Claims:

1. A pharmaceutical composition for alleviating or treating pain comprising a gene encoding glutamate decarboxylase (GAD) and a gene encoding a glial cell-derived neurotrophic factor (GDNF); a gene encoding interleukin-10 (IL-10) and a gene encoding GDNF; or a gene encoding GAD, a gene encoding IL-10 and a gene encoding GDNF, wherein the gene is in a form of being operably contained in a vector.

2. The pharmaceutical composition of claim 1, wherein the vector is at least one viral vector selected from the group consisting of adenovirus, adeno-associated virus, herpes simplex virus, lentivirus, retrovirus, and poxvirus.

3. The pharmaceutical composition of claim 1, wherein the vector is at least one non-viral vector selected from the group consisting of a plasmid, a liposome, a cationic polymer, a micelle, an emulsion, and solid lipid nanoparticles.

4. The pharmaceutical composition of any preceding claim, wherein the GAD is GAD65 or GAD67.

5. The pharmaceutical composition of any preceding claim, wherein the gene encoding GAD is the nucleotide sequence encoding the amino acid sequence represented by SEQ ID NO: 1, SEQ ID NO: 4, SEQ ID NO: 32, SEQ ID NO: 34 or SEQ ID NO: 36.

6. The pharmaceutical composition of any of claims 1 to 4, wherein the gene encoding GAD is the nucleotide sequence represented by SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 5, SEQ ID NO: 33, SEQ ID NO: 35 or SEQ ID NO: 37.

7. The pharmaceutical composition of any preceding claim, wherein the gene encoding IL-10 is the nucleotide sequence encoding the amino acid sequence represented by SEQ ID NO: 6, SEQ ID NO: 9, SEQ ID NO: 38, SEQ ID NO: 40 or SEQ ID NO: 42.

8. The pharmaceutical composition of any of claims 1 to 6, wherein the gene encoding IL-10 is the nucleotide sequence represented by SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 10, SEQ ID NO: 14, SEQ ID NO: 39, SEQ ID NO: 41 or SEQ ID NO: 43.

9. The pharmaceutical composition of any preceding claim, wherein the gene encoding GDNF is the nucleotide sequence encoding the amino acid sequence represented by SEQ ID NO: 11, SEQ ID NO: 44, SEQ ID NO: 46, or SEQ ID NO: 48.

10. The pharmaceutical composition of any of claims 1 to 8, wherein the gene encoding GDNF is the nucleotide sequence represented by SEQ ID NO: 12, SEQ ID NO: 13, SEQ ID NO: 45, SEQ ID NO: 47 or SEQ ID NO: 49.

11. The pharmaceutical composition of any preceding claim, wherein the pain is nociceptive pain, psychogenic pain, inflammatory pain, pathological pain, neuropathic pain, cancer pain, postoperative pain, trigeminal neuralgia pain, idiopathic pain, diabetic neuropathic pain, or migraine.

12. The pharmaceutical composition of any preceding claim, wherein the pharmaceutical composition further comprises a physiologically acceptable carrier.

13. The pharmaceutical composition of any preceding claim, wherein the pharmaceutical composition is provided in the form of an injection.

14. A pharmaceutical composition as defined in any of claims 1 to 13 for use in the alleviation or treatment of pain.

15. The pharmaceutical composition for use according to claim 14, wherein the use in the alleviation or treatment of pain is via epidural injection or intrathecal injection.

16. The pharmaceutical composition for use according to claim 14 or claim 15, wherein the pain is nociceptive pain, psychogenic pain, inflammatory pain, pathological pain, neuropathic pain, cancer pain, postoperative pain, trigeminal neuralgia pain, idiopathic pain, diabetic neuropathic pain, or migraine.

17. Use of a pharmaceutical composition as defined in any of claims 1 to 13 in the manufacture of a medicament for the alleviation or treatment of pain.