



Development of Technology of Regenerative Medicine for Treatment of Brain Diseases

European Social Fund

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The purpose of the project is to support young researchers and postdoctoral students in research and application of innovative technologies for regenerative medicine in diseases of the brain. New technologies designed for this task include stem cells, application of biomaterials and tissue engineering. Specifically, this project intends to educate young scientists to carry out research of brain damage after a stroke using mouse model, and developing therapeutic applications of stem cells and biomaterials for the restoration and recovery of the damage of the brain.

The overall objective of this project is to contribute to increasing the competitiveness of young researchers and postdoctoral fellows in Croatia in regenerative medicine in diseases of the brain. The specific objectives are: (1) To boost research competence of young researchers and postdoctoral researchers while creating condition to integrate young researchers and postdoctoral researchers in the European Research Area through mobility and networking. (2) to boost entrepreneurial knowledge and skills of young researchers and postdoctoral fellows, while bringing preconditions for the implementation of cooperation with the business sector, and (3) to increase visibility and recognition of the results of research of young researchers and postdoctoral fellows on EU level, while strengthening the awareness of the general public about the importance of funding research for society as a whole.

The project proposal is in line with the strategic documents of the Ministry of science education and sports of the Republic of Croatia, the EU Council, with documents of the European Brain Council, the EU Joint Programme for Neurodegenerative Disease Research, the Croatian Council for Brain Research and the Regional Network for regenerative medicine and cell therapy.

The target groups of the project are 5 researchers, two postdoctoral researchers, two young researchers and one new postdoctoral fellow working on the project. Each of them will take one of the five main activities: (1) Development of technology of stem cells, (2) Development of technology for evaluation of new protocols in the treatment of stroke, (3) Development of technology of tissue engineering in the treatment of stroke, (4) Development of bioimaging, (5) Development of technology of evaluation of the positive effects of stem cells.