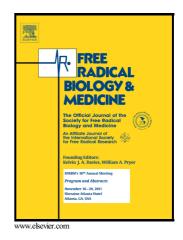
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Mitochondrial control of cell bioenergetics in Parkinson's disease

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Abbreviations

6-OHDA. 6-hydroxydopamine; ADTIO, 1-acetyl-6, 7dihydroxyl-1, 3. 4-2. tetrahydroisoquinoline; AMPK, 5'-AMP-activated protein kinase; ATF, activating transcription factor 6; ATM, ataxia telangiectasia mutated; CHOP, CCAAT/-enhancer-binding protein homologous protein; DA, dopamine; DAT, dopamine transporter; DI-ESI-MS, direct-infusion electrospray ionization mass spectrometry; PFKFB3, 6-phosphofructo-2-kinase/fructose-2,6bisphosphatase-3; G6PD, glucose-6-phosphate dehydrogenase; GAPDH, glyceraldehyde-3phosphate dehydrogenase; GBA, glucocerebrosidase; GD, Gaucher disease; GLUT, glucose transporter; GRP78/BiP, glucose regulated protein 78; HIF-1, hypoxia inducible factor 1; LSDs: lysosomal storage diseases; MAMs, mitochondrial-associated membranes; MB, methylene blue; MDVs, mitochondrial-derived vesicles; MPP⁺, methyl-4-phenylpyridinium; MPTP, 1-methyl-4phenyl-1,2,3,6-tetrahydropyridine; Paraquat, 1,1'-dimethyl-4,4'-bipyridinium dichloride; PD, Parkinson's disease; PDHA, pyruvate dehydrogenase; PERK, protein kinase RNA-like ER kinase; PINK1, PTEN-induced putative kinase 1; PPP, pentose phosphate pathway; SN, substantia nigra; SNCA:, α -synuclein gene; T2DM, type 2 diabetes mellitus; TIQ, tetrahydroisoquinoline; UPR, unfolded protein response

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