

## **Abstract**

The diploma thesis deals with the influence of lifestyle on the immune system and project-based teaching of the immune system in elementary school biology. The theoretical part is devoted to embedding elementary school biology and topics covering the curriculum of the immune system in curricular documents and literary research of the immune system and related topics with regard to life management and the definition of project teaching.

The aim of the practical part was to design, implement and evaluate the project teaching of the immune system, intended for the 8th year of primary school. The teaching evaluation was carried out in two parallel classes of the 8th grade at a selected primary school with a sample of 41 pupils. The goal of the evaluation was to verify the knowledge about the immune system and to find out the subjective evaluation of the implemented teaching for pupils of two eighth grades at a selected elementary school with an interval of two weeks. The data was collected using a pretest and posttest and a questionnaire to determine the subjective evaluation of the project day by the pupils.

The goal of the implemented project was to acquire knowledge of the immune system and connect it with the already acquired knowledge of practical principles of life management and the development of competencies such as working with information, responsibility for a common task and working in a team on a common product. The final product of the project is student teaching presentations and informational posters. The aim of the research was to verify the knowledge about the immune system and to find out the subjective evaluation of the implemented teaching in two eighth graders at a selected elementary school, with an interval of two weeks.

## **Keywords**

Immune system, biology, elementary school, project method