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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
2 February 2006 (02.02.2006)

PCT

(10) International Publication Number
WO 2006/010558 A1

(51) International Patent Classification[7]: C07K 14/705, C12N 5/06

(21) International Application Number: PCT/EP2005/007957

(22) International Filing Date: 21 July 2005 (21.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04017907.9 29 July 2004 (29.07.2004) EP

(71) Applicant *(for all designated States except US)*: **DOMPE' S.P.A.** [IT/IT]; Via Compo di Pile, I-67100 L'Aquila (IT).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **GIANNI, Alessandro, M.** [IT/IT]; Via Venezian, 1, I-20133 Milano (IT). **CARLO-STELLA, Carmelo** [IT/IT]; Via Venezian, 1, I-20133 Milano (IT). **COLOTTA, Francesco** [IT/IT]; Via Campo di Pile, I-67100 L'Aquila (IT).

(74) Agents: **MINOJA, Fabrizio.** et al.; Bianchetti Bracco Minoja S.r.L., Via Plinio, 63, I-20129 Milano (IT).

(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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, 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.

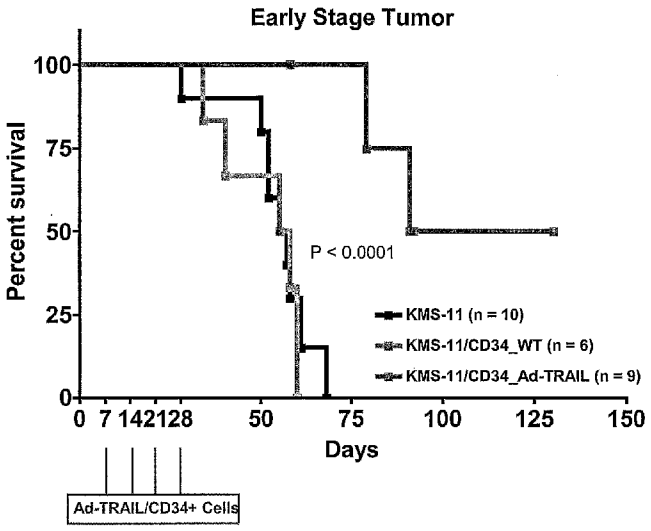
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, 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*

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:** TUMOR-HOMING CELLS ENGINEERED TO PRODUCE TUMOR NECROSIS FACTOR-RELATED APOPTOSIS-INDUCING LIGAND (TRAIL)

- Effect of Ad-TRAIL/CD34+ cells on survival of NOD/SCID mice with early stage KMS-11 xenograft



(57) **Abstract:** The invention refers to tumor-homing cells expressing the tumor necrosis factor-related apoptosis inducing ligand (TRIAL), particularly to CD34+ and NK cells transduced with adenoviral vectors coding for TRIAL. The cells of the invention are useful for the intravenous treatment of tumors, particularly of lymphoma.

WO 2006/010558 A1