

Claims:

1. A method for delivering a nucleic acid into an immune cell, the method comprising incubating the immune cell with a red blood cell extracellular vesicle (RBCEV) loaded with a nucleic acid cargo.
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2. A method of transducing an immune cell with a nucleic acid, the method comprising incubating the immune cell with a RBCEV loaded with a nucleic acid cargo.
3. The method according to claim 1 or claim 2, wherein the immune cell is a peripheral blood
10 mononuclear cell (PBMC).
4. The method according to any one of claims 1 to 3, wherein the immune cell is a CD3+ cell.
5. The method according to any one of claims 1 to 4, wherein the immune cell is a T cell.
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6. The method according to any one of claims 1 to 4, wherein the immune cell is a dendritic cell.
7. The method according to any one of claims 1 to 6, wherein the method is performed *in vitro* or *ex vivo*.
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8. The method according to any one of claims 1 to 7, wherein the method comprises a step of loading the RBCEV with a nucleic acid cargo.
9. The method according to claim 8, wherein the loading step is performed *in vitro* or *ex vivo*.
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10. The method according to any one of claims 1 to 9, wherein the nucleic acid cargo comprises RNA.
11. The method according to any one of claims 1 to 10, wherein the nucleic acid cargo is selected from the group consisting of an antisense oligonucleotide, a messenger RNA, a siRNA, a miRNA, or a
30 plasmid.
12. The method according to any one of claims 1 to 11, wherein the method comprises an initial step of isolating an immune cell from a subject.
- 35 13. The method according to any one of claims 1 to 12, wherein the method comprises administering to a subject the immune cell comprising the RBCEV loaded with a nucleic acid cargo.
14. Use of a RBCEV loaded with a nucleic acid cargo for delivering the nucleic acid into an immune cell.

15. An immune cell comprising an exogenous nucleic acid, wherein the nucleic acid is or has been delivered using a RBCEV.
16. A composition comprising one or more immune cells comprising an exogenous nucleic acid, wherein the nucleic acid is or has been delivered using a RBCEV.
17. A method of treatment comprising administering to a subject in need of treatment a therapeutically effective amount of an immune cell according to claim 15 or a composition according to claim 16.
18. An immune cell according to claim 15 or a composition according to claim 16 for use in a method of treatment.
19. Use of an immune cell according to claim 15 or a composition according to claim 16 in the manufacture of a medicament for the treatment of a disease or disorder.

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