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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : **A61K 31/535, C07D 498/06**	**A1**	**(11) International Publication Number:** **WO 99/33469** **(43) International Publication Date:** 8 July 1999 (08.07.99)

(21) International Application Number: PCT/US98/27027

(22) International Filing Date: 16 December 1998 (16.12.98)

(30) Priority Data:
08/998,300 24 December 1997 (24.12.97) US

(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application
US 08/998,300 (CON)
Filed on 24 December 1997 (24.12.97)

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(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, 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
With international search report.

(54) Title: BENZOXAZINE COMPOUNDS FOR ENHANCING SYNAPTIC RESPONSE

(57) Abstract

Compounds having a certain benzoxazine ring system and their precursors are disclosed which are useful for enhancing synaptic responses mediated by AMPA receptors. Also disclosed are methods for preparing such compounds, and methods for their use in treating subjects suffering from impaired nervous or intellectual functioning due to deficiencies in the number of excitatory synapses or in the number of AMPA receptors. The invention compounds can also be used for the treatment of non–impaired subjects for enhancing performance in sensory–motor and cognitive tasks which depend on brain networks utilizing AMPA receptors and for improving memory encoding.