

Aug 09, 2024 Version 3

# 

DOI

#### dx.doi.org/10.17504/protocols.io.4r3l2qq1ql1y/v3

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Vilalab Public



### Miquel Vila

VHIR-CIBERNED-ASAP

## OPEN ACCESS



DOI: dx.doi.org/10.17504/protocols.io.4r3l2qq1ql1y/v3

**Collection Citation:** Ariadna Laguna, Núria Peñuelas, Miquel Vila 2024. Modelling human neuronal catecholaminergic pigmentation in rodents recapitulates age-related multisystem neurodegenerative deficits. **protocols.io** 

https://dx.doi.org/10.17504/protocols.io.4r3l2qq1ql1y/v3/Version created by Miquel Vila

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Protocol status: Working
We use this collection and it's
working

• •

Created: June 04, 2024

Last Modified: August 09, 2024

Collection Integer ID: 105031



**Funders Acknowledgement:** 

**Aligning Science Across** 

Parkinson's

Grant ID: ASAP-020505

The Michael J. Fox

Foundation for Parkinson's

Research

Grant ID: MJFF-007184 and

MJFF-001059

Ministry of Science and

Innovation

Grant ID: PID2020-116339RB-

**EU Joint Programme** 

**Neurodegenerative Disease** 

Research

Grant ID: AC20/00121 La Caixa Bank Foundation Grant ID: ID 100010434

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

**VERSION 1** 

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#### **Protocol**



NAME

Habituation and dishabituation (olfaction test)

**VERSION 1** 

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#### **Protocol**



NAME

Grip strength test

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## **Protocol**



NAME

**Blood pressure** 

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## **Protocol**



NAME

Polysomnography

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## **Protocol**



NAME

Intestinal transit time

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## **Protocol**



NAME

Heart rate

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#### **Protocol**



NAME

Magnetic resonance imaging (MRI)





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## **Protocol**



NAME

**Tail Suspension Test** 

**VERSION 2** 

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## **Protocol**



NAME

Passive avoidance (step-down test)

**VERSION 1** 

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VHIR-CIBERNED-ASAP Miquel Vila

#### **Protocol**



NAME

Beam test

**VERSION 1** 

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## **Protocol**



NAME

**Novel Object Recognition Test** 





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#### **Protocol**



NAME

**Immunoblot** 

**VERSION 1** 

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#### **Protocol**



NAME

Quantification of p62-positive inclusions

**VERSION 1** 

**CREATED BY** 



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#### **Protocol**



NAME

RNA and protein extraction from bulk dissections

**VERSION 1** 

**CREATED BY** 



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## **Protocol**



NAME

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





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## **Protocol**



NAME

cDNA synthesis

**VERSION 1** 

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#### **Protocol**



NAME

Stereology-mediated cell count using StereoInvestigator

**VERSION 1** 

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#### **Protocol**



NAME

Immunofluorescence on paraffin sections

**VERSION 1** 

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## **Protocol**



NAME

Intracellular neuromelanin quantification





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## **Protocol**



Rodent brain processing for histological analyses (update)

**VERSION 3** 

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joan.compte

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#### **Protocol**



NAME

**Masson-Fontana Staining** 

**VERSION 1** 

**CREATED BY** 



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#### **Protocol**



NAME

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

**VERSION 1** 

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#### **Protocol**



NAME

Optical densitometry of neuronal fibers

**VERSION 1** 

**CREATED BY** 

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#### **Protocol**



NAME

Immunohistochemistry on free-floating cryosections

**VERSION 1** 

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## **Protocol**



Hematoxylin and Eosin (H&E) Staining

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## **Protocol**



NAME

Nissl Counterstaining - Cresyl Violet

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#### **Protocol**



NAME

**Survival Analysis** 





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NAME

**Reproduction Analysis** 

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#### **Protocol**



NAME

Transgenic mouse colony maintenance

#### **VERSION 1**

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#### **Protocol**



NAME

In situ Hybridization for Tyrosinase

#### **VERSION 1**

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## **Protocol**



NAME

In vivo microdialysis for striatal DA release





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## **Protocol**



Brain Clarification for Neuromelanin visualisation by OPT

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#### **Protocol**



NAME

Determination of free and protein-bound DA and NE, 5HT and Ach and their metabolites and oxidation products by UPLC-MS/MS method

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