CLAIMS

1. Use of a zinc-desferrioxamine B complex in the preparation of a pharmaceutical composition for preventing, inhibiting, reducing, or ameliorating neurodegeneration.

2. The use according to claim 1 for the treatment of a neurodegenerative disease disorder or condition, including Parkinson's disease and Alzheimer’s disease and amyotrophic lateral sclerosis and Huntington's disease and age-related brain degeneration.

3. The use according to claim 1 for the treatment of a disorder or condition induced by an injury, including an injury caused by a mechanical force and ischemia and a toxic agent and hemorrhage.

4. The use according to claim 1 for the treatment of a disease disorder or condition caused by prion, including Creutzfeldt-Jakob disease and a subtype thereof and Gerstmann-Sträussler-Scheinker syndrome and fatal familial insomnia and kuru and Familial spongiform encephalopathy and multiple system atrophy.

5. Use of a kit in the preparation of a pharmaceutical composition for preventing, inhibiting, reducing, or ameliorating neurodegeneration, the kit comprising:
(i) a first component comprising a pharmaceutical composition of desferrioxamine B
(DFO) or a pharmaceutically acceptable salt thereof; and
(ii) a second component comprising a pharmaceutical composition of ion of zinc, to be administered concomitantly with the first component, or sequentially, at any order of administration, at any route of administration, including orally or by injection, and within a time period not exceeding 6 hours, to spontaneously obtain a zinc-DFO complex (a chemically defined new molecule), *in situ*.

6. The use of claim 5 wherein said neurodegeneration is associated with a neurodegenerative disease or disorder or condition, including Parkinson's disease and Alzheimer's disease and amyotrophic lateral sclerosis and Huntington's disease and age-related brain degeneration; a disorder or condition induced by an injury, including an injury caused by a mechanical force and ischemia and a toxic agent and hemorrhage and a disease disorder and a condition caused by a prion, including Creutzfeldt-Jakob disease and a subtype thereof and Gerstmann-Sträussler- Scheinker syndrome and fatal familial insomnia and kuru and Familial spongiform encephalopathy and multiple system atrophy.