

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
9 April 2009 (09.04.2009)

PCT

(10) International Publication Number
WO 2009/046205 A1(51) International Patent Classification:
A01N 43/54 (2006.01)

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(21) International Application Number:
PCT/US2008/078606

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

(22) International Filing Date: 2 October 2008 (02.10.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/977,115 3 October 2007 (03.10.2007) US

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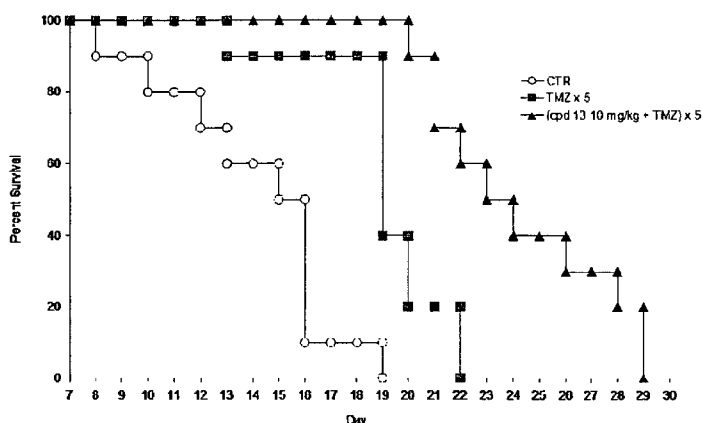
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, 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

(54) Title: PARP INHIBITOR COMPOUNDS, COMPOSITIONS AND METHODS OF USE

Figure 1



(57) Abstract: The present invention relates to tetraaza phenalen-3-one compounds which inhibit poly (ADP-ribose) polymerase (PARP) and are useful in the chemosensitization of cancer therapeutics. The induction of peripheral neuropathy is a common side-effect of many of the conventional and newer chemotherapies. The present invention further provides means to reliably prevent or cure chemotherapy- induced neuropathy. The invention also relates to the use of the disclosed PARP inhibitor compounds in enhancing the efficacy of chemotherapeutic agents such as temozolomide. The invention also relates to the use of the disclosed PARP inhibitor compounds to radiosensitize tumor cells to ionizing radiation. The invention also relates to the use of the disclosed PARP inhibitor compounds for treatment of cancers with DNA repair defects.

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