department of Molecular Cell Biology

Professor Dr. Eugen Kerkhoff Lab

- Master's thesis: Transcriptional regulation analysis of mouse spir-2 actin nucleator

### Institute for Experimental Psychology

Professor Dr. Marc Greenlee Lab

- White matter fiber tracking by Diffusion Tensor Imaging analysis in macular degeneration patients and in healthy controls

### Neurology, Department of Molecular Cell Biology

Professor Dr. Eugen Kerkhoff Lab

- Identification of functional domains of actin nucleator Formin2 and its intracellular interaction with another actin nucleator Spir-1 by live cell imaging

### Department of Neurobiology and Animal Physiology

Professor Inga Neumann Lab

- Regulatory effect of oxytocin on TORC protein translocation in stress induced CRH transcription in rat PVN

## **UNAM Institute of Materials Science and Nanotechnology**

Ankara, Turkey, October 2009 – March 2011

- Zebra mussel adhesion to surfaces
- Analysis of TNT degradation by bacterial species and using it as a system of composting

## **Dalhousie University**

Halifax, Canada, July 2010 – August 2010

- Molecular engineering of a magnetic marker gene magA for detection of the activity of Egr-1, a gene related to long term potentiation

## **Refik Saydam Hıfzı Sıhha Molecular Microbiology Research Laboratory**

Ankara, Turkey, July 2009 – August 2009

- Footprinting of Bacillus anthracis repeat sequences by variable number tandem repeat (VNTR) analysis
- H1N1 virus genome sanger sequencing, identification of single nucleotide polymorphisms
- Pneumonia diagnosis from samples