

SPATIAL PROFILE OF ankrd1a ACTIVATION DURING REGENERATION OF ZEBRAFISH HEART

<u>Mina Milovanovic</u>,¹ Srdjan Boskovic,¹ Jovana Jasnic,¹ Mirjana Novkovic,¹ Emilija Milosevic,¹ Snezana Kojic¹ ¹Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Belgrade, Serbia;



Project duration: 2022-2025.

In contrast to humans, zebrafish have a remarkable ability to regenerate injured heart through a complex and highly orchestrated process involving all cardiac structures. The major source of new myocardial cells are resident cardiomyocytes (CMs), which dedifferentiate and reinitiate proliferation, invading the area of injury to replace the lost myocardium. The response of the myocardium and endocardium and endocardium, which form active scaffolds to guide regeneration.

This study aimed to identify cardiac structures in which the ankrd1a gene is activated during zebrafish heart regeneration.

