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(21) International Application Number: PCT/US98/18189 (22) International Filing Date: 2 September 1998 (02.09.98) (30) Priority Data: 08/922,548 3 September 1997 (03.09.97) US 09/047,502 25 March 1998 (25.03.98) US 09/145,181 1 September 1998 (01.09.98) US (71) Applicant: GUILFORD PHARMACEUTICALS INC. [US/US]; 6611 Tributary Street, Baltimore, MD 21224 (US). (72) Inventors: LI, Jia-He; 10195-K Woodlake Drive, Cockeysville, MD 21030 (US). ZHANG, Jie; 8513 High Timber Court, Ellicott City, MD 21043 (US). JACKSON, Paul, F.; 102 Glenmore Court, Bel Air, MD 21014 (US). MACLIN, Keith, M.; 5005 Remmell Avenue, Baltimore, MD 21206 (US). (74) Agent: NATH, Gary, M.; Nath & Associates, 6th floor, 1030 15th Street, N.W., Washington, DC 20005 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: POLY(ADP-RIBOSE) POLYMERASE ("PARP") INHIBITORS, METHODS AND PHARMACEUTICAL COMPOSITIONS FOR TREATING NEURAL OR CARDIOVASCULAR TISSUE DAMAGE		
(57) Abstract This invention relates to compounds, pharmaceutical compositions, and methods of using compounds of formula (I), or a pharmaceutically acceptable salt, hydrate, prodrug, or mixtures thereof, wherein: Y is alkylhalo, alkyl-CO-G, COG, a direct bond, C=O, O, NR₁₁, or CR₈; G is NR₁₁R₁₆, OR₉, SR₉, or R₁₀; Z is O, S or NR₁₁; X is NR₁₆, O, S, CR₁₂R₁₃, C=O, a bond, -CR₁₂=CR₁₃-, -C(R₁₂R₁₃)C(R₁₄R₁₅)-, or R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₁₀, R₁₂, R₁₃, R₁₄, or R₁₅, are independently: hydrogen, halo, alkylhalo, hydroxy, C₁-C₉ straight or branched chain alkyl, C₂-C₉ straight or branched chain alkenyl group, C₃-C₈ cycloalkyl, C₅-C₇ cycloalkenyl, aryl, amino, alkylamino, nitro, nitroso, carboxy, or aralkyl; R₉ is hydrogen, hydroxy, C₁-C₉ straight or branched chain alkyl, C₂-C₉ straight or branched chain alkenyl group, C₃-C₈ cycloalkyl, C₅-C₇ cycloalkenyl, aryl, amino, alkylamino, carboxy, or aralkyl; R₁₁ or R₁₆ are independently: hydrogen, halo, alkylhalo, hydroxy, C₁-C₉ straight or branched chain alkyl, C₂-C₉ straight or branched chain alkenyl group, C₃-C₈ cycloalkyl, C₅-C₇ cycloalkenyl, aryl, amino, alkylamino, carboxy, or aralkyl. 		