

## **Abstract**

The bachelor thesis deals with the importance of nitric oxide in the development of neurodegenerative diseases. Nitric oxide is a biological active gas which affects, among other things, many functions of the central nervous system. Its activity is dependent on the concentration in small amounts has a positive effect, while overproduction contributes significantly to the development of neurodegenerative diseases. In my work, I deal with the negative influence of nitric oxide in the development of epileptic seizures, Parkinson's disease, Alzheimer's disease and Huntington's disease. In conclusion, I mentioned the possibility of determining the amount of nitric oxide concentration.

## **Keywords**

Nitric oxide, ROS, RNS, neurodegenerative diseases, epileptic seizures, Parkinson's disease, Alzheimer's disease, Huntington's disease