

(51) International Patent Classification:
C07C 6/04 (2006.01)(21) International Application Number:
PCT/US2012/031662(22) International Filing Date:
30 March 2012 (30.03.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/471,036 1 April 2011 (01.04.2011) US(71) Applicant (for all designated States except US): GEN-
ENTECH, INC. [US/US]; 1 DNA Way, South San Fran-
cisco, California 94080-4990 (US).

(72) Inventors; and

(71) Applicants : LIN, Kui [US/US]; 1 DNA Way, South San
Francisco, California 94080-4990 (US). PUNNOOSE,
Elizabeth [US/US]; 1 DNA Way, South San Francisco,
California 94080-4990 (US). SESHAGIRI, Somasekar
[US/US]; 1 DNA Way, South San Francisco, California
94080-4990 (US).(74) Agents: MALEN, Peter, L. et al.; Viksnins Harris &
Padys PLLP, P.O. Box 111098, St. Paul, Minnesota
55111-1098 (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, BR, BW, BY, 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, 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, MD, 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).

Declarations under Rule 4.17:

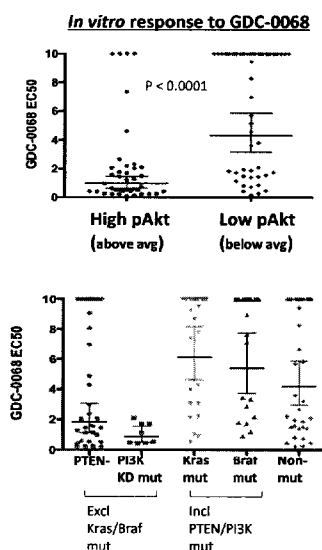
— of inventorship (Rule 4.17(iv))

Published:

— without international search report and to be republished
upon receipt of that report (Rule 48.2(g))

(54) Title: BIOMARKERS FOR PREDICTING SENSITIVITY TO CANCER TREATMENTS

High AKT activity predicts sensitivity to GDC-0068



GDC-0068 only targets active Akt

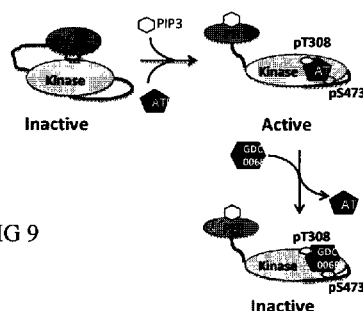


FIG 9

GDC-0068 sensitivity correlates with AKT
pathway activation.

(57) Abstract: Provided herein are biomarkers, and combinations of biomarkers, for predicting sensitivity to cancer treatments.