

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
28 November 2024 (28.11.2024)



(10) International Publication Number
WO 2024/241172 A3

(51) International Patent Classification:

A61K 39/12 (2006.01) A61P 11/00 (2006.01)
A61K 39/09 (2006.01) A61K 39/00 (2006.01)

(21) International Application Number:

PCT/IB2024/054810

(22) International Filing Date:

17 May 2024 (17.05.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/503,241 19 May 2023 (19.05.2023) US

(71) Applicant: **GLAXOSMITHKLINE BIOLOGICALS**
SA [BE/BE]; Rue de l'Institut 89, B-1330 Rixensart (BE).

(72) Inventors: **FELU, Cecile**; Avenue Pascal 2-4-6, 1300
Wavre (BE). **DEZUTTER, Nancy**; Avenue Pascal 2-4-6,
1300 Wavre (BE).

(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,
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, 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 applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii))

(54) Title: METHODS FOR ELICITING AN IMMUNE RESPONSE TO RESPIRATORY SYNCYCLIAL VIRUS AND STREPTOCOCCUS PNEUMONIAE INFECTION

(57) Abstract: Provided herein are methods, immunogenic combinations, immunogenic compositions, and uses thereof directed to co-administration of an immunogenic composition comprising a recombinant RSV antigen comprising a soluble F protein comprising at least one modification that stabilizes the prefusion conformation of the F protein; and an immunogenic composition comprising at least one glycoconjugate from each of S. pneumoniae serotypes 1, 3, 4, 5, 6A, 6B, 7F, 8, 9V, 10A, 11A, 12F, 14, 15B, 18C, 19A, 19F, 22F, 23F and 33F.

WO 2024/241172 A3