

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 March 2021 (04.03.2021)



(10) International Publication Number
WO 2021/041834 A1

(51) International Patent Classification:

A61K 39/00 (2006.01) C07K 16/28 (2006.01)
A61K 39/395 (2006.01) C07K 16/46 (2006.01)
C07K 16/00 (2006.01) C12N 5/10 (2006.01)

(21) International Application Number:

PCT/US2020/048440

(22) International Filing Date:

28 August 2020 (28.08.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/894,660 30 August 2019 (30.08.2019) US

(71) Applicant (for all designated States except AL, AT, BE, BG, CH, CN, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IN, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR): **GENENTECH, INC.** [US/US]; 1 DNA Way, South San Francisco, CA 94080-4990 (US).

(71) Applicant (for AL, AT, BE, BG, CH, CN, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IN, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

only): **F. HOFFMANN-LA-ROCHE AG** [CH/CH]; Grenzacherstrasse 124, 4070 Basel (CH).

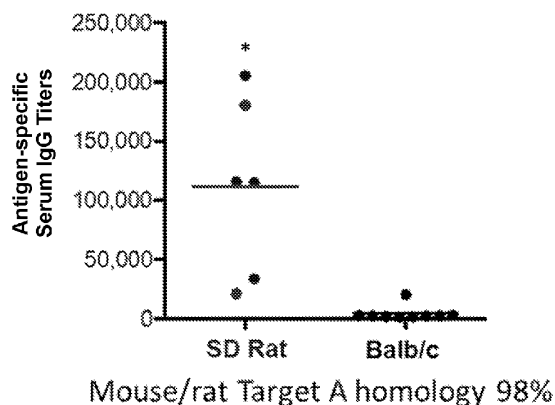
(72) Inventors: **HAZEN, Meredith Carroll**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080-4990 (US). **LIN, Zhonghua**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080-4990 (US). **SESHASAYEE, Dhaya**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, CA 94080-4990 (US).

(74) Agent: **BRAYMAN, Melissa, J.** et al.; Mintz Levin Cohn Ferris Glovsky and Popeo, P.C., One Financial Center, Boston, MA 02111 (US).

(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.

(54) Title: DEVELOPING AN EFFICIENT HYBRIDOMA PLATFORM FOR THERAPEUTIC ANTIBODY DISCOVERY

FIG. 1A



(57) Abstract: The instant technology generally relates to improved methods for producing antibodies, antibody libraries, hybridomas, hybridoma libraries, etc. For example, these methods increase the number of antigen-specific B cells produced, increase the number of hybridomas, and/or increase the number of monoclonal antibodies that can be made in a given production cycle.

[Continued on next page]

(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).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*