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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
26 July 2001 (26.07.2001)

PCT

(10) International Publication Number
WO 01/052878 A3

(51) International Patent Classification[7]: A61K 38/17, 38/00, 38/16, A61P 25/00

(21) International Application Number: PCT/US01/02117

(22) International Filing Date: 22 January 2001 (22.01.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

09/487,793	20 January 2000 (20.01.2000)	US
06/209,799	7 June 2000 (07.06.2000)	US
09/620,216	20 July 2000 (20.07.2000)	US

(71) Applicant: **YEDA RESEARCH AND DEVELOPMENT CO. LTD.** [IL/IL]; Weizmann Institute of Science, P.O. Box 95, 76100 Rehovot (IL).

(71) Applicant *(for SD only)*: **MCINNIS, Patricia, A.** [US/US]; Apt. 203, 2325 42nd Street, N.W., Washington, DC 20007 (US).

(72) Inventors: **EISENBACH-SCHWARTZ, Michal**; Rupin Street 5, 76353 Rehovot (IL). **COHEN, Irun, R.**; Hankin Street 11, 76354 Rehovot (IL). **SELA, Michael**; Weizmann Institute of Science, Meonot Wix 2, 76100 Rehovot (IL). **YOLES, Eti**; Moshav Beit Gamliel 94, 76880 D.N. Nahal Sorek (IL). **KIPNIS, Jonathan**; Nahar Hayarden Street 3/1, 71700 Modiin (IL).

(74) Agents: **BROWDY, Roger, L.** et al.; Browdy and Neimark, P.L.L.C., 624 Ninth Street N.W., Suite 300, Washington, DC 20001-5303 (US).

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

(84) Designated States *(regional)*: European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

Published:
— *with international search report*

(88) Date of publication of the international search report:
24 January 2002

(48) Date of publication of this corrected version:
17 October 2002

(15) Information about Correction:
see PCT Gazette No. 42/2002 of 17 October 2002, Section II

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 01/052878 A3

(54) Title: THE USE OF COPOLYMER 1 AND RELATED PEPTIDES AND POLYPEPTIDES AND T CELLS TREATED THEREWITH FOR NEUROPROTECTIVE THERAPY

(57) Abstract: Methods are provided for treating injury to or disease of the central or peripheral nervous system. In one embodiment, treatment is effected by administering activated T cells that recognize an antigen of Cop 1 or a Cop 1-related peptide or polypeptide to promote nerve regeneration or to prevent or inhibit neuronal degeneration within the nervous system. In another embodiment, treatment involves administering Cop 1 or a Cop 1-related peptide or polypeptide to promote nerve regeneration or to prevent or inhibit neuronal degeneration in the nervous system, either the central nervous system or the peripheral nervous system. The activated T cells, which have been activated by the presence of Cop 1 or a Cop 1-related peptide or polypeptide, can be administered alone or in combination with Cop 1 or a Cop 1-related peptide or polypeptide.