

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 December 2008 (04.12.2008)

(10) International Publication Number
WO 2008/147551 A8

PCT

(51) **International Patent Classification:**
A61K 31/44 (2006.01)

(21) **International Application Number:**
PCT/US2008/006667

(22) **International Filing Date:**
23 May 2008 (23.05.2008)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
60/93 1,771 25 May 2007 (25.05.2007) US

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(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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG,
SK, SL, SM, SV, SY, 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, 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, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MT, NL, NO, 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 (Art. 21(3))

(48) **Date of publication of this corrected version:**

7 January 2010

(15) **Information about Correction:**

see Notice of 7 January 2010

(54) **Title:** METHODS AND COMPOSITIONS FOR STIMULATING CELLS

(57) **Abstract:** The invention provides compositions and methods for treating, preventing, delaying the onset, and/or delaying the development of a disease or condition for which the activation, differentiation, and/or proliferation of one or more cell types is beneficial. These compositions and methods include, for example, a hydrogenated pyrido [4,3 -b] indole such as dimebon and/or a cell that has been incubated with a hydrogenated pyrido [4,3 -b] indole such as dimebon. In some embodiments, the compositions and methods also include a growth factor and/or an anti-cell death compound. The invention also provides methods of activating a cell, promoting the differentiation of a cell, and/or promoting the proliferation of a cell by incubating the cell with one or more hydrogenated pyrido [4,3 -b] indoles or pharmaceutically acceptable salts thereof. In some embodiments, the cell is also incubated with one or more growth factors and/or anti-cell death compounds.



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