PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4001019

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
ALFONSO ZAMBON	12/11/2014
DAN NICULESCU-DUVAZ	12/11/2014
RICHARD CHUBB	01/22/2015
CAROLINE JOY SPRINGER	12/10/2014

RECEIVING PARTY DATA

Name:	CANCER RESEARCH TECHNOLOGY LIMITED	
Street Address:	407 ST. JOHN STREET	
Internal Address:	ANGEL BUILDING	
City:	LONDON	
State/Country:	UNITED KINGDOM	
Postal Code:	EC1V 4AD	
Name:	OXY SCIENTIFIC LIMITED	
Street Address:	SUNDERLAND ENTERPRISE PARK EAST	
Internal Address:	UNITS 97 & 98 SILVERBRIARI, TYNE AND WEAR	
City:	SUNDERLAND	
State/Country:	UNITED KINGDOM	
Postal Code:	SR5 2TQ	
Name:	INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL (THE)	
Street Address:	123 OLD BROMPTON ROAD	
Internal Address:	LONDON	
City:	GREATER LONDON	
State/Country:	UNITED KINGDOM	
Postal Code:	SW7 3RP	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15038337

CORRESPONDENCE DATA

Fax Number: (973)596-0545

PATENT REEL: 039719 FRAME: 0428

503954363

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 9735964500

Email: IPDocket@gibbonslaw.com
Correspondent Name: SAMUEL H. MEGERDITCHIAN
Address Line 1: ONE GATEWAY CENTER

Address Line 4: NEWARK, NEW JERSEY 07102-5310

ATTORNEY DOCKET NUMBER:	104610-92916-P1111USPC00	
NAME OF SUBMITTER:	SAMUEL H. MEGERDITCHIAN	
SIGNATURE:	/SAMUEL H. MEGERDITCHIAN/	
DATE SIGNED:	08/10/2016	

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PATENT REEL: 039719 FRAME: 0429



ASSIGNMENT OF INVENTION AND RELATED INTELLECTUAL PROPERTY RIGHTS

Parties:

1 'The inventors'

ALFONSO ZAMBON

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

DAN NICULESCU-DUVAZ

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

RICHARD CHUBB

of: Onyx Scientific Limited, Units 97 & 98 Silverbriar, Sunderland Enterprise Park East, Sunderland, Tyne and Wear, SR5 2TQ, United Kingdom.

CAROLINE JOY SPRINGER

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

2 'Onyx'

ONYX SCIENTIFIC LIMITED

of: Units 97 & 98 Silverbriar, Sunderland Enterprise Park East, Sunderland, Tyne and Wear, SR5 2TQ, United Kingdom. (Company No. 03947634, incorporated under the laws of England & Wales)

3 'CRT'

CANCER RESEARCH TECHNOLOGY LIMITED

of: Angel Building, 407 St John Street, London, Greater London, EC1V 4AD, United Kingdom. (Company No. 01626049, incorporated under the laws of England & Wales)

4 'The ICR'

INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL (THE) of: 123 Old Brompton Road, London, Greater London, SW7 3RP, United Kingdom.
(Company No. 00534147, incorporated under the laws of England & Wales)

B

REEL: 039719 FRAME: 0430

Recitals:

- (A) The Inventors are the joint inventors of the invention or inventions entitled "Methods of chemical synthesis" and "Methods for chemical synthesis of 8-(4-aminophenoxy-4H-pyrido[2,3-b]pyrazin-3-one and related compounds" (hereinafter referred to as "The Invention") for which United Kingdom (GB) patent application number 1320732.9 (hereinafter referred to as "The Priority Application") and International (PCT) patent application number PCT/GB2014/053489 (hereinafter referred to as "The PCT Application"), as set out in the Schedule hereto, have been filed. (The Priority Application and The PCT Application together with any subsequent applications being hereinafter referred to collectively as "The Patent Applications".)
- (B) The Priority Application and the PCT Application were filed in the names of CRT and The ICR.
- (C) The Inventors, Onyx, CRT, and The ICR variously agreed before The Priority Application was filed that CRT and The ICR would be the joint owners of The Invention and The Patent Applications.
- (D) In pursuance of that agreement, The Inventors, Onyx, CRT, and The ICR have agreed to execute this Assignment in order to confirm and ensure that all rights, title and interest worldwide in, to, under and arising from The Invention and The Patent Applications belong jointly to CRT and The ICR.
- (E) Inventors ZAMBON, NICULESCU-DUVAZ, and SPRINGER were at all material times employed by The ICR to carry out the research from which their contribution to The Invention and The Patent Applications arose.
- (F) Inventor ZAMBON, NICULESCU-DUVAZ, and SPRINGER have agreed to execute this Assignment in order to confirm and ensure that, as between them and their employer (The ICR), their contribution to The Invention and all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications belongs to their employer (The ICR).
- (G) Inventor CHUBB was at all material times employed by Onyx to carry out the research from which his contribution to The Invention and The Patent Applications arose.
- (H) Inventor CHUBB has agreed to execute this Assignment in order to confirm and ensure that, as between him and his employer (Onyx), his contribution to The Invention and The Patent Applications belongs to his employer (Onyx).
- (I) Onyx was at all material times under contract with The ICR to carry out the research from which the contribution of their employee (inventor CHUBB) to The Invention and The Patent Applications arose.
- (J) Onyx has agreed to execute this Assignment in order to confirm and ensure that, as between them and The ICR, all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications belong to The ICR.
- (K) The ICR has agreed to execute this Assignment in order to confirm and ensure that, as between them and CRT, all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications are shared equally with CRT.

В

Operative provisions:

- In consideration for the payment of £1.00 by The ICR to each of inventors ZAMBON, NICULESCU-DUVAZ, and SPRINGER (the receipt and adequacy of which are hereby acknowledged), and to the extent that they have not already done so, those inventors hereby sell and assign to The ICR absolutely and free from incumbrances all their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by Onyx to inventor CHUBB (the receipt and adequacy of which are hereby acknowledged), and to the extent that he has not already done so, that inventor hereby sells and assigns to Onyx absolutely and free from incumbrances all his rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by The ICR to Onyx (the receipt and adequacy of which are hereby acknowledged), and to the extent that it has not already done so, Onyx hereby sells and assigns to The ICR absolutely and free from incumbrances all their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by CRT to The ICR (the receipt and adequacy of which are hereby acknowledged), and to the extent that it has not already done so, The ICR hereby sells and assigns to CRT absolutely and free from incumbrances a one-half share of their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- The rights sold and assigned in clauses 1 through 4 above are all rights title and interest in, to, under, and arising from The Invention and The Patent Applications, including:
 - from The Invention; The Patent Applications; and all patent applications derived therefrom and any and all patent applications linked by priority thereto and any and all divisionals, continuations and continuations-in-part of any of the aforesaid patent applications and any and all patents that may be granted pursuant thereto for the full period thereof including any re-issues, re-examinations, renewals, extensions and Supplementary Protection Certificates and including all rights and powers arising or accrued therefrom including the right to sue for damages and other remedies in respect of any infringement of any such rights before on or after the date hereof;
 - 5.2 all such rights to apply for prosecute and obtain patents and other intellectual property protection anywhere in the world in respect of The Invention to the intent that the grant of any patents or other intellectual property protection for The Invention shall be in the name of and shall vest in CRT and The ICR or their successors or assigns; and
 - 5.3 all such rights to claim priority from one or more or all of The Patent Applications in any and all subsequent applications for protection for The Invention, such rights to be enjoyed by CRT and The ICR with effect from the dates of filing of The Patent Applications, respectively;

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to the intent that CRT and The ICR shall have and hold the rights title and interest hereby assigned as fully and entirely as the same would have been held and enjoyed by The Inventors, Onyx, and The ICR had this Assignment not been made.

- The Inventors, Onyx, CRT, and The ICR hereby GRANT the firm of Mewburn Ellis LLP the power to insert in the Schedule to this Assignment any further identification of any future patent applications in Canada or the United States or any other countries or regions of the world which fall within the scope of clauses 1 to 5 above, as may be necessary or desirable in order to comply with the rules of the United States Patent Office or the Canadian Patent Office or any other intellectual property office for recordation of this document.
- The Inventors, Onyx, CRT, and The ICR hereby UNDERTAKE that at the request and cost of CRT and The ICR or their successors or assigns they will at all times hereafter promptly do all such acts and execute all such documents (including but not limited to documents required to be signed by or on behalf of inventors in the course of any and all patent applications which relate to The Invention) as may be reasonably necessary or desirable to secure the vesting in CRT and The ICR or their successors or assigns of all rights title and interest assigned to CRT and The ICR hereunder and to confirm the title of CRT and The ICR or their successors or assigns to all such rights title and interest and to assist in the resolution of any question concerning The Invention or any application for patent or other intellectual property protection for The Invention or any intellectual property protection granted pursuant to any such application.
- The Inventors, Onyx, CRT, and The ICR hereby request the relevant authorities in all countries of the world to issue any patents granted for The Invention in the name of CRT and The ICR or their successors or assigns in accordance with this Assignment.
- This Assignment and undertaking shall be binding upon the heirs, executors, administrators, successors and/or assigns of each of Inventors, Onyx, CRT, and The ICR and shall enure to the benefit of any heirs, executors, administrators, successors and/or assigns of CRT and The ICR.
- This agreement shall be governed by and interpreted in accordance with the laws of England, and the courts of England shall have exclusive jurisdiction to settle any disputes which may arise in connection with this agreement.

IN WITNESS WHEREOF the parties hereto have executed this Assignment and undertaking:

В

- Page 5 of 8 -

SCHEDULE

Mewburn Ellis LLP REFERENCE NO.	COUNTRY	APPLICATION NUMBER	FILING DATE
6943120	GB	1320732.9	25 November 2013 (25.11.2013)
7068414	wo	PCT/GB2014/053489	25 November 2014 (25.11.2014)

B

WJW/LP7068414 CJS-Synthesis-PCT Assignment GB 1320732.9 & PCT/GB2014/053489

PATENT REEL: 039719 FRAME: 0434

SIGNED by ALFONSO ZAMBON at (city, country): 1.00000
in the presence of: Witness Signature: Name: b. balene Address: Si 600x 60 Month Criz 15 Un Occupation: (B.100 MAR SIENII)
SIGNED by DAN NICULESCU-DUVAZ at (city, country): London, Uik on (date): 11122.2.14
SIGNED by RICHARD CHUBB at (city, country):
in the presence of: Witness Signature: Name: Address: Occupation:

WJW/LP7068414 CJS-Synthesis-PCT B

SIGNED by CAROLINE JOY SPRINGER at (city, country): JONDOIV, U.K.) on (date): O.J. J. J. Signature: J.
SIGNED for and on behalf of ONYX SCIENTIFIC LIMITED at (city, country): on (date):) Signature: Name: Position:
in the presence of: Witness
Signature:
Name:
Occupation:
SIGNED for and on behalf of INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL (THE) at (city, country): on (date): Signature: Name: ANGELA KUKULA Position: DIRECTOR OF ENTERPRISE
in the presence of:
Witness Signature:
Name:
Address: Occupation:

WJW/LP7068414 CJS-Synthesis-PCT B

SIGNED for and on behalf of CANCER RESEARCH TECHNOLOGY LIMITED at (city, country):	Signature:
in the presence of: Witness Signature:	· · · · · · · · · · · · · · · · · · ·
Name: Address: Occupation:	

WJW/LP7088414 CJS-Synthesis-PCT



ASSIGNMENT OF INVENTION AND RELATED INTELLECTUAL PROPERTY RIGHTS

Parties:

1 'The Inventors'

ALFONSO ZAMBON

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

DAN NICULESCU-DUVAZ

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

RICHARD CHUBB

of: Onyx Scientific Limited, Units 97 & 98 Silverbriar, Sunderland Enterprise Park East, Sunderland, Tyne and Wear, SR5 2TQ, United Kingdom.

CAROLINE JOY SPRINGER

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

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ONYX SCIENTIFIC LIMITED

of: Units 97 & 98 Silverbriar, Sunderland Enterprise Park East, Sunderland, Tyne and Wear, SR5 2TQ, United Kingdom. (Company No. 03947634, incorporated under the laws of England & Wales)

3 'CRT'

CANCER RESEARCH TECHNOLOGY LIMITED

of: Angel Building, 407 St John Street, London, Greater London, EC1V 4AD, United Kingdom. (Company No. 01626049, incorporated under the laws of England & Wales)

4 'The ICR'

institute of cancer research: Royal cancer Hospital (THE) of: 123 Old Brompton Road, London, Greater London, SW7 3RP, United Kingdom. (Company No. 00534147, incorporated under the laws of England & Wales)

B

Recitals:

- (A) The Inventors are the joint inventors of the invention or inventions entitled "Methods of chemical synthesis" and "Methods for chemical synthesis of 8-(4-aminophenoxy-4H-pyrido[2,3-b]pyrazin-3-one and related compounds" (hereinafter referred to as "The Invention") for which United Kingdom (GB) patent application number 1320732.9 (hereinafter referred to as "The Priority Application") and International (PCT) patent application number PCT/GB2014/053489 (hereinafter referred to as "The PCT Application"), as set out in the Schedule hereto, have been filed. (The Priority Application and The PCT Application together with any subsequent applications being hereinafter referred to collectively as "The Patent Applications".)
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- (C) The Inventors, Onyx, CRT, and The ICR variously agreed before The Priority Application was filed that CRT and The ICR would be the joint owners of The Invention and The Patent Applications.
- (D) In pursuance of that agreement, The Inventors, Onyx, CRT, and The ICR have agreed to execute this Assignment in order to confirm and ensure that all rights, title and interest worldwide in, to, under and arising from The Invention and The Patent Applications belong jointly to CRT and The ICR.
- (E) Inventors ZAMBON, NICULESCU-DUVAZ, and SPRINGER were at all material times employed by The ICR to carry out the research from which their contribution to The Invention and The Patent Applications arose.
- (F) Inventor ZAMBON, NICULESCU-DUVAZ, and SPRINGER have agreed to execute this Assignment in order to confirm and ensure that, as between them and their employer (The ICR), their contribution to The Invention and all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications belongs to their employer (The ICR).
- (G) Inventor CHUBB was at all material times employed by Onyx to carry out the research from which his contribution to The Invention and The Patent Applications arose.
- (H) Inventor CHUBB has agreed to execute this Assignment in order to confirm and ensure that, as between him and his employer (Onyx), his contribution to The Invention and The Patent Applications belongs to his employer (Onyx).
- (I) Onyx was at all material times under contract with The ICR to carry out the research from which the contribution of their employee (inventor CHUBB) to The Invention and The Patent Applications arose.
- (J) Onyx has agreed to execute this Assignment in order to confirm and ensure that, as between them and The ICR, all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications belong to The ICR.
- (K) The ICR has agreed to execute this Assignment in order to confirm and ensure that, as between them and CRT, all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications are shared equally with CRT.

Operative provisions:

- In consideration for the payment of £1.00 by The ICR to each of inventors ZAMBON, NICULESCU-DUVAZ, and SPRINGER (the receipt and adequacy of which are hereby acknowledged), and to the extent that they have not already done so, those inventors hereby sell and assign to The ICR absolutely and free from incumbrances all their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by Onyx to inventor CHUBB (the receipt and adequacy of which are hereby acknowledged), and to the extent that he has not already done so, that inventor hereby sells and assigns to Onyx absolutely and free from incumbrances all his rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by The ICR to Onyx (the receipt and adequacy of which are hereby acknowledged), and to the extent that it has not already done so, Onyx hereby sells and assigns to The ICR absolutely and free from incumbrances all their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by CRT to The ICR (the receipt and adequacy of which are hereby acknowledged), and to the extent that it has not already done so, The ICR hereby sells and assigns to CRT absolutely and free from incumbrances a one-half share of their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- The rights sold and assigned in clauses 1 through 4 above are all rights title and interest in, to, under, and arising from The Invention and The Patent Applications, including:
 - 5.1 all rights title and interest in all countries of the world in, to, under, and arising from The Invention; The Patent Applications; and all patent applications derived therefrom and any and all patent applications linked by priority thereto and any and all divisionals, continuations and continuations-in-part of any of the aforesaid patent applications and any and all patents that may be granted pursuant thereto for the full period thereof including any re-issues, re-examinations, renewals, extensions and Supplementary Protection Certificates and including all rights and powers arising or accrued therefrom including the right to sue for damages and other remedies in respect of any infringement of any such rights before on or after the date hereof:
 - 5.2 all such rights to apply for prosecute and obtain patents and other intellectual property protection anywhere in the world in respect of The Invention to the intent that the grant of any patents or other intellectual property protection for The Invention shall be in the name of and shall vest in CRT and The ICR or their successors or assigns; and
 - all such rights to claim priority from one or more or all of The Patent Applications in any and all subsequent applications for protection for The Invention, such rights to be enjoyed by CRT and The ICR with effect from the dates of filing of The Patent Applications, respectively;

B

Assignment GB 1320732.9 & PCT/GB2014/053489

CJS-Synthesis-PCT

WJW/LP7068414

to the intent that CRT and The ICR shall have and hold the rights title and interest hereby assigned as fully and entirely as the same would have been held and enjoyed by The Inventors, Onyx, and The ICR had this Assignment not been made.

- The Inventors, Onyx, CRT, and The ICR hereby GRANT the firm of Mewburn Ellis LLP the power to insert in the Schedule to this Assignment any further identification of any future patent applications in Canada or the United States or any other countries or regions of the world which fall within the scope of clauses 1 to 5 above, as may be necessary or desirable in order to comply with the rules of the United States Patent Office or the Canadian Patent Office or any other intellectual property office for recordation of this document.
- The Inventors, Onyx, CRT, and The ICR hereby UNDERTAKE that at the request and cost of CRT and The ICR or their successors or assigns they will at all times hereafter promptly do all such acts and execute all such documents (including but not limited to documents required to be signed by or on behalf of inventors in the course of any and all patent applications which relate to The Invention) as may be reasonably necessary or desirable to secure the vesting in CRT and The ICR or their successors or assigns of all rights title and interest assigned to CRT and The ICR hereunder and to confirm the title of CRT and The ICR or their successors or assigns to all such rights title and interest and to assist in the resolution of any question concerning The Invention or any application for patent or other intellectual property protection for The Invention or any intellectual property protection granted pursuant to any such application.
- The Inventors, Onyx, CRT, and The ICR hereby request the relevant authorities in all countries of the world to issue any patents granted for The Invention in the name of CRT and The ICR or their successors or assigns in accordance with this Assignment.
- This Assignment and undertaking shall be binding upon the heirs, executors, administrators, successors and/or assigns of each of Inventors, Onyx, CRT, and The ICR and shall enure to the benefit of any heirs, executors, administrators, successors and/or assigns of CRT and The ICR.
- This agreement shall be governed by and interpreted in accordance with the laws of England, and the courts of England shall have exclusive jurisdiction to settle any disputes which may arise in connection with this agreement.

IN WITNESS WHEREOF the parties hereto have executed this Assignment and undertaking:

SCHEDULE

Mewburn Ellis LLP REFERENCE NO.	COUNTRY	APPLICATION NUMBER	FILING DATE
6943120	GB	1320732.9	25 November 2013 (25.11.2013)
7068414	wo	PCT/GB2014/053489	25 November 2014 (25.11.2014)

in the presence of: Witness Signature: Name: Address: Occupation: SIGNED by RICHARD CHUBB at (city, country): On (date): 72:1-2011 Name: Name: N	
Name: Address: Occupation: SIGNED by DAN NICULESCU-DUVAZ at (city, country): on (date): Signature: Name: Address: Occupation: SIGNED by RICHARD CHUBB at (city, country): Don (date): In the presence of: Mitness Signature: Signat	at (city, country):
at (city, country): on (date): in the presence of: Witness Signature: Name: Address: Occupation: SIGNED by RICHARD CHUBB at (city, country): on (date): n the presence of: Witness Signature: Signature: Signature: Signature: Occupation: Signature: Occupation: Signature: Occupation: Signature: Occupation: Signature: Occupation: Signature: Occupation: Occupation: Signature: Occupation: Occupa	Name:
n the presence of: Mitness Signature: Name: OFFEK LC OFSECTION Address: 1 THE PROOF & ECCUCK	DAN NICULESCU-DUVAZ
Address: 1 The MOUNCE ECSICE	in the presence of: Witness Signature: DEREK LONDESBROUGH
	Address:i ThE Pholotik ELGICK Occupation: こい いにとこてのた

The state of the s
Signature:
AM.
Signature: Name: DENISE BOLISER Position: COMMERCIAL DIRECTOR
Signature: Name: ANGELA KUKULA Position: DIRECTOR OF ENTERPRISE

SIGNED for and on behalf of CANCER RESEARCH TECHNOLOGY LIMITED at (city, country):	Signature:
in the presence of: Witness Signature: Name: Address: Occupation:	

REEL: 039719 FRAME: 0445

ASSIGNMENT OF INVENTION AND RELATED INTELLECTUAL PROPERTY RIGHTS

Parties:

1 'The Inventors'

ALFONSO ZAMBON

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

DAN NICULESCU-DUVAZ

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

RICHARD CHUBB

of: Onyx Scientific Limited, Units 97 & 98 Silverbriar, Sunderland Enterprise Park East, Sunderland, Tyne and Wear, SR5 2TQ, United Kingdom.

CAROLINE JOY SPRINGER

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

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INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL (THE) of: 123 Old Brompton Road, London, Greater London, SW7 3RP, United Kingdom.
(Company No. 00534147, incorporated under the laws of England & Wales)

В

PATENT REEL: 039719 FRAME: 0446

Recitals:

- (A) The Inventors are the joint inventors of the invention or inventions entitled "Methods of chemical synthesis" and "Methods for chemical synthesis of 8-(4-aminophenoxy-4H-pyrido[2,3-b]pyrazin-3-one and related compounds" (hereinafter referred to as "The Invention") for which United Kingdom (GB) patent application number 1320732.9 (hereinafter referred to as "The Priority Application") and International (PCT) patent application number PCT/GB2014/053489 (hereinafter referred to as "The PCT Application"), as set out in the Schedule hereto, have been filed. (The Priority Application and The PCT Application together with any subsequent applications being hereinafter referred to collectively as "The Patent Applications".)
- (B) The Priority Application and the PCT Application were filed in the names of CRT and The ICR.
- (C) The Inventors, Onyx, CRT, and The ICR variously agreed before The Priority Application was filed that CRT and The ICR would be the joint owners of The Invention and The Patent Applications.
- (D) In pursuance of that agreement, The Inventors, Onyx, CRT, and The ICR have agreed to execute this Assignment in order to confirm and ensure that all rights, title and interest worldwide in, to, under and arising from The Invention and The Patent Applications belong jointly to CRT and The ICR.
- (E) Inventors ZAMBON, NICULESCU-DUVAZ, and SPRINGER were at all material times employed by The ICR to carry out the research from which their contribution to The Invention and The Patent Applications arose.
- (F) Inventor ZAMBON, NICULESCU-DUVAZ, and SPRINGER have agreed to execute this Assignment in order to confirm and ensure that, as between them and their employer (The ICR), their contribution to The Invention and all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications belongs to their employer (The ICR).
- (G) Inventor CHUBB was at all material times employed by Onyx to carry out the research from which his contribution to The Invention and The Patent Applications arose.
- (H) Inventor CHUBB has agreed to execute this Assignment in order to confirm and ensure that, as between him and his employer (Onyx), his contribution to The Invention and The Patent Applications belongs to his employer (Onyx).
- (I) Onyx was at all material times under contract with The ICR to carry out the research from which the contribution of their employee (inventor CHUBB) to The Invention and The Patent Applications arose.
- (J) Onyx has agreed to execute this Assignment in order to confirm and ensure that, as between them and The ICR, all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications belong to The ICR.
- (K) The ICR has agreed to execute this Assignment in order to confirm and ensure that, as between them and CRT, all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications are shared equally with CRT.

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Operative provisions:

- In consideration for the payment of £1.00 by The ICR to each of inventors ZAMBON, NICULESCU-DUVAZ, and SPRINGER (the receipt and adequacy of which are hereby acknowledged), and to the extent that they have not already done so, those inventors hereby sell and assign to The ICR absolutely and free from incumbrances all their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by Onyx to inventor CHUBB (the receipt and adequacy of which are hereby acknowledged), and to the extent that he has not already done so, that inventor hereby sells and assigns to Onyx absolutely and free from incumbrances all his rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by The ICR to Onyx (the receipt and adequacy of which are hereby acknowledged), and to the extent that it has not already done so. Onyx hereby sells and assigns to The ICR absolutely and free from incumbrances all their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by CRT to The ICR (the receipt and adequacy of which are hereby acknowledged), and to the extent that it has not already done so, The ICR hereby sells and assigns to CRT absolutely and free from incumbrances a one-half share of their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- The rights sold and assigned in clauses 1 through 4 above are all rights title and interest in, to, under, and arising from The Invention and The Patent Applications, including:
 - all rights title and interest in all countries of the world in, to, under, and arising from The Invention; The Patent Applications; and all patent applications derived therefrom and any and all patent applications linked by priority thereto and any and all divisionals, continuations and continuations-in-part of any of the aforesaid patent applications and any and all patents that may be granted pursuant thereto for the full period thereof including any re-issues, re-examinations, renewals, extensions and Supplementary Protection Certificates and including all rights and powers arising or accrued therefrom including the right to sue for damages and other remedies in respect of any infringement of any such rights before on or after the date hereof:
 - 5.2 all such rights to apply for prosecute and obtain patents and other intellectual property protection anywhere in the world in respect of The Invention to the intent that the grant of any patents or other intellectual property protection for The Invention shall be in the name of and shall vest in CRT and The ICR or their successors or assigns; and
 - 5.3 all such rights to claim priority from one or more or all of The Patent Applications in any and all subsequent applications for protection for The Invention, such rights to be enjoyed by CRT and The ICR with effect from the dates of filing of The Patent Applications, respectively;

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to the intent that CRT and The ICR shall have and hold the rights title and interest hereby assigned as fully and entirely as the same would have been held and enjoyed by The Inventors, Onyx, and The ICR had this Assignment not been made.

- The Inventors, Onyx, CRT, and The ICR hereby GRANT the firm of Mewburn Ellis LLP the power to insert in the Schedule to this Assignment any further identification of any future patent applications in Canada or the United States or any other countries or regions of the world which fall within the scope of clauses 1 to 5 above, as may be necessary or desirable in order to comply with the rules of the United States Patent Office or the Canadian Patent Office or any other intellectual property office for recordation of this document.
- The Inventors, Onyx, CRT, and The ICR hereby UNDERTAKE that at the request and cost of CRT and The ICR or their successors or assigns they will at all times hereafter promptly do all such acts and execute all such documents (including but not limited to documents required to be signed by or on behalf of inventors in the course of any and all patent applications which relate to The Invention) as may be reasonably necessary or desirable to secure the vesting in CRT and The ICR or their successors or assigns of all rights title and interest assigned to CRT and The ICR hereunder and to confirm the title of CRT and The ICR or their successors or assigns to all such rights title and interest and to assist in the resolution of any question concerning The Invention or any application for patent or other intellectual property protection for The Invention or any intellectual property protection granted pursuant to any such application.
- The Inventors, Onyx, CRT, and The ICR hereby request the relevant authorities in all countries of the world to issue any patents granted for The Invention in the name of CRT and The ICR or their successors or assigns in accordance with this Assignment.
- This Assignment and undertaking shall be binding upon the heirs, executors, administrators, successors and/or assigns of each of Inventors, Onyx, CRT, and The ICR and shall enure to the benefit of any heirs, executors, administrators, successors and/or assigns of CRT and The ICR.
- This agreement shall be governed by and interpreted in accordance with the laws of England, and the courts of England shall have exclusive jurisdiction to settle any disputes which may arise in connection with this agreement.

IN WITNESS WHEREOF the parties hereto have executed this Assignment and undertaking:

В

REEL: 039719 FRAME: 0449

- Page 5 of 8 -

SCHEDULE

Mewburn Ellis LLP REFERENCE NO.	COUNTRY	APPLICATION NUMBER	FILING DATE
6943120	GB	1320732.9	25 November 2013 (25.11.2013)
7068414	WO	PCT/GB2014/053489	25 November 2014 (25.11.2014)

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Assignment GB 1320732.9 & PCT/GB2014/053489

PATENT REEL: 039719 FRAME: 0450

SIGNED by ALFONSO ZAMBON at (city, country): on (date): In the presence of: Witness Signature: Name: Address: Occupation: SIGNED by DAN NICULESCU-DUVAZ at (city, country): on (date): In the presence of: Witness Signature: Name: Address: Occupation: SIGNED by DIAN NICULESCU-DUVAZ at (city, country): on (date): In the presence of: Witness Signature: Name: Address: Occupation: SIGNED by SI	
Witness Signature: Name: Address: Occupation: SIGNED by DAN NICULESCU-DUVAZ at (city, country): on (date): In the presence of: Witness Signature: Name: Address: Occupation: SIGNED by RICHARD CHUBB at (city, country): on (date): In the presence of: SIGNED by SIGN	at (city, country):
DAN NICULESCU-DUVAZ at (city, country): on (date): in the presence of: Witness Signature: Name: Address: Occupation: SIGNED by RICHARD CHUBB at (city, country): on (date): in the presence of: Witness Signature: Signature: Occupation: Signature: Occupation: Signature: Occupation: Signature: Occupation:	Witness Signature: Name: Address:
DAN NICULESCU-DUVAZ at (city, country): on (date): in the presence of: Witness Signature: Name: Address: Occupation: SIGNED by RICHARD CHUBB at (city, country): on (date): in the presence of: Witness Signature: Signature: Occupation: Signature: Occupation: Signature: Occupation: Signature: Occupation:	
at (city, country):	DAN NICULESCU-DUVAZ at (city, country): on (date): in the presence of: Witness Signature: Name: Address:
at (city, country):	
	at (city, country):

WJW/LP7068414 CJS-Synthesis-PCT

Assignment GB 1320732.9 & PCT/GB2014/053489

PATENT REEL: 039719 FRAME: 0451

SIGNED by CAROLINE JOY SPRINGER at (city, country):) on (date):) Signature:	•••••
in the presence of: Witness Signature: Name: Address: Occupation:	
SIGNED for and on behalf of ONYX SCIENTIFIC LIMITED at (city, country): on (date):) Signature:) Name:) Position:	
in the presence of: Witness Signature: Name: Address:	
Occupation:	THE STATE OF THE S
SIGNED for and on behalf of INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL (THE) at (city, country): OUTTON, UK. on (date): 21/01/2015.) Name: ANGELA KUKULA Position: DIRECTOR OF ENTE	
in the presence of: Witness Signature: Obcused Name: JENUIFER HERGERT Address: ICR/SUTTON, SM2, 50°T Occupation: PA. to ANGELA KUKULA:	

		_
	SIGNED for and on behalf of) CANCER RESEARCH TECHNOLOGY) LIMITED) Signature:	
1	n the presence of: <u>Mitness</u> Signature: Name:	
	Address:	

WJW/LP7068414 CJS-Synthesis-PCT



ASSIGNMENT OF INVENTION AND RELATED INTELLECTUAL PROPERTY RIGHTS

Parties:

1 'The Inventors'

ALFONSO ZAMBON

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

DAN NICULESCU-DUVAZ

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

RICHARD CHUBB

of: Onyx Scientific Limited, Units 97 & 98 Silverbriar, Sunderland Enterprise Park East, Sunderland, Tyne and Wear, SR5 2TQ, United Kingdom.

CAROLINE JOY SPRINGER

of: The Institute of Cancer Research, Cancer Research UK Cancer Therapeutics Unit, 15 Cotswold Road, Sutton, Surrey, SM2 5NG, United Kingdom.

2 'Onyx'

ONYX SCIENTIFIC LIMITED

of: Units 97 & 98 Silverbriar, Sunderland Enterprise Park East, Sunderland, Tyne and Wear, SR5 2TQ, United Kingdom. (Company No. 03947634, incorporated under the laws of England & Wales)

3 'CRT'

CANCER RESEARCH TECHNOLOGY LIMITED

В

of: Angel Building, 407 St John Street, London, Greater London, EC1V 4AD, United Kingdom. (Company No. 01626049, incorporated under the laws of England & Wales)

'The ICR'

WJW/LP7068414

INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL (THE) of: 123 Old Brompton Road, London, Greater London, SW7 3RP, United Kingdom. (Company No. 00534147, incorporated under the laws of England & Wales)

CJS-Synthesis-PCT

Recitals:

- (A) The Inventors are the joint inventors of the invention or inventions entitled "Methods of chemical synthesis" and "Methods for chemical synthesis of 8-(4-aminophenoxy-4H-pyrido[2,3-b]pyrazin-3-one and related compounds" (hereinafter referred to as "The Invention") for which United Kingdom (GB) patent application number 1320732.9 (hereinafter referred to as "The Priority Application") and International (PCT) patent application number PCT/GB2014/053489 (hereinafter referred to as "The PCT Application"), as set out in the Schedule hereto, have been filed. (The Priority Application and The PCT Application together with any subsequent applications being hereinafter referred to collectively as "The Patent Applications".)
- (B) The Priority Application and the PCT Application were filed in the names of CRT and The ICR.
- (C) The Inventors, Onyx, CRT, and The ICR variously agreed before The Priority Application was filed that CRT and The ICR would be the joint owners of The Invention and The Patent Applications.
- (D) In pursuance of that agreement, The Inventors, Onyx, CRT, and The ICR have agreed to execute this Assignment in order to confirm and ensure that all rights, title and interest worldwide in, to, under and arising from The Invention and The Patent Applications belong jointly to CRT and The ICR.
- (E) Inventors ZAMBON, NICULESCU-DUVAZ, and SPRINGER were at all material times employed by The ICR to carry out the research from which their contribution to The Invention and The Patent Applications arose.
- (F) Inventor ZAMBON, NICULESCU-DUVAZ, and SPRINGER have agreed to execute this Assignment in order to confirm and ensure that, as between them and their employer (The ICR), their contribution to The Invention and all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications belongs to their employer (The ICR).
- (G) Inventor CHUBB was at all material times employed by Onyx to carry out the research from which his contribution to The Invention and The Patent Applications arose.
- (H) Inventor CHUBB has agreed to execute this Assignment in order to confirm and ensure that, as between him and his employer (Onyx), his contribution to The Invention and The Patent Applications belongs to his employer (Onyx).
- (I) Onyx was at all material times under contract with The ICR to carry out the research from which the contribution of their employee (inventor CHUBB) to The Invention and The Patent Applications arose.
- (J) Onyx has agreed to execute this Assignment in order to confirm and ensure that, as between them and The ICR, all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications belong to The ICR.
- (K) The ICR has agreed to execute this Assignment in order to confirm and ensure that, as between them and CRT, all their rights, title and interest in, to, under and arising from The Invention and The Patent Applications are shared equally with CRT.

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Assignment GB 1320732.9 & PCT/GB2014/053489

REEL: 039719 FRAME: 0455

Operative provisions:

- In consideration for the payment of £1.00 by The ICR to each of inventors ZAMBON, NICULESCU-DUVAZ, and SPRINGER (the receipt and adequacy of which are hereby acknowledged), and to the extent that they have not already done so, those inventors hereby sell and assign to The ICR absolutely and free from incumbrances all their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by Onyx to inventor CHUBB (the receipt and adequacy of which are hereby acknowledged), and to the extent that he has not already done so, that inventor hereby sells and assigns to Onyx absolutely and free from incumbrances all his rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by The ICR to Onyx (the receipt and adequacy of which are hereby acknowledged), and to the extent that it has not already done so, Onyx hereby sells and assigns to The ICR absolutely and free from incumbrances all their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- In consideration for the payment of £1.00 by CRT to The ICR (the receipt and adequacy of which are hereby acknowledged), and to the extent that it has not already done so, The ICR hereby sells and assigns to CRT absolutely and free from incumbrances a one-half share of their rights title and interest in, to, under, and arising from The Invention and The Patent Applications, and including those rights set out in clause 5 below.
- The rights sold and assigned in clauses 1 through 4 above are all rights title and interest in, to, under, and arising from The Invention and The Patent Applications, including:
 - 5.1 all rights title and interest in all countries of the world in, to, under, and arising from The Invention; The Patent Applications; and all patent applications derived therefrom and any and all patent applications linked by priority thereto and any and all divisionals, continuations and continuations-in-part of any of the aforesaid patent applications and any and all patents that may be granted pursuant thereto for the full period thereof including any re-issues, re-examinations, renewals, extensions and Supplementary Protection Certificates and including all rights and powers arising or accrued therefrom including the right to sue for damages and other remedies in respect of any infringement of any such rights before on or after the date hereof;
 - 5.2 all such rights to apply for prosecute and obtain patents and other intellectual property protection anywhere in the world in respect of The Invention to the intent that the grant of any patents or other intellectual property protection for The Invention shall be in the name of and shall vest in CRT and The ICR or their successors or assigns; and
 - 5.3 all such rights to claim priority from one or more or all of The Patent Applications in any and all subsequent applications for protection for The Invention, such rights to be enjoyed by CRT and The ICR with effect from the dates of filing of The Patent Applications, respectively;

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WJW/LP7068414 CJS-Synthesis-PCT

to the intent that CRT and The ICR shall have and hold the rights title and interest hereby assigned as fully and entirely as the same would have been held and enjoyed by The Inventors, Onyx, and The ICR had this Assignment not been made.

- The Inventors, Onyx, CRT, and The ICR hereby GRANT the firm of Mewburn Ellis LLP the power to insert in the Schedule to this Assignment any further identification of any future patent applications in Canada or the United States or any other countries or regions of the world which fall within the scope of clauses 1 to 5 above, as may be necessary or desirable in order to comply with the rules of the United States Patent Office or the Canadian Patent Office or any other intellectual property office for recordation of this document.
- The Inventors, Onyx, CRT, and The ICR hereby UNDERTAKE that at the request and cost of CRT and The ICR or their successors or assigns they will at all times hereafter promptly do all such acts and execute all such documents (including but not limited to documents required to be signed by or on behalf of inventors in the course of any and all patent applications which relate to The Invention) as may be reasonably necessary or desirable to secure the vesting in CRT and The ICR or their successors or assigns of all rights title and interest assigned to CRT and The ICR hereunder and to confirm the title of CRT and The ICR or their successors or assigns to all such rights title and interest and to assist in the resolution of any question concerning The Invention or any application for patent or other intellectual property protection for The Invention or any intellectual property protection granted pursuant to any such application.
- The Inventors, Onyx, CRT, and The ICR hereby request the relevant authorities in all countries of the world to issue any patents granted for The Invention in the name of CRT and The ICR or their successors or assigns in accordance with this Assignment.
- This Assignment and undertaking shall be binding upon the heirs, executors, administrators, successors and/or assigns of each of Inventors, Onyx, CRT, and The ICR and shall enure to the benefit of any heirs, executors, administrators, successors and/or assigns of CRT and The ICR.
- This agreement shall be governed by and interpreted in accordance with the laws of England, and the courts of England shall have exclusive jurisdiction to settle any disputes which may arise in connection with this agreement.

IN WITNESS WHEREOF the parties hereto have executed this Assignment and undertaking:

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- Page 5 of 8 -

SCHEDULE

COUNTRY	APPLICATION NUMBER	FILING DATE
GB	1320732.9	25 November 2013 (25.11.2013)
Wo	PCT/GB2014/053489	25 November 2014 (25.11.2014)
	The second secon	
1		
	GB WO	GB 1320732.9 WO PCT/GB2014/053489

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SIGNED by ALFONSO ZAMBON at (city, country):) on (date):	
in the presence of: Witness Signature: Name: Address: Occupation:	
SIGNED by DAN NICULESCU-DUVAZ at (city, country):	Signature:
SIGNED by) RICHARD CHUBB) at (city, country):)	
on (date):	Signature:

in the presence of:		Signature:
<u>Witness</u> Signature:		
Name:		
Address:		
Occupation:		·
OLONED C		444.44.44.44.44.44.44.44.44.44.44.44.44
SIGNED for and on behalf of ONYX SCIENTIFIC LIMITED)	Signature:
at (city, country):)	Name:
on (date):		
	•	
in the presence of: Witness		
Signature:		
Name:		
Address:		
Occupation:		
SIGNED for and on behalf of INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL (THE) at (city, country):)))	Signature: Name: ANGELA KUKULA
on (date):		
in the presence of: Witness Signature: Name: Address:		
Occupation:		

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WJW/LP7068414 CJS-Synthesis-PCT

- Page 8 of 8 -

 SIGNED for and on behalf of CANCER RESEARCH TECHNOLOGY LIMITED at (city, country): London, Mane: KEITH BLUNDY on (date): 30/11/15 Position: CHIEF EXECUTIVE OFFICER	
in the presence of: Witness Signature: New Lenned: Name: Signature: Lenned: Address: 65. Swen Lane, London, N20 OPA Occupation: Executive. Assistant:	

WJW/LP7068414 CJS-Synthesis-PCT

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Assignment GB 1320732.9 & PCT/GB2014/053489

PATENT REEL: 039719 FRAME: 0461

RECORDED: 08/10/2016