

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2022/136033 A1

(43) International Publication Date
30 June 2022 (30.06.2022)

(51) International Patent Classification:

A61K 39/275 (2006.01) C12N 15/86 (2006.01)

(21) International Application Number:

PCT/EP2021/085774

(22) International Filing Date:

14 December 2021 (14.12.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

20216198.0 21 December 2020 (21.12.2020) EP

(71) Applicant: **EBERHARD KARLS UNIVERSITÄT TUEBINGEN MEDIZINISCHE FAKULTÄT**
[DE/DE]; Geschwister-Scholl-Platz, 72074 Tuebingen (DE).

(72) Inventors: **AMANN, Ralf**; Herrenberger Strasse 24, 72070 Tuebingen (DE). **SALOMON, Ferdinand**; Schmiedtorstrasse 8, 72072 Tuebingen (DE).

(74) Agent: **WITTE, WELLER & PARTNER PATENTANWÄLTE MBB / ZUSAMMENSCHLUSS EPA NR. 314**;
Postfach 10 54 62, 70047 Stuttgart (DE).

(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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, 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, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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).

Published:

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

(54) Title: MODIFIED PARAPOXVIRUS HAVING INCREASED IMMUNOGENICITY

(57) Abstract: The present invention relates to a modified Parapoxvirus, preferably a Parapoxvirus vector, having an increased immunogenicity, a biological cell containing said modified Parapoxvirus, a pharmaceutical composition, preferably a vaccine, containing said modified Parapoxvirus vector and/or said cell, and a new use of said modified Parapoxvirus.



WO 2022/136033 A1