CLAIMS

1. Use of a single metal-desferrioxamine B complex (a metal-DFO complex), in the preparation of a pharmaceutical composition for preventing, inhibiting, reducing, or ameliorating neurodegeneration.

2. The use according to claim 1, wherein said metal-DFO complex is zinc-DFO complex.

3. 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.

4. 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.

5. 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.

6. 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 metal-DFO complex (a chemically defined new molecule), in situ, or a combination of metal-DFO complexes.

7. The use of claim 6 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.