



- (51) International Patent Classification:
A61K 31/40 (2006.01) *A61K 38/00* (2006.01)
- (21) International Application Number:
PCT/US2013/023196
- (22) International Filing Date:
25 January 2013 (25.01.2013)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/591,009 26 January 2012 (26.01.2012) US
- (71) Applicants: UNIVERSITY OF CINCINNATI [US/US]; Office of Entrepreneurial Affairs, and Technology Commercialization, 51 Goodman Drive, Suite 240, Cincinnati, Ohio 45219-0829 (US). WISCONSIN ALUMNI RESEARCH FOUNDATION [US/US]; 614 Walnut Street, 13th Floor, Madison, Wisconsin 53726 (US).
- (72) Inventors: HORSEMAN, Nelson; 51 Goodman Drive, Suite 240, Cincinnati, Ohio 45219-0829 (US). BAUMGARD, Laura Hernandez; 614 Walnut Street, 13th Floor, Madison, Wisconsin 53726 (US).
- (74) Agent: JENEI, Stephen R; Jenei LLC, 8044 Montgomery Road, Suite 700, Cincinnati, OH 45236 (US).

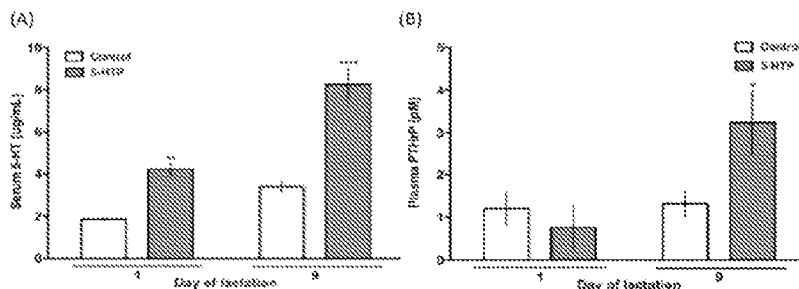
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

- (88) Date of publication of the international search report:
18 June 2015

(54) Title: COMPOSITIONS AND METHODS FOR IMPROVING LACTATION



(57) Abstract: The present disclosure relates to the use of pharmaceutical agents to manipulate serotonin in animal mammary glands. Use of the serotonin agents results in increased PTHrP levels, resulting in the release of calcium from the bone, which improves lactation.

WO 2013/112873 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 13/23196

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61K 31/40, A61K 38/00 (2013.02) USPC - 514/419, 514/1.1 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC(8) - A61K 31/40, A61K 38/00 (2013.02) USPC - 514/419, 514/1.1 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST; PatBase; Google Scholar search terms: 5-HT, 5-hydroxytryptamine, serotonin\$, 5-hydroxy-tryptamine, agoni\$, enhanc\$, increas\$, inhib\$, degrad\$, precursor, upregula\$, reuptak\$, 5-HTP, 5HTP, 5-hydroxytryptophan, oxitriptan, 5-hydroxy-tryptophan, hypocalcem\$, calcium, lactating, lactation,		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2007/0292493 A1 (BRIERRE B.) 20 December 2007 (20.12.2007) abstract; para [0007]; [0012]; [0025]-[0029]; [0034]; [0129]; [0134]; [0135]; [0146]; [0147].	1-25
Y	US 2008/0132445 A1 (ORMANDY et al.) 05 June 2008 (05.06.2008) abstract; para [0001]; [0042]-[0048]; [0128]; [0129]; [0154].	1-18, 22-25
Y	US 2005/0147695 A1 (JORGENSEN R.) 07 July 2005 (07.07.2005) abstract; para [0016]-[0017].	19-21
Y	US 2004/0161449 A1 (SMOTHERS D.) 19 August 2004 (19.08.2004) para [0015]; claim 1.	8, 9
Y	US 2003/0171255 A1 (GREENGARD et al.) 11 September 2003 (11.09.2003) abstract; para [0021]; [0022]; [0058]; [0234]; [0323].	12
Y	Cox et al., Activated 3',5'-Cyclic AMP-dependent Protein Kinase Is Sufficient to Induce Neuroendocrine-like Differentiation of the LNCaP Prostate Tumor Cell Line. THE JOURNAL OF BIOLOGICAL CHEMISTRY Vol. 275, No. 18, Issue of May 5, pp. 13812-13818, 2000. p. 13812, col 2, 2nd para.	21
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Date of the actual completion of the international search 04 March 2013 (04.03.2013)		Date of mailing of the international search report 07 APR 2013
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774