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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 July 2011 (21.07.2011)

PCT

(10) International Publication Number
WO 2011/088123 A2

(51) International Patent Classification:
A61K 38/17 (2006.01)

(21) International Application Number:
PCT/US2011/020994

(22) International Filing Date:
12 January 2011 (12.01.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

61/294,270	12 January 2010 (12.01.2010)	US
61/393,675	15 October 2010 (15.10.2010)	US
61/424,408	17 December 2010 (17.12.2010)	US

(71) Applicant *(for all designated States except US)*: **ONCOMED PHARMACEUTICALS, INC.** [US/US]; 800 Chesapeake Drive, Redwood City, CA 94063-4748 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **SATYAL, Sanjeev, H.** [IN/US]; 965 Buckland Avenue, San Carlos, CA 94070 (US). **MITRA, Satyajit, Sujit, Kumar** [IN/US]; 75 Duane Street, Apt. 17, Redwood City, CA 94062 (US). **GURNEY, Austin, L.** [US/US]; 946 Diamond Street, San Francisco, CA 94114 (US).

(74) Agents: **MCCABE, Kevin, W.** et al.; Sterne, Kessler, Goldstein & Fox, P.L.L.C, 1100 New York Avenue, NW, Washington, DC 20005-3934 (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, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

WO 2011/088123 A2

(54) **Title**: WNT ANTAGONISTS AND METHODS OF TREATMENT AND SCREENING

(57) **Abstract**: The present invention relates to compositions comprising Wnt antagonists and methods of treating Wnt-associated diseases and disorders, such as cancer, inducing differentiation, and reducing the frequency of cancer stem cells, as well as novel methods of screening for such Wnt antagonists. In particular, the invention discloses soluble FZD, SFRP and Ror receptors and their use.