

## **Abstract**

*Neurodegenerative disorders represent due to their still increasing trend serious problem not only medical, but also socio-economic. The most common disorders in human population include Alzheimer's disease, Parkinson's disease, Huntington's disease and Amyotrophic lateral sclerosis. Underlying ethiopathogenetical mechanisms are not closely clarified yet. Potential conjunction between neurodegenerative disorders and stress is mentioned. Supposed relationship between neurodegenerative disorders and stress is based on knowledge of functional interrelationships among nervous, endocrine and immune systems. Animal models are very helpful for research in objective field and they can contribute to the elucidation of involved biological mechanisms. Knowledge of these processes could enable development of new diagnostic and therapeutic approaches in future.*