(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number
WO 03/105666 A2

(51) International Patent Classification[7]: A61B

(21) International Application Number: PCT/US03/18695

(22) International Filing Date: 12 June 2003 (12.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/388,680 12 June 2002 (12.06.2002) US

(71) Applicants *(for all designated States except US)*: **BIOGEN, INC.** [US/US]; 14 Cambridge Center, Cambridge, MA 02142 (US). **THE MCW RESEARCH FOUNDATION, INC.** [US/US]; 8701 Watertown Plank Road, Milwaukee, WI 53226 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **SMITS, Glenn, J.** [US/US]; 8 Lovett Road, Oxford, MS 01540 (US). **JIN, Xiaowei** [US/US]; 16 Remington Street, Cambridge, MA 02138 (US). **GROSS, Garrett, J.** [US/US]; 1320 Fairhaven Blvd., Elm Grove, WI 53122 (US). **AUCHAMPACH, John** [US/US]; 2307 North 80th Street, #1, Wauwatosa, WI 53213 (US).

(74) Agents: **HALEY, James, F.** et al.; Fish & Neave, 1251 Avenue of the Americas, New York, NY 10020 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/105666 A2

(54) Title: METHOD OF TREATING ISCHEMIA REPERFUSION INJURY USING ADENOSINE RECEPTOR ANTAGONISTS

(57) Abstract: Methods useful for preventing, limiting, or treating ischemia reperfusion injury in a mammal are disclosed. More particularly, this invention relates to administering A_{2b} adenosine receptor antagonists to prevent, limit or treat ischemia reperfusion injury.