

Study on the analysis of N-glycosylation changes of glycoproteins and the role of glycosylation of protein quality control mechanism in cellular disease model

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Country

Poland

Title of project or programme

Study on the analysis of N-glycosylation changes of glycoproteins and the role of glycosylation of protein quality control mechanism in cellular disease model

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Ministry of Science and Higher Education

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€ 6,006

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01/01/2015

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2

Keywords

Research Abstract

Parkinson's disease (PD) is a progressive neurodegenerative disorder manifested by gradual degeneration of dopaminergic neurons within the substantia nigra. The disease is recognized as one of the major medical and social problems. The exact causes and mechanisms of

development of this disease are still unknown. Most of the previous research indicated, that the pathogenesis of PD could be based on disturbances in the functioning of mitochondria and/or oxidative stress. This project is focused on some novel aspects of possible mechanisms underlying the PD. The main aim of the study is to analyse the changes of protein N-glycosylation that accompany the neurotoxic effect that simulates PD in vitro. We are also planning to study the role of ER-alpha-mannosidase I enzyme during protein quality control upon dopaminergic neurotoxicity.

Further information available at:

Types:

Investments < €500k

Member States:

Poland

Diseases:

N/A

Years:

2016

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