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61/781,187 14 March 2013 (14.03.2013) 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: **STRASSER, Geraldine**; 1 DNA Way, South San Francisco, California 94080 (US). **LO, Bryan**; 1 DNA Way, South San Francisco, California 94080 (US).(74) Agent: **SCARR, Rebecca, B.**; 2275 Deming Way, Suite 310, Middleton, Wisconsin 53562 (US).

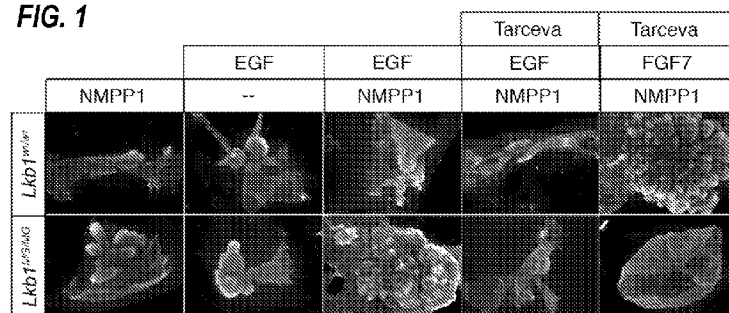
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(54) Title: PREDICTING RESPONSE TO EGFR INHIBITORS

FIG. 1

(57) Abstract: Methods of predicting whether a cancer will respond to an EGFR inhibitor are provided. In particular, methods are provided which rely on the determination of a LKB1 mutation.