

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 November 2008 (20.11.2008)

PCT

(10) International Publication Number
WO 2008/138878 A3

(51) International Patent Classification:

C07D 471/04 (2006.01) **A61P 31/00** (2006.01)
A61K 31/4985 (2006.01) **A61P 35/00** (2006.01)

(21) International Application Number:

PCT/EP2008/055728

(22) International Filing Date: 9 May 2008 (09.05.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

07107976.8 10 May 2007 (10.05.2007) EP
60/917,129 10 May 2007 (10.05.2007) US

(71) Applicant: **ÆTERNA ZENTARIS GMBH** [DE/DE];
Weismüllerstrasse 50, 60314 Frankfurt am Main (DE).

(72) Inventors: **GERLACH, Matthias**; Pfarrgasse 1, 63636 Brachtal (DE). **SEIPELT, Irene**; Hermannstrasse 5, 63069 Offenbach (DE). **GÜNTHER, Eckhard**; Wingertstrasse 176, 63477 Maintal (DE). **POLYMERPOULOS, Emmanuel**; Beethovenstrasse 60, 60325 Frankfurt am Main (DE). **SCHUSTER, Tilmann**; Niederurseler Landstrasse 133, 60439 Frankfurt am Main (DE). **CLAUS, Eckhard**; Victor-Slotosch-Strasse 5, 60388 Frankfurt am Main (DE).

(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, CN, CO, CR, CU, CZ, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, ZA, ZM, ZW.

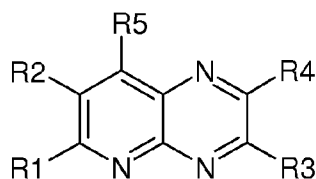
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

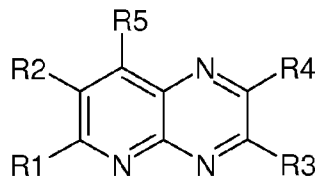
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
19 March 2009

(54) Title: NOVEL PYRIDOPYRAZINE DERIVATIVES, PROCESS OF MANUFACTURING AND USES THEREOF



(Ia)



(Ib)

(57) Abstract: The invention relates to novel pyrido[2,3-b]pyrazine derivatives of general formulae (Ia) and (Ib), to their preparation and use as medicaments, especially for the treatment of malignant disorders and other disorders based on pathological cell proliferations.