

# Mechanisms of DJ-1 in an aging model of PD

<https://neurodegenerationresearch.eu/survey/mechanisms-of-dj-1-in-an-aging-model-of-pd/>

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### Country

Canada

## Title of project or programme

Mechanisms of DJ-1 in an aging model of PD

## Source of funding information

CIHR

## Total sum awarded (Euro)

€ 601,738

## Start date of award

01/10/2011

## Total duration of award in years

5.0

## The project/programme is most relevant to:

Parkinson's disease & PD-related disorders

## Keywords

### Research Abstract

Aging is a critical factor in the incidence of Parkinson's disease (PD). However, the initial causes of the disease are mostly unknown. One impediment to understanding the disease has been the lack of animal models of PD. Here we propose to generate one such chronic degenerative model based upon the loss of a gene, DJ-1, known to cause rare forms of PD. We propose to examine how loss of this gene sensitizes animals to environmental toxins known to cause the same loss of neurons as in PD. We will also explore how DJ-1 loss itself may cause spontaneous death of these neurons in the live animal. These studies will provide important new

insights into how PD progresses and provide new potential avenues of therapeutics.

**Lay Summary**

**Further information available at:**

**Types:**

Investments > €500k

**Member States:**

Canada

**Diseases:**

Parkinson's disease & PD-related disorders

**Years:**

2016

**Database Categories:**

N/A

**Database Tags:**

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