

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

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 November 2015 (12.11.2015)

(10) International Publication Number
WO 2015/172123 A1

(51) International Patent Classification:

C07D 487/14 (2006.01) A61P 35/00 (2006.01)
A61K 31/4353 (2006.01)

(21) International Application Number:

PCT/US2015/030046

(22) International Filing Date:

9 May 2015 (09.05.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/991,282	9 May 2014 (09.05.2014)	US
62/050,202	15 September 2014 (15.09.2014)	US
62/054,054	23 September 2014 (23.09.2014)	US
62/128,208	4 March 2015 (04.03.2015)	US

(72) Inventor; and

(71) Applicant : HADDACH, Mustapha [US/US]; 3210
Merryfield Row, San Diego, CA 92121 (US).

(74) Agent: HADDACH, Aubrey; Venable LLP, P.O. Box
34385, Washington, District of Columbia 20043-9998
(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, 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))

(54) Title: NOVEL COMPOSITIONS, USES AND METHODS FOR MAKING THEM

(57) Abstract: Generally, the present invention provides novel quinolone compounds and pharmaceutical composition thereof which may inhibit cell proliferation and/or induce cell apoptosis. The present invention also provides methods of preparing such compounds and compositions, and methods of making and using the same.



WO 2015/172123 A1

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

HADDACH, Aubrey
Venable LLP
P.O. Box 34385
Washington, District of Columbia 20043-9998
ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year) 20 October 2016 (20.10.2016)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 130864-386700	
International application No. PCT/US2015/030046	International filing date (day/month/year) 09 May 2015 (09.05.2015)

1. The following indications appeared on record concerning:		
☐ the applicant	☐ the inventor	☐ the agent
☐ the common representative		
Name and Address	State of Nationality	State of Residence
	Telephone No.	
	Facsimile No.	
	E-mail address	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
☒ the person	☐ the name	☐ the address
☐ the nationality		
☐ the residence		
Name and Address PIMERA, INC. 3210 Merryfield Row San Diego, California 92121 United States of America	State of Nationality US	State of Residence US
	Telephone No.	
	Facsimile No.	
	E-mail address ☐ Notifications by e-mail authorized	
3. Further observations, if necessary: The person identified in Box 2 has been added as applicant for all designated States.		
4. A copy of this notification has been sent to:		
☒ the receiving Office	☐ the International Preliminary Examining Authority	
☐ the International Searching Authority	☒ the designated Offices concerned	
☐ the Authority(ies) specified for supplementary search	☐ the elected Offices concerned	
	☐ other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Mondon Catherine e-mail pt06.pct@wipo.int Telephone No. +41 22 338 74 06
Facsimile No. +41 22 338 89 70	

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

HADDACH, Aubrey
Venable LLP
P.O. Box 34385
Washington, District of Columbia 20043-9998
ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year) 20 October 2016 (20.10.2016)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 130864-386700	
International application No. PCT/US2015/030046	International filing date (day/month/year) 09 May 2015 (09.05.2015)

1. The following indications appeared on record concerning: ☐ the applicant ☒ the inventor ☐ the agent ☐ the common representative		
Name and Address HADDACH, Mustapha 3210 Merryfield Row San Diego, CA 92121 United States of America	State of Nationality US	State of Residence US
	Telephone No.	
	Facsimile No.	
	E-mail address aubrey@thehaddachlawoffice.com	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: ☐ the person ☐ the name ☐ the address ☐ the nationality ☐ the residence		
Name and Address See Box 3.	State of Nationality	State of Residence
	Telephone No.	
	Facsimile No.	
	E-mail address aubrey@thehaddachlawoffice.com ☐ Notifications by e-mail authorized	
3. Further observations, if necessary: The person identified in Box 1 is now inventor only.		
4. A copy of this notification has been sent to: ☒ the receiving Office ☐ the International Preliminary Examining Authority ☐ the International Searching Authority ☒ the designated Offices concerned ☐ the Authority(ies) specified for supplementary search ☐ the elected Offices concerned ☐ other:		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Mondon Catherine e-mail pt06.pct@wipo.int Telephone No. +41 22 338 74 06
---	--

Facsimile No. +41 22 338 89 70