

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification: C12N 1/38, 5/06, 5/16, 5/22, C07K 14/78		A1	(11) International Publication Number: WO 99/53021
			(43) International Publication Date: 21 October 1999 (21.10.99)
(21) International Application Number: PCT/AU99/00265 (22) International Filing Date: 9 April 1999 (09.04.99) (30) Priority Data: PP 2912 9 April 1998 (09.04.98) AU PP 6097 23 September 1998 (23.09.98) AU (71) Applicant (for all designated States except US): BRESAGEN LIMITED [AU/AU]; 38-39 Winwood Street, Thebarton, S.A. 5031 (AU). (72) Inventors; and (75) Inventors/Applicants (for US only): BETTESS, Michael, David [AU/AU]; 3 Windarra Court, Belair, S.A. 5052 (AU). RATHJEN, Peter, David [AU/AU]; (AU). RATHJEN, Joy [GB/AU]; 1 Mimosa Avenue, Blackwood, S.A. 5051 (AU). (74) Agents: TULLOCH, Debra et al.; Frechills Patent Attorneys, Level 47, 101 Collins Street, Melbourne, VIC 3000 (AU).		(81) Designated States: AE, 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, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, 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: CELL DIFFERENTIATION/PROLIFERATION AND MAINTENANCE FACTOR AND USES THEREOF (57) Abstract The present invention relates to a biologically active factor capable of influencing differentiation, proliferation and/or maintenance of pluripotent cells. The present invention also relates to methods of using the biologically active factor to produce from pluripotent cells, pluripotent cells having different properties, more particularly EPL cells; and to methods of producing partially or terminally differentiated cells from the pluripotent cells. The present invention also relates to pluripotent cells and partially or terminally differentiated cells, and their uses in human cell and gene therapy, and transgenic animal production.			