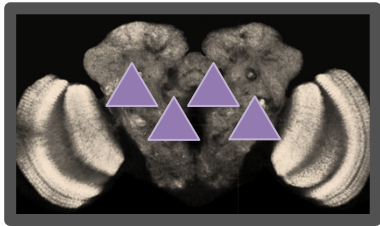


# Parkure

Human genetic PD causes  
Developing PD symptoms



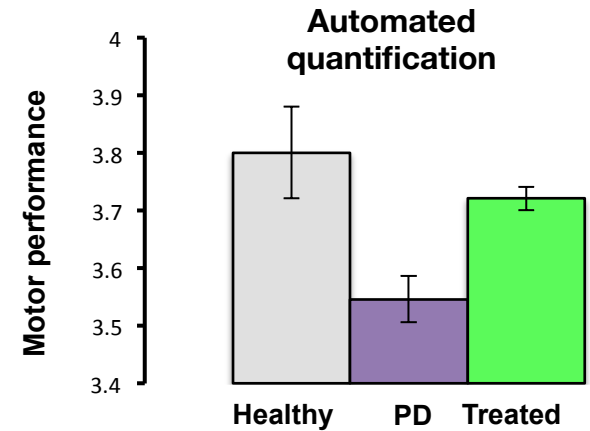
Genetically engineered  
fruit flies



Treated with  
candidate drugs



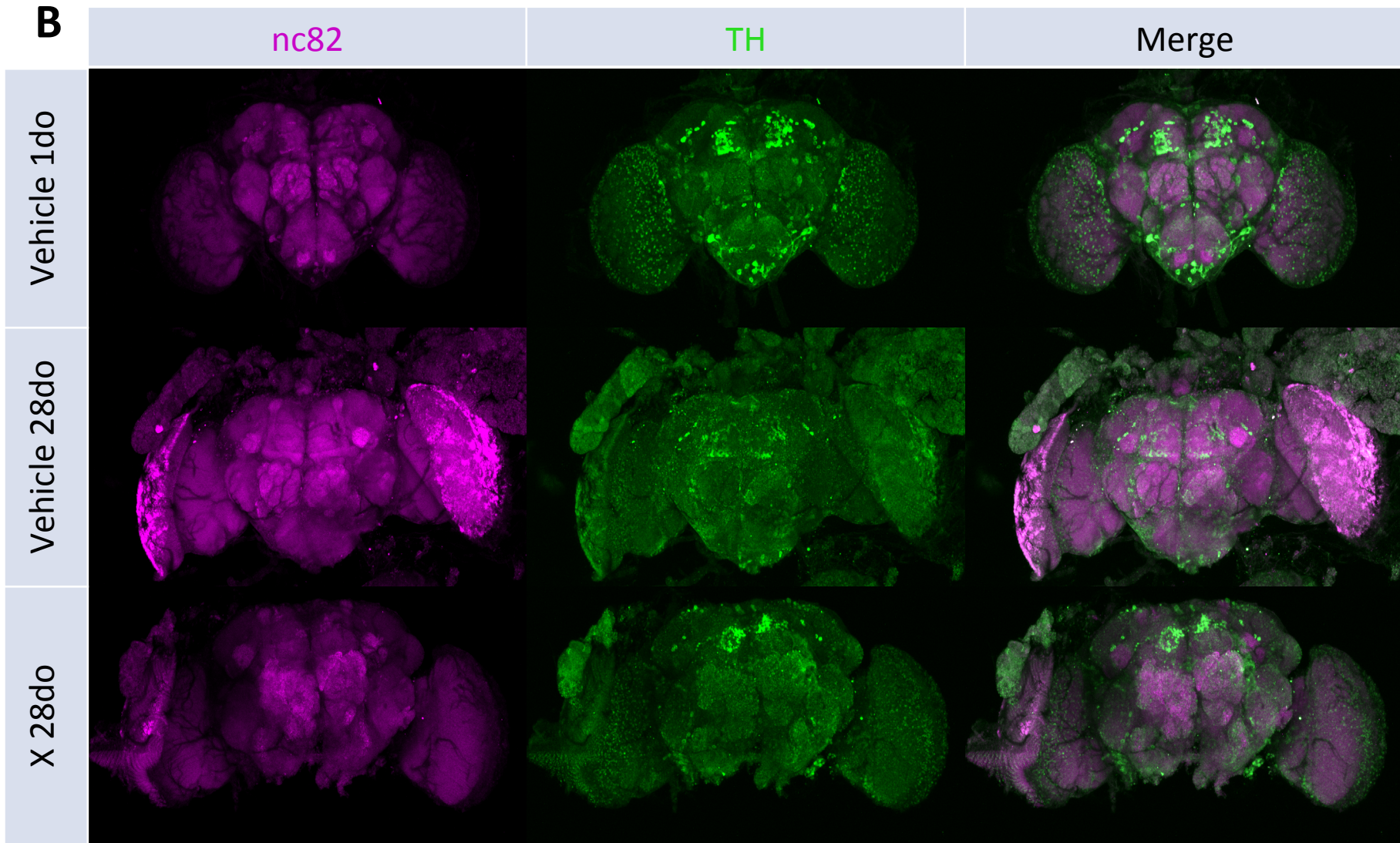
PD (Untreated)



- Fast & efficient transgenic fruitfly based primary assay
- Whole organism offers a much better context for testing drugs
  - Transgenic flies express a-synuclein and mutants
- Assay is not dependent on specific drug targets (c.f. in-vitro)
  - Has already delivered interesting hits (to be followed up)
  - Currently **10-20K compounds / year** limited by manpower



Via partnering, non-profit funding & co-development route



Samples from brains of transgenic flies which have developed Parkinson's at 1 (row 1) and 28 days (rows 2, 3). TH (second column) is the quantification of dopaminergic neurons. Note how in flies treated with X there are more dopaminergic neurons surviving.