

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
24 July 2025 (24.07.2025)



(10) International Publication Number  
**WO 2025/152910 A1**

(51) International Patent Classification:

C12N 15/85 (2006.01) C07K 19/00 (2006.01)  
C12N 5/10 (2006.01) A61K 47/46 (2006.01)

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UY, UZ, VC, VN,  
WS, ZA, ZM, ZW.

(21) International Application Number:

PCT/CN2025/072167

(22) International Filing Date:

14 January 2025 (14.01.2025)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/CN2024/072310

15 January 2024 (15.01.2024) CN

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(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,  
CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,  
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,  
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,  
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,  
MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA,  
NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO,  
RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, CV,  
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST,  
SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ,  
RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ,  
DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,  
LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,  
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to the applicant's entitlement to claim the priority of the  
earlier application (Rule 4.17(iii))

Published:

— with international search report (Art. 21(3))  
— with sequence listing part of description (Rule 5.2(a))

(54) Title: ENGINEERED EXOSOMES FOR IMPROVING WOUND HEALING

(57) Abstract: Disclosed is an engineered exosome, comprising (a) an EGF polypeptide, fused to a first anchoring polypeptide, (b) a NGF polypeptide, fused to a second anchoring polypeptide, and (c) a PDGF-BB 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 EGF polypeptide, the NGF polypeptide and the PDGF-BB 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 wound healing.



WO 2025/152910 A1