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# High Fat Diet feeding induced insulin resistance exacerbates 6-OHDA mediated neurotoxicity and behavioral abnormalities in rats

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## Highlights

- The relationship of insulin resistance and PD pathology was also studied.
- Insulin resistance may be an important modifiable risk factor for PD.
- HFD exacerbated the effects of 6-OHDA on striatal dopamine loss and behavioral observations in rats.

## Abstract

Some of the clinical reports suggest that insulin resistance could be a risk factor for Parkinson's disease (PD) development, however experimental data is scarce. Our previous work has suggested that insulin resistance could be an important factor that leads to diabetes associated neurodegeneration. In the present study, we evaluated whether insulin resistance is

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