Molecular Networks of Dopaminergic Neurons in Chordates (DOPAMINET)

https://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

		Sumame	manution	Country
Dr	Stefano	Gustincich	SCUOLA INTERNAZIONALE SUPERIORE DI STUDI AVANZATI	Italy
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Italy				
Source	of funding in	formation		
Europea	an Commissior	ו		
Total su	um awarded (Euro)		
2967180	C			
Start da	te of award			
01-02-20	009			
Total du	uration of awa	ard in months		
42				
The pro	ject/program	me is most rele	vant to	
Parkinso	on's disease			
Keywor	ds			

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