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Neurodegenerative Disease

Research

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Parkinson's U.K

Abstract

Methods used in the manuscript entitled "Modelling

human neuronal catecholaminergic pigmentation in rodents recapitulates age-related multisystem neurodegenerative deficits"



Files



Q SEARCH

Protocol



NAME

Open field

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NAME

Habituation and dishabituation (olfaction test)

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Grip strength test

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Blood pressure

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Heart rate

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Magnetic resonance imaging (MRI)





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Tail Suspension Test

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Passive avoidance (step-down test)

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Beam test

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Novel Object Recognition Test





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Immunoblot

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Quantification of p62-positive inclusions

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RNA and protein extraction from bulk dissections

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Gene expression analysis by quantitative Real-Time PCR (qPCR)





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Stereology-mediated cell count using StereoInvestigator

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Immunofluorescence on paraffin sections

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Intracellular neuromelanin quantification





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Rodent brain processing for histological analyses (update)

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Masson-Fontana Staining

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Protocol for preparing post-mortem tissue for intracellular neuromelanin quantification in H&Estained sections.

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Optical densitometry of neuronal fibers

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Immunohistochemistry on free-floating cryosections

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Hematoxylin and Eosin (H&E) Staining

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Survival Analysis





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In situ Hybridization for Tyrosinase

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Determination of free and protein-bound DA and NE and their metabolites and oxidation products by UPLC-MS/MS method

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In vivo microdialysis for striatal DA release

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Brain Clarification for Neuromelanin visualisation by OPT

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