

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
10 March 2022 (10.03.2022)



(10) International Publication Number
WO 2022/051245 A3

(51) International Patent Classification:

A61P 29/00 (2006.01) C12N 15/09 (2006.01)
A61P 37/00 (2006.01) C12Q 1/68 (2018.01)

(21) International Application Number:

PCT/US2021/048346

(22) International Filing Date:

31 August 2021 (31.08.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/073,336 01 September 2020 (01.09.2020) US

(71) Applicant: **SCIPHER MEDICINE CORPORATION**
[US/US]; 221 Crescent Street, Suite 103A, Waltham, Mass-
achusetts 02453 (US).

(72) Inventors: **GHIASSIAN, Susan**; 221 Crescent Street,
Suite 103A, Waltham, Massachusetts 02453 (US). **SAN-
TOLINI, Marc**; c/o Scipher Medicine Corporation, 221
Crescent Street, Suite 103A, Waltham, Massachusetts
02453 (US). **SCHOENBRUNNER, Nancy**; c/o Scipher
Medicine Corporation, 221 Crescent Street, Suite 103A,
Waltham, Massachusetts 02453 (US). **JOHNSON, Keith
J.**; c/o Scipher Medicine Corporation, 221 Crescent Street,
Suite 103A, Waltham, Massachusetts 02453 (US).

(74) Agent: **ALEMOZAFAR, Ali** et al.; Wilson Sonsini
Goodrich & Rosati, 650 Page Mill Road, Palo Alto, CA
94304-1050 (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.

(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:

— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

Published:

— with international search report (Art. 21(3))
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

14 April 2022 (14.04.2022)

(54) Title: METHODS AND SYSTEMS FOR PREDICTING RESPONSE TO ANTI-TNF THERAPIES

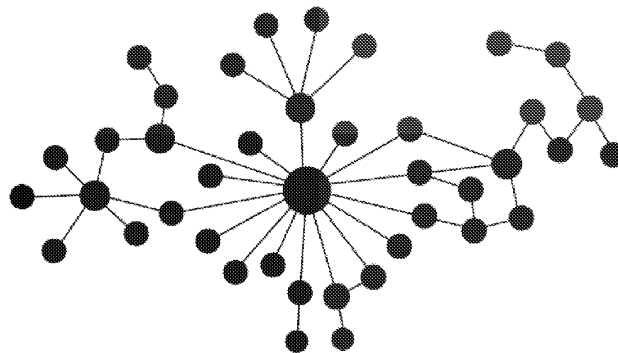


FIG. 1A

(57) Abstract: Methods and systems for administering therapy to subjects who have been determined to not display a gene expression response signature established to distinguish between responsive and non-responsive prior subjects who have received anti-TNF therapy.



WO 2022/051245 A3