

Molecular Networks of Dopaminergic Neurons in Chordates (DOPAMINET)

<https://www.neurodegenerationresearch.eu/survey/molecular-networks-of-dopaminergic-neurons-in-chordates-dopaminet/>

Title of project or programme

Molecular Networks of Dopaminergic Neurons in Chordates (DOPAMINET)

Principal Investigators of project/programme grant

Title	Forname	Surname	Institution	Country
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Source of funding information

European Commission

Total sum awarded (Euro)

2967180

Start date of award

01-02-2009

Total duration of award in months

42

The project/programme is most relevant to

Parkinson's disease

Keywords

Parkinson,Zebrafish,Dopamine,System Biology,Gene Network,Transcriptome,Ciona,High Throughput,Gene Discovery,Enhancers,Cis-Regulatory Elements

Research abstract in English

Parkinson Disease is the second most common progressive neurodegenerative disorder. The selective degeneration of subsets of midbrain dopaminergic neurons is believed to be the primary cause for disruption of the ability to control movements. Objective. We propose to apply a highly interdisciplinary approach to construct complex networks consisting of protein coding genes, non-protein-coding genes and cis-regulatory elements within dopaminergic neurons in the brain across three chordate organisms (Mouse, Zebrafish and Ciona) to identify and compare gene regulatory networks in these neurons.

Lay summary