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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 July 2004 (01.07.2004)

PCT

(10) International Publication Number
WO 2004/055026 A1

(51) International Patent Classification[7]: C07D 513/04, A61K 31/425, A61P 25/00 // (C07D 513/04, 275:00, 209:00)

(21) International Application Number:
PCT/IN2003/000393

(22) International Filing Date:
16 December 2003 (16.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
951/MAS/2002 18 December 2002 (18.12.2002) IN

(71) Applicant *(for all designated States except US)*: **SUVEN LIFE SCIENCES LIMITED** [IN/IN]; Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andhra Pradesh (IN).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **RAMAKRISHNA, Venkata, Satya, Nirogi** [IN/IN]; Suven Life Sciences Limited, Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andhra Pradesh (IN). **SHIRSATH, Vikas, Shreekrishna** [IN/IN]; Suven Life Sciences Limited, Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andhra Pradesh (IN). **KAMBHAMPATI, Rama, Sastri** [IN/IN]; Suven Life Sciences Limited, Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andhra Pradesh (IN). **RAO, Venkata, Satya, Veerabhadra, Vadlamudi** [IN/IN]; Suven Life Sciences Limited, Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andhra Pradesh (IN). **JASTI, Venkateswarlu** [IN/IN]; Suven Life Sciences Limited, Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andhra Pradesh (IN).

(74) Agents: **SUBRAMANIAM, Hariharan** et al.; Subramaniam, Nataraj & Associates, Patent & Trademarks Attorneys, E-556, Greater Kailash-II, New Dehli 110 048 (IN).

(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, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (BW, 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:
— *with international search 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 2004/055026 A1

(54) Title: TETRACYCLIC 3-SUBSTITUTED INDOLES HAVING SEROTONIN RECEPTOR AFFINITY

(57) Abstract: The present invention relates to novel substituted tetracyclic 3-substituted indoles, represented by general formula (I), its stereoisomers, its radioisotopes, its N-oxides, its polymorphs, its pharmaceutically acceptable salts, its pharmaceutically acceptable solvates, its useful bio-active metabolites and any suitable combination of the above as well as processes for preparing such compounds of the general formula (I), its stereoisomers, its radioisotopes, its N-oxides, its polymorphs, its pharmaceutically acceptable salts, its pharmaceutically acceptable solvates, its useful bio-active metabolites and also includes any suitable combination of the above.