



# Neuroscience in Europe



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**N**euroscience is the fastest growing area in basic scientific research. Neuroscience is an interdisciplinary field designed to improve our understanding of neural communication mechanisms in health and disease. Treatments, cures, and, above all, knowledge are the possibilities that continue to be discovered through neuroscientific research.

The Neuroscience Group at the Medical Faculty of the University of Greifswald promotes interdisciplinary investigations from the level of gene expression in single neurons to imaging of localized regions of the human brain and neurorehabilitation. The Medical Faculty at the Ernst-Moritz-Arndt University is the beneficiary of the EU Programme "Unlocking and developing the research potential of research entities in the EU's convergence regions and outermost regions" whose implementation allowed us to acquire cutting-edge technology and equipment and to improve our research capacity in neuroscience by creating a network across Europe aimed at improving S&T experience and knowledge of researchers by short term and long term trainings with our Strategic Partners and exchange of know-how and experience with the scientific experts from;

- (1) Institute of Brain Research in Zurich, Switzerland;
- (2) Institute of Neuropathology, Zurich, Switzerland;
- (3) Institute of Human Genetics, Newcastle University, UK;
- (4) Physiology and Pathophysiology of Human Motor Control Research Group at the Sobell Department of Motor Neuroscience and Movement Disorders, Institute of Neurology, Queen Square, London, UK, and
- (5) the Department of Cognitive Neuroscience, Faculty of Psychology, Maastricht University, the Netherlands; Laboratory of Neural Stem Cell Biology, University of Lund, Sweden.

Project Coordinator is Prof. Dr. Aurel Popa-Wagner, Director of the Laboratory of Experimental Neurology, Medical Faculty, Greifswald, Germany. Improvement of the

research capacity in neuroscience at Ernst Moritz Arndt University Greifswald will be a process with several steps starting with collaboration with strategic partners in Europe and followed by support workshops, equipment purchase, collaborative applications and dissemination of gained knowledge and experience.

The objectives of ImpactG will be reached through the implementation of nine work packages as follows:

- (1) Improvement of the S&T experience and knowledge of researchers in cellular and molecular neuroscience at the EMAU Greifswald (WP Leader: Prof. A. Popa-Wagner);
- (2) Collaboration with strategic partners and training for the improvement of the research capacity in the treatment of neurodegenerative diseases at the EMAU Greifswald (WP Leader: Dr. M. Sabolek);
- (3) Improvement of the S&T experience and knowledge of researchers in molecular neuropathology (WP Leader: PD Dr. S. Vogelgesang);
- (4) molecular neurophysiology (WP Leader: Prof. H. Brinkmeier) and
- (5) neurorehabilitation at the EMAU Greifswald (WP Leader: PD T. Platz).

Details please find under [http://www.medicin.uni-greifswald.de/neuroscience\\_group/index.php?id=376](http://www.medicin.uni-greifswald.de/neuroscience_group/index.php?id=376)

Project dissemination includes the organization of three workshops with international participation to facilitate knowledge transfer at international level.

The first workshop is scheduled for **March 25-27** and will provide a state of the art update on brain regeneration after injuries. Among the speakers we mention several researchers of high reputation from Europe and Israel including: Nora Abrous, Ludwig Aigner, Matthias Endres, Magdalena Götz, Frank Kirchhoff, Zaal Kokaia, Georg Kuhn, Liliana Minichiello, Adi Mizrahi, Olivier Raineteau, Marc van Zandvoort.