



(51) International Patent Classification:

C12Q 1/68 (2006.01) *A61K 39/395* (2006.01)
G01N 33/53 (2006.01) *C07K 16/00* (2006.01)
A61K 38/00 (2006.01)

(21) International Application Number:

PCT/US2013/031178

(22) International Filing Date:

14 March 2013 (14.03.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/616,394 27 March 2012 (27.03.2012) US
 61/707,411 28 September 2012 (28.09.2012) 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, California 94080 (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, CH-4070 Basel (CH).

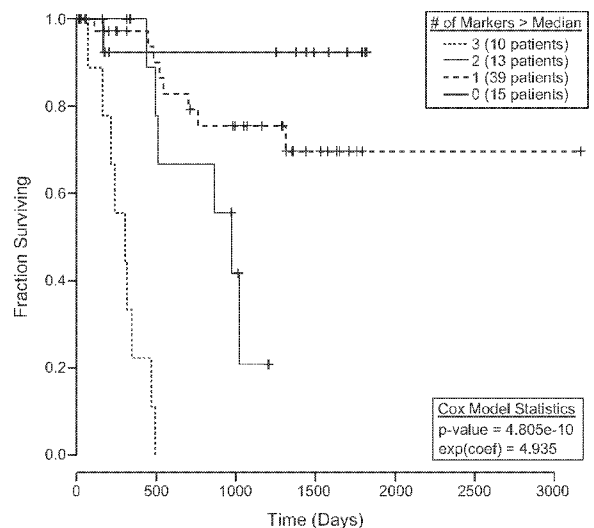
(72) **Inventors**: **ABBAS, Alexander R.**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, California 94080 (US). **ARRON, Joseph R.**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, California 94080 (US). **CHANDRIANI, Sanjay**; 55 28th Street, San Francisco, California 94110 (US). **JIA, Guiguan**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, California 94080 (US). **LEWIN-KOH, Nicholas J. I.**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, California 94080 (US). **DEPIANTO, Daryle**; c/o Genentech, Inc., 1 DNA Way, South San Francisco, California 94080 (US).

(74) **Agents**: **DAVIS, Jennifer L.** et al.; Genentech, Inc., 1 DNA Way, MS-49, South San Francisco, California 94080 (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,

[Continued on next page]

(54) **Title**: METHODS OF PROGNOSED, DIAGNOSING AND TREATING IDIOPATHIC PULMONARY FIBROSIS

**FIG. 8**

(57) **Abstract**: Compositions, kits and methods for assessing the prognosis of idiopathic pulmonary fibrosis in patients are provided. In addition, compositions, kits and methods for diagnosing subtypes of idiopathic pulmonary fibrosis are provided. Also provided are methods for treating idiopathic pulmonary fibrosis.



BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, 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, ML, MR, NE, SN, TD, TG).

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))
- with sequence listing part of description (Rule 5.2(a))