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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 January 2003 (03.01.2003)

PCT

(10) International Publication Number
WO 03/000023 A3

(51) International Patent Classification[7]: A61K 31/59

(21) International Application Number: PCT/US02/20475

(22) International Filing Date: 26 June 2002 (26.06.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/891,814 26 June 2001 (26.06.2001) US

(71) Applicant: **BONE CARE INTERNATIONAL, INC.** [US/US]; 1600 Aspen Commons, Middleton, WI 53562 (US).

(72) Inventors: **BISHOP, Charles, W.**; 8550 Bakken Road, Mt. Horeb WI 53572 (US). **MAZESS, Richard, B.**; 3534 Blackhawk Drive, Madison, WI 53705 (US).

(74) Agents: **WELCH, Teresa, J.** et al.; Michael Best & Friedrich LLP, Suite 700, One South Pinckney Street, P.O. Box 1806, Madison, WI 53701-1806 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

(88) Date of publication of the international search report:
31 July 2003

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 03/000023 A3

(54) Title: METHOD OF TREATING HYPERPROLIFERATIVE DISEASES USING ACTIVE VITAMIN D ANALOGUES

(57) Abstract: Methods for the utilization of hypocalcemic vitamin D analogy to inhibit the hyperproliferation of malignant or neoplastic cells without incidence of hypercalcemia.