

Primary cultures of dopaminergic neurons constitute a reliable experimental model of Parkinson's disease.

Parkinson's models at work

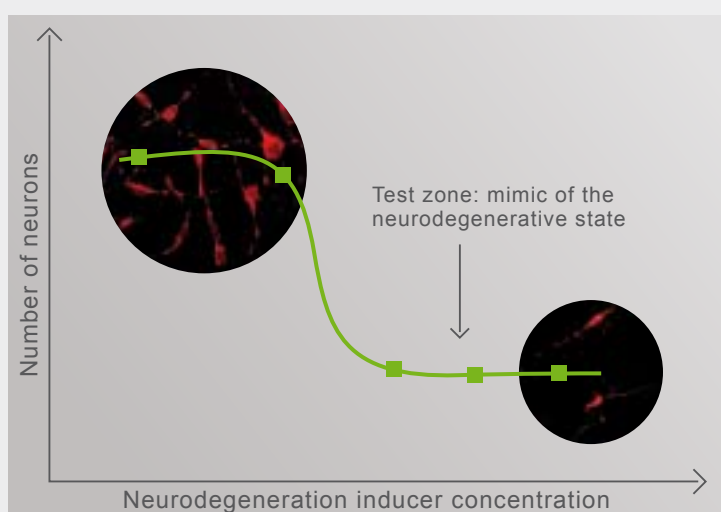
Step 1// Primary cultures of mesencephalic dopaminergic neurons grown in 96-well plates.

Step 2// Treatment with **neurodegeneration inducers** that mimic Parkinson's disease **symptoms** in vivo:

- **Rotenone:** induces nigrostriatal degeneration in rodents.
- **MPP+:** induces a Parkinsonian syndrome in mice & primates.
- **Epoxomycin:** replicates features of Parkinson's disease.

Step 3// **Specific quantification** of the depletion of dopaminergic neurons to measure the neurodegenerative state of the culture.

Parkinson's model in action



Neuroprotective screening

The core objective of Fluofarma Parkinson's models is to identify compounds able to **protect neurons** and to **delay the neurodegenerative process**.