



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

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| <b>(51) International Patent Classification <sup>7</sup> :</b><br><br><b>C07C 311/00</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>A2</b> | <b>(11) International Publication Number:</b> <b>WO 00/66546</b><br><br><b>(43) International Publication Date:</b> 9 November 2000 (09.11.00)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>(21) International Application Number:</b> PCT/US00/08734<br><br><b>(22) International Filing Date:</b> 17 April 2000 (17.04.00)<br><br><b>(30) Priority Data:</b><br>60/131,771      30 April 1999 (30.04.99)      US<br>60/177,566      21 January 2000 (21.01.00)      US<br><br><b>(71) Applicant (for all designated States except US):</b> ELI LILLY AND COMPANY [US/US]; Lilly Corporate Center, Indianapolis, IN 46285 (US).<br><br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> BENDER, David, Michael [US/US]; 10543 Fawn Ridge Lane, Indianapolis, IN 46236 (US). CANTRELL, Buddy, Eugene [US/US]; 1206 West 600 South, Fountaintown, IN 46130 (US). FRAY, Andrew, Hendley [US/US]; 6862 Walnut Bend Road, Indianapolis, IN 46254 (US). JONES, Winton, Dennis [US/US]; 1227 East 126th Street, Carmel, IN 46033 (US). MILLER, William, David [US/US]; 7302 Trestle Way Court, Indianapolis, IN 46256 (US). MITCHELL, David [US/US]; 8728 Santana Lane, Indianapolis, IN 46278 (US). SIMON, Richard, Lee [US/US]; 371 Redbud Place, Greenwood, IN 46142 (US). ZARRINMAYEH, Hamideh [US/US]; 924 Sable Run, Carmel, IN 46032 (US). ZIMMERMAN, Den- |           | nis, Michael [US/US]; 10343 Oak Ridge Drive, Zionsville, IN 46077 (US).<br><br><b>(74) Agents:</b> LENTZ, Nelsen, L. et al.; Eli Lilly and Company, Lilly Corporate Center, Indianapolis, IN 46285 (US).<br><br><b>(81) Designated States:</b> AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, 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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, 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).<br><br><b>Published</b><br><i>Without international search report and to be republished upon receipt of that report.</i> |
| <b>(54) Title:</b> MONOFLUOROALKYL DERIVATIVES<br><br><b>(57) Abstract</b><br><br>The present invention provides certain monofluoroalkyl derivatives useful for potentiating glutamate receptor function in a mammal and therefore, useful for treating a wide variety of conditions, such as psychiatric and neurological disorders.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |