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(54) Title: ENGINEERED EXOSOMES FOR SKIN REJUVENATION

(57) Abstract: Disclosed is an engineered exosome, comprising (a) a KGF polypeptide, fused to a first anchoring polypeptide, (b) an EGF polypeptide, fused to a second anchoring polypeptide, and (c) a FGF-2 polypeptide, fused to a third anchoring polypeptide, wherein (a), (b) and (c) are anchored on a membrane of the exosome via the first, second and third anchoring polypeptide, respectively, and wherein the KGF polypeptide, the EGF polypeptide and the FGF-2 polypeptide are exposed on an outer surface of the membrane of the exosome. Also disclosed are compositions, nucleic acid constructs, and uses of the exosome for skin rejuvenation.

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