

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
15 November 2018 (15.11.2018)



(10) International Publication Number
WO 2018/209202 A1

(51) International Patent Classification:

A61K 36/287 (2006.01) A61Q 19/02 (2006.01)
A61K 8/97 (2017.01)

(21) International Application Number:

PCT/US2018/032273

(22) International Filing Date:

11 May 2018 (11.05.2018)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/505,494 12 May 2017 (12.05.2017) US

(71) Applicant: **HMI, INC.**; Harbour Center, 4th Floor, P.O.
Box 613, Grand Cayman, KY1-71107 (KY).

(72) Inventors: **BALASH, Monica, Elizabeth**; 32273 Chester-
brook, Farmington Hills, MI 48334 (US). **HOUSEY, Ger-
ard, M.**; 28520 Streamwood Lane, Southfield, MI 48034
(US).

(74) Agent: **PROVENCE, David L.**; Muetting, Raasch & Geb-
hardt, P.A., P.O. Box 581336, Minneapolis, Minnesota
55458-1336 (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, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
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, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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,
KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: PLANT EXTRACTS WITH ANTI-DIABETIC AND OTHER USEFUL ACTIVITIES

(57) Abstract: This invention relates to plant extracts containing nutritionally beneficial or medicinally active compounds. Some of these extracts, or the purified compounds contained therein, may be used for the nutritional support, prevention, treatment, or possible cure of various metabolic and other diseases and disorders in human beings and animals, including type 1 and type 2 diabetes, by regulating insulin signaling. This regulatory effect may include modulations of the levels and/or activity of the Insulin Receptor (IR), the Insulin-like Growth Factor (IGF) Receptor, and/or the Insulin Receptor Substrate (IRS) proteins in cells and tissues in the body.



WO 2018/209202 A1