CLAIMS:

1. A composition comprising extracellular vesicles (EVs) produced from donor cells engineered to express a glutamate receptor (GluR) wherein the GluR is a metabotropic glutamate receptor-4 (GRM4) or a metabotropic glutamate receptor-8 (GRM8).

2. The composition of claim 1, wherein the donor cells are skin cells.

3. The composition of claim 1 or claim 2, wherein the EVs encapsulate a therapeutic or diagnostic cargo.

4. The composition of claim 3, wherein the therapeutic cargo comprises a proangiogenic, proneurogenic, or anti-inflammatory molecular cargo.

5. The composition of claim 3, wherein the diagnostic cargo comprises a molecular beacon.

6. Use of the composition according to any one of claims 3 to 5, in the manufacture of a medicament for treating a patient or subject with excitotoxicity, resulting from a CNS injury.

7. The use of claim 6, wherein the CNS injury comprises spinal cord injury, stroke, traumatic brain injury or a neurodegenerative disease.

8. The use of claim 7, wherein the neurodegenerative disease is Alzheimer's disease, Parkinson's disease, Huntington's disease, prion disease, motor neuron disease (MND), spinocerebellar ataxia (SCA) or spinal muscular atrophy (SMA).

9. The composition of claim 3, for use as a medicament.