20000047 9-6

IPOS's copy

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61K 31/70

A1

(11) International Publication Number: WO 99/07383

(43) International Publication Date: 18 February 1999 (18.02.99)

(21) International Application Number: PCT/CA98/00744

(22) International Filing Date: 5 August 1998 (05.08.98)

(30) Priority Data:

1) 60/054,777 5 August 1997 (05.08.97) US
2) 60/075,067 18 February 1998 (18.02.98) US
3) 60/075,111 18 February 1998 (18.02.98) US
4) 60/086,317 21 May 1998 (21.05.98) US

(71) Applicant: BIONICHE INC. [CA/CA]; 383 Sovereign Road, London, Ontario N6M 1A3 (CA).

(72) Inventors: PHILLIPS, Nigel, C.; 101 Seigniory Avenue, Pointe-Claire, Quebec H9R 1J6 (CA). FILION, Mario, C.; 6651 Louis-Hebert, Montreal, Quebec H2G 2G8 (CA).

(74) Agent: CAMPBELL, Hugh, D.; Finlayson & Singlehurst, 70 Gloucester Street, Ottawa, Ontario K2P OA2 (CA).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

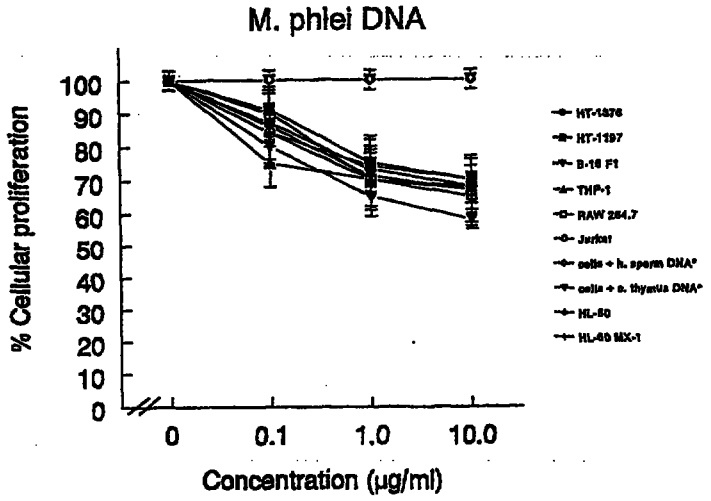
Published

With international search report.

Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

1 appln.
2 Invs

(54) Title: COMPOSITION AND METHOD FOR REGULATING CELL PROLIFERATION AND CELL DEATH



(57) Abstract

The present invention relates to a composition and method useful for regulating cell proliferation and cell death in a multicellular organism. The present invention particularly relates to a composition comprising a bacterial DNA (B-DNA) and a first pharmaceutically acceptable carrier, wherein the B-DNA induces a response in responsive cells of an animal. The present invention more particularly relates to a composition comprising a mycobacterial DNA (M-DNA) and a first pharmaceutically acceptable carrier, wherein the M-DNA inhibits proliferation of responsive cells of an animal, induces apoptosis in responsive cells of an animal, and stimulattes responsive cells of the immune system of an animal to produce bioactive molecules. Methods of making the M-DNA composition and methods of using the M-DNA composition also are disclosed.