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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 June 2007 (21.06.2007)

PCT

(10) International Publication Number
WO 2007/068997 A3

(51) International Patent Classification:
C12N 1/00 (2006.01) *C12P 7/64* (2006.01)
C11C 1/04 (2006.01)

(21) International Application Number:
PCT/IB2005/003934

(22) International Filing Date:
16 December 2005 (16.12.2005)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant *(for all designated States except US)*: **AVESTHA GENGRAINE TECHNOLOGIES PVT.LTD.** [IN/IN]; Discoverer, 9th floor, Unit 3, International Tech park,, Whitefield Road, Bangalore - 560 066, Karnataka (IN).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **PATELL, Villo, Morawala** [IN/IN]; Avestha Gengraine Technologies Pvt.Ltd., "Discoverer", 9th Floor, Unit 3, International Tech Park, Whitefield Road, Bangalore - 560066 , Karnataka (IN). **RAJYASHRI, K., R.** [IN/IN]; Director-Research Process Outsourcing, Avestha Gengraine Technologies Pvt.Ltd, 9th Floor, International Tech Park, Whitefield Road, Bangalore 560066, Karnataka (IN).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:
— *of inventorship (Rule 4.17(iv))*

Published:
— *with international search report*

(88) Date of publication of the international search report:
16 August 2007

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 2007/068997 A3

(54) Title: DOCOSAHEXAENOIC ACID (DHA) PRODUCING THRAUSTOCHYTRID STRAIN - SC1

(57) Abstract: The invention relates to the screening of an unreported strain of thraustochytrid - SC1 producing significant amounts of Docosahexaenoic acid (DHA) and also accumulate their respective intermediate fatty acids in addition to DHA. This organism has been isolated from the backwaters of Goa by Pollen Baiting method. The fatty acid profile and the 18S ribosomal sequences of each of this organism has been disclosed indicating its molecular phylogeny. The organism on further study can be very significant for their utilization in the commercial production of DHA.