



(51) International Patent Classification:

C12N 1/19 (2006.01) C12N 9/10 (2006.01)
C12N 9/06 (2006.01) C12P 19/18 (2006.01)
C12N 9/90 (2006.01) C12P 19/56 (2006.01)
C12N 9/02 (2006.01) C12P 33/00 (2006.01)
C12N 9/14 (2006.01)

(21) International Application Number:

PCT/EP2015/072645

(22) International Filing Date:

30 September 2015 (30.09.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

14/504,109	1 October 2014 (01.10.2014)	US
62/059,136	2 October 2014 (02.10.2014)	US
62/087,726	4 December 2014 (04.12.2014)	US
62/090,836	11 December 2014 (11.12.2014)	US
62/091,895	15 December 2014 (15.12.2014)	US
62/199,115	30 July 2015 (30.07.2015)	US

(71) Applicant: EVOLVA SA [CH/CH]; Duggingerstrasse 23, 4153 Reinach (CH).

(72) Inventors: HOUGHTON-LARSEN, Jens; Grndalsvej 13, DK-3460 Birkerød (DK). KRZYSTANEK, Katarzyna; Duggingerstrasse 23, CH-4153 Reinach (CH). SEMMLER, Angelika; Ernie Wilkins Vej 7, 1. Tv, DK-2450 Copenhagen (DK). HANSEN, Iver Klavs Riishede; Graekenlansvej 88B St, DK-2300 Copenhagen (DK). DAMKIAER, Søren; Duggingerstrasse 23, CH-4153 Reinach (CH). LIU, Gary; Duggingerstrasse 23, CH-4153 Reinach (CH). LIU, Yaoquan; 2440 Embarcadero Way, Palo Alto, California 94303 (US). HANSEN, Jørgen; Peter Bangs vej 122, 1th, DK-2000 Frederiksberg (DK). KUMAR, Sathish; No 73, Arumbuliyur, Orakatpet, Tamil Nadu 603106 (IN). MURALI, Muthuswamy Pancha-

pagesa; 401-405 Ticel Bio Park Ltd, Taramani, Chennai 60013 (IN). RASMUSSEN, Nina Nicoline; Glimvej 29, DK-2650 Hvidovre (DK).

(74) Agent: SMAGGASGALE, Gillian Helen; 55 Drury Lane, London WC2B 5SQ (GB).

(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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, 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:

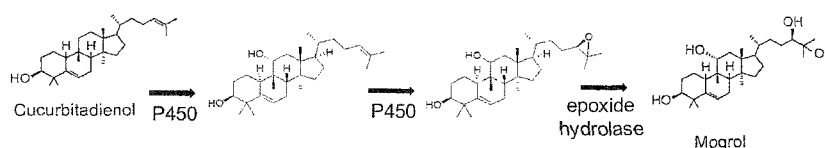
- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- with sequence listing part of description (Rule 5.2(a))

(88) Date of publication of the international search report:

30 June 2016

(54) Title: METHODS AND MATERIALS FOR BIOSYNTHESIS OF MOGROSIDE COMPOUNDS

Figure 3A



(Disclosed herein)

(57) Abstract: Methods for recombinant and enzymatic production of mogroside compounds and compositions containing mogroside compounds are provided by this invention.