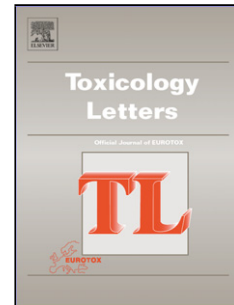


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Paraquat and MPTP induce alteration in the expression profile of long noncoding RNAs in the *substantia nigra* of mice: Role of the transcription factor Nrf2

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Highlights

- Nrf2 Knock-out may change the lncRNA and mRNA expression profiling in the SN.
- PQ, MPTP change the lncRNA expression profiling through an interaction with Nrf2.
- Nrf2 involved in the development of PD induced by PQ/MPTP via interactions of lncRNAs.

Abbreviations

Anti-DIG, Antibody against digoxigenin; APES, 3-Aminopropyl-Triethoxysilane; ARE Antioxidant response element; BSA, Bovine Serum Albumin; CNC, Coding-non-coding; Cy3 Cyanine Dye 3; DA, Dopamine; DAPI, 4,6-diamidino-2-phenylindole; DEPC, Diethyl pyrocarbonate; DMSO, Dimethyl sulfoxide; EDTA, Ethylenediamine tetraacetic acid; FISH Fluorescence in situ hybridization; FITC, Fluorescein isothiocyanate; GFAP, Glial fibrillary acidprotein; lncRNA, Long non-coding RNA; MPTP 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Nrf2, Nuclear factor-E2-related factor 2; PD, Parkinson's disease; POD, Peroxidase; PQ, Paraquat; QRT-PCR, Real Time Quantitative polymerase chain reaction; SN, substantia nigra; TH, Tyrosine hydroxylase; TSA, Tyramine signal amplification

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