

NP02 (Dusan Bartsch) (Phd and Postdoc Position)

The Central Institute of Mental Health, Division of Molecular Biology, offers a position for a highly motivated PhD student. The position is funded by the EU Marie Curie Research Training Networks offering a PhD and Postdoc Position for 3 years/2 years. Our research activity is focused on the *in vivo* analysis of key voltage gated channels controlling Ca^{2+} entry into neurons. We are in particular interested in their role in synaptic plasticity and formation and decline of memories. The successful candidate will be involved in the generation and analysis of transgenic mouse and rat models with conditional knockout, knock-down or overexpression of the respective channel genes. A variety of methods will be applied in this project; including molecular biology, embryology, cell biology, biochemistry and behavioral analysis of genetically modified animals. The successful candidate will in addition supervise and manage mouse colony and genotyping of mice and rats. Candidates should have a Master or Diploma degree in Biology or related fields and have a strong background in molecular biology.

Post Doc position (two years). The candidate should have a PhD in psychopharmacology, molecular biology or neurobiology. The work will focus on the functional analysis of genetically modified animals with mutated function of voltage-gated L-type channels in the brain. The successful candidate will be involved in the analysis of transgenic mouse and rat models with conditional knockout, knock-down or overexpression of channel genes with the focus on learning and memory. Methods applied in this project include molecular biology, embryology, cell biology, biochemistry and behavioral analysis of genetically modified animals.

Furthermore, we expect from the candidates excellent communication and personal skills and dynamic interaction with other members of the Marie Curie Research Training Networks.