

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
22 June 2006 (22.06.2006)

PCT

(10) International Publication Number  
**WO 2006/066051 A3**

(51) International Patent Classification:  
**G06F 17/10** (2006.01) **G06F 7/60** (2006.01)

(21) International Application Number:  
PCT/US2005/045520

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

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/637,106 16 December 2004 (16.12.2004) US

(71) Applicant (for all designated States except US): **ENTELOS, INC.** [US/US]; 110 Marsh Drive, Foster City, California 94404 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BALGI, Ganesh** [IN/US]; 20249 Northwest Square, Cupertino, California 95014 (US). **KADAMBI, Ananth** [US/US]; 480 Pointe Pacific #1, Daly City, California 94014 (US). **PATERSON, Thomas, S.** [US/US]; 2219 Graham Ave., Redondo Beach, California 90278 (US).

(74) Agent: **FLICK, Karen, E.**; Foley & Lardner LLP, 1530 Page Mill Road, Palo Alto, CA 94304-1125 (US).

(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).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
10 August 2006

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.

(54) Title: METHODS AND MODELS FOR CHOLESTEROL METABOLISM

(57) Abstract: The invention encompasses novel methods for developing a computer model of cholesterol metabolism in an animal. In particular, the models include representations of biological processes associated with both lipid flux and lipoprotein particles. The invention also encompasses computer models of cholesterol metabolism, methods of simulating cholesterol metabolism and computer systems for simulating cholesterol metabolism.



WO 2006/066051 A3