HAL
open science

Mitochondrial quality control turns out to be the principal suspect in parkin and PINK1-related autosomal recessive Parkinson's disease.

Olga Corti, Alexis Brice

To cite this version:

Olga Corti, Alexis Brice. Mitochondrial quality control turns out to be the principal suspect in parkin and PINK1-related autosomal recessive Parkinson's disease.. Current Opinion in Neurobiology, 2013, 23 (1), pp.100-108. 10.1016/j.conb.2012.11.002 . inserm-00876368

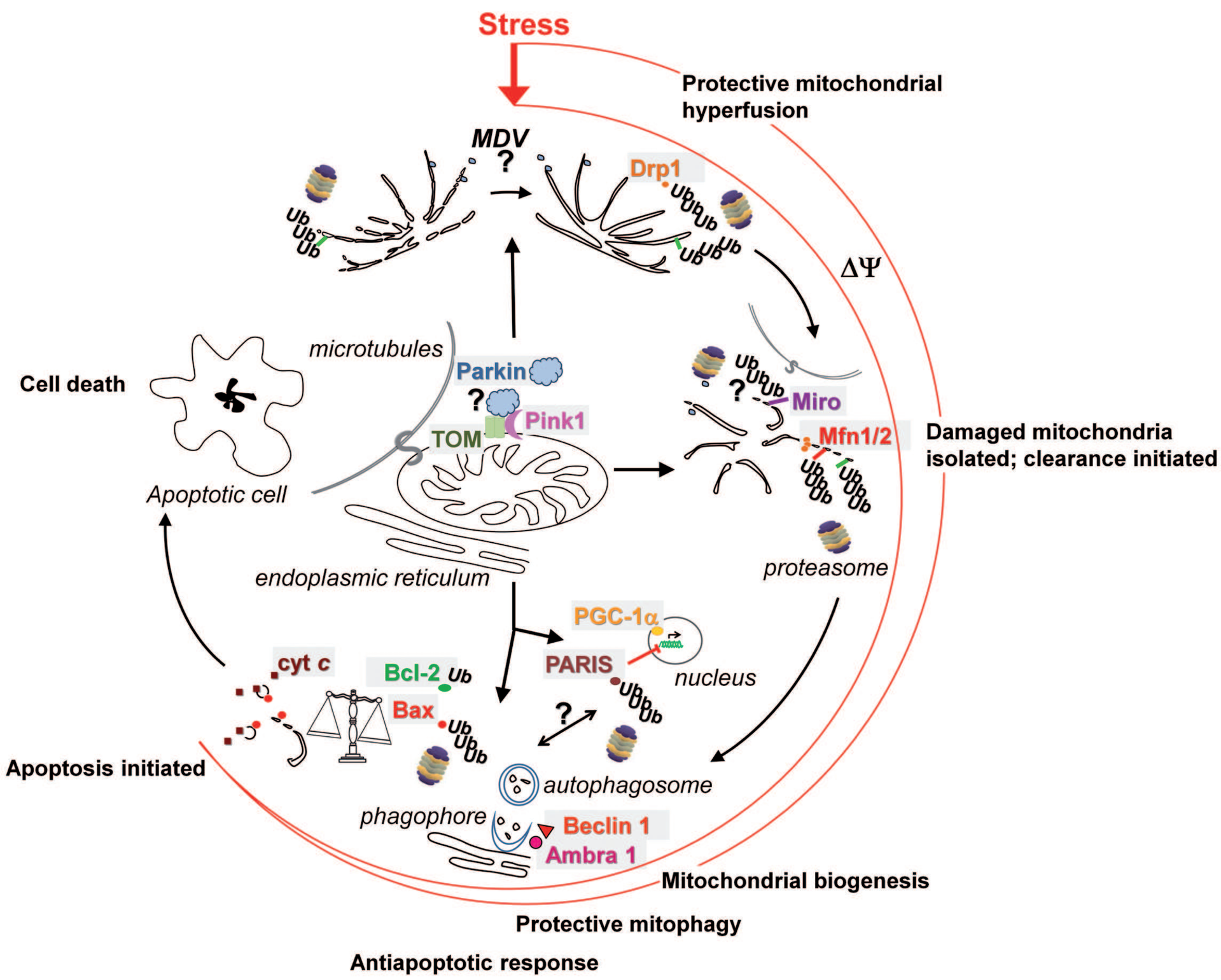
HAL Id: inserm-00876368

https://inserm.hal.science/inserm-00876368v1

Submitted on 24 Oct 2013

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.


Stress
Protective mitochondrial hyperfusion
MDV
?
Drp1
Ub
ΔΨ
microtubules
Cell death
Parkin
?
Pink1
TOM
Miro
Mfn1/2
Damaged mitochondria isolated; clearance initiated
Apoptotic cell
endoplasmic reticulum
proteasome
PGC-1α
PARIS
nucleus
cyt c
Bcl-2
Bax
?
Apoptosis initiated
autophagosome
phagophore
Beclin 1
Ambra 1
Mitochondrial biogenesis
Protective mitophagy
Antiapoptotic response