

## Ph.D. student position

### “RNA-binding proteins in neurodegenerative diseases”

**Research project:** Our group focuses on the role of RNA-binding proteins in neurodegenerative diseases, especially amyotrophic lateral sclerosis (ALS) and frontotemporal dementia (FTD). Two RNA-binding proteins (FUS and TDP-43) are abnormally deposited in pathological inclusions in the brains of ALS and FTD patients and play a key role in disease pathogenesis. Previously we have shown that disturbed nuclear import of FUS and TDP-43 and cellular stress are crucial factors in disease pathogenesis. We are studying how FUS and TDP-43 shuttle between the nucleus and cytoplasm, how the two proteins are deposited in pathological protein inclusions and what role they play in neuronal dendrites.

**Methods:** range from protein biochemistry (e.g. Western blotting, purification of recombinant proteins, isolation of RNA-protein complexes from cell or brain extracts) and molecular biology (e.g. PCR, qPCR, cloning, RNA isolation), to imaging techniques (e.g. IHC, FISH, confocal microscopy, live cell imaging).

**We offer:** Excellent supervision by a young group leader, state of the art facilities (we will soon move to the new BioMedical Center located in Martinsried), a collaborative research environment and a competitive salary (TV-L E13, 65%).

**We seek:** Highly motivated students that have a diploma or masters degree in the field of biosciences (or will obtain it in the near future). We are particularly interested in candidates with lab experience in biochemistry, cell biology and molecular biology.

**Application deadline: 31 October 2014**

Please forward your application including motivation letter, CV and contact information of at least 2 referees via email to Dr. Dorothee Dormann ([dorothee.dormann@med.uni-muenchen.de](mailto:dorothee.dormann@med.uni-muenchen.de))