

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5026658

| | |
|---|---|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SINGAPORE VOLITION PTE LIMITED | 11/01/2016 |
| RECEIVING PARTY DATA | |
| Name: | BELGIAN VOLITION SPRL |
| Street Address: | CENTRE TECHNOLOGIQUE |
| Internal Address: | RUE DU SEMINAIRE, 20A |
| City: | NAMUR |
| State/Country: | BELGIUM |
| Postal Code: | B-5000 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15768984 |
| CORRESPONDENCE DATA | |
| Fax Number: | (858)792-6773 |
| <i>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.</i> | |
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| Email: | djones-beasley@foley.com, ipdocketing@foley.com |
| Correspondent Name: | DEBORAH JONES-BEASLEY |
| Address Line 1: | FOLEY & LARDNER LLP |
| Address Line 2: | 3000 K STREET, N.W., SUITE 600 |
| Address Line 4: | WASHINGTON, D.C. 20007 |
| ATTORNEY DOCKET NUMBER: | 101212-1650 |
| NAME OF SUBMITTER: | DEBORAH JONES-BEASLEY |
| SIGNATURE: | /Deborah Beasley/ |
| DATE SIGNED: | 06/27/2018 |
| Total Attachments: 7 | |
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ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

THIS ASSIGNMENT is made the 1st day of NOVEMBER, 2016

Parties:

1 **'The Assignor': SINGAPORE VOLITION PTE. LIMITED** a company incorporated in Singapore with company registration no. 201016543R of 165 Gangsa Road, Unit 01-70, Singapore 670165;

2 **'The Assignee': BELGIAN VOLITION SPRL** a company incorporated in Belgium with company registration no. BE 891.006.861, whose offices are at Centre Technologique, Rue du Séminaire, 20A, B-5000, Namur, Belgium.

Recitals:

- (A) The Assignor is the registered proprietor of certain patents granted in Europe, the United States of America and in certain other jurisdictions as set out in the Schedule hereto (the "Granted Patents");
- (B) The Assignor is also the applicant of certain published and unpublished patent applications registered in Europe, the United States of America and in certain other jurisdictions as set out in the Schedule hereto (the "Patent Applications"). (The Granted Patents and Patent Applications are hereinafter together referred to as the "Patents");
- (C) The Assignor wishes to assign the Patents in all designated states and jurisdictions to the Assignee for the consideration stated below.

Operative provisions:

In consideration for the payment of £1.00 and other good and valuable consideration by the Assignee to the Assignor (the receipt and sufficiency of which is hereby acknowledged by the Assignor):

1 The Assignor HEREBY ASSIGNS and transfers to the Assignee absolutely and free from incumbrances, and the Assignee hereby accepts such assignment and transfer, all its right, title and

interest in and to the Patents together with all rights and powers arising or accrued therefrom and all its right, title and interest in all inventions disclosed in the Patents, including the absolute entitlement to the Granted Patents and to any patent(s) granted pursuant to the Patent Applications and including the right to bring, make, oppose, defend, appeal proceedings, claims or actions and obtain relief (and to retain any damages recovered) in respect of any infringement, or any other cause of action within the scope of the claims of any published specification of the Granted Patents and the Patent Applications, whether occurring before, on or after the date of this assignment. This assignment includes any future patents or patent applications which are based on or derive priority from or claim common priority to the Patents.

2 The Assignor agrees that at the request and cost of the Assignee it will at all times hereafter do all such acts and execute all such documents as may be reasonably necessary or desirable both to secure the vesting in the Assignee of all rights assigned to the Assignee hereunder and to assist in the resolution of any question concerning the Patents.

3 This assignment and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and construed in accordance with the law of England and Wales.

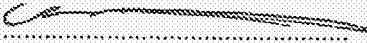
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IN WITNESS whereof this document has been executed by the Parties as a deed and is delivered and takes effect on the date stated at the beginning of it.

EXECUTED as a deed by
the Assignor

SINGAPORE VOLITION PTE. LIMITED

Signature:



Full Name:

Cameron Reynolds

Capacity:

CEO

Witness Signature:



Witness Full Name:

GUY INNES

Witness Address:

TITSEY PLACE, OXTED, SURREY RH8 0SD

Witness Occupation:

COMPANY DIRECTOR

EXECUTED as a deed by
the Assignee

BELGIAN VOLITION SPRL

Signature:



Full Name:

MICHEL G

Capacity:

CEO

Witness Signature:



Witness Full Name:

CHRISTINE EVRARD

Witness Address:

Rue de Aquinas 65 BE-5100 Namur

Witness Occupation:

RA Associate

SCHEDULE

The Assignor currently has 10 published patent families and 7 unpublished patent families.

PUBLISHED ISSUED AND PENDING PATENTS

WO2005019826

Detection of histone modifications in cell-free nucleosomes

Priority 18 Aug 2003

Expected expiry – EP: 18 Aug 2024; US: 18 May 2029 (includes 1734 days PTA)

Owned by Singapore Volition by assignment from Chroma Therapeutics Ltd

| | Application No. | Grant No. | Status |
|-----------------------|-----------------|-----------|---------|
| Europe | 04768123.4 | 1668368 | ISSUED |
| USA | 10/568,691 | 9,128,086 | ISSUED |
| USA (continuation) | 14/816,329 | - | PENDING |

WO2012013955

Method for detecting the presence of a gynaecological growth

Priority 28 July 2010

Expected expiry 19 July 2031

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|------------------|-----------------|------------|---------|
| USA | 13/811,813 | - | PENDING |
| USA (divisional) | 14/842,430 | - | PENDING |
| CANADA | 2,806,675 | - | PENDING |
| AUSTRALIA | 2011284481 | 2011284481 | ISSUED |
| EUROPE | 11736145.1 | - | PENDING |
| HONG KONG | 13112168.6 | - | PENDING |

WO2013030578

Method for Detecting Nucleosomes

Priority 1 September 2011

Expected expiry 31 Aug 2032

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|-----------|-----------------|-----------|---------|
| EUROPE | 12762366.8 | - | PENDING |
| USA | 14/239,782 | 9,222,937 | ISSUED |
| HONG KONG | 15100176.9 | - | PENDING |

WO2013030579

Method for Detecting Nucleosomes Containing Histone Variants

Priority 1 September 2011

Expected expiry 31 Aug 2032

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|------------------|-----------------|------------|---------|
| EUROPE | 12762367.6 | - | PENDING |
| USA | 14/239,779 | 9,400,276 | ISSUED |
| USA (divisional) | 15/189,977 | - | PENDING |
| CANADA | 2,845,994 | - | PENDING |
| AUSTRALIA | 2012300643 | - | PENDING |
| SOUTH AFRICA | 2014/01296 | 2014/01296 | ISSUED |
| INDIA | 534/MUMNP/2014 | - | PENDING |

PATENT

REEL: 046215 FRAME: 0971

| | | | |
|------------------------|------------------|---|---------|
| BRAZIL | 1120140045844 | - | PENDING |
| JAPAN | 2014-527738 | - | PENDING |
| CHINA | 201280053594.1 | - | PENDING |
| SINGAPORE (divisional) | 10201601168Q | - | PENDING |
| RUSSIA | 2014112348 | - | PENDING |
| SOUTH KOREA | 10-2014-7008116 | - | PENDING |
| MEXICO | MX/A/2014/002444 | - | PENDING |
| HONG KONG | 15100173.2 | - | PENDING |

WO2013030577

Method for Detecting Nucleosomes Containing Nucleotides

Priority 1 September 2011

Expected expiry 31 Aug 2032

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|------------------------|------------------|------------|---------|
| EUROPE | 12756549.7 | - | PENDING |
| USA | 14/239,783 | - | PENDING |
| CANADA | 2,845,993 | - | PENDING |
| AUSTRALIA | 2012300641 | - | PENDING |
| SOUTH AFRICA | 2014/01295 | 2014/01295 | ISSUED |
| INDIA | 530/MUMNP/2014 | - | PENDING |
| BRAZIL | BR1120140050872 | - | PENDING |
| JAPAN | 2014-527737 | - | PENDING |
| CHINA | 201280053555.1 | - | PENDING |
| SINGAPORE (divisional) | 10201601153R | - | PENDING |
| RUSSIA | 2014112350 | - | PENDING |
| SOUTH KOREA | 10-2014-7008108 | - | PENDING |
| MEXICO | MX/A/2014/002443 | - | PENDING |
| HONG KONG | 15100175.0 | - | PENDING |

WO2013084002

Method for Detecting Nucleosome Adducts

Priority 7 December 2011

Expected expiry 7 December 2032

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|------------------------|------------------|------------|---------|
| EUROPE | 12803518.5 | - | PENDING |
| USA | 14/362,596 | 9187780 | ISSUED |
| USA (continuation) | 14/875,632 | - | PENDING |
| CANADA | 2,855,375 | - | PENDING |
| AUSTRALIA | 2012349855 | - | PENDING |
| SOUTH AFRICA | 2014/03260 | 2014/03260 | ISSUED |
| INDIA | 1306/MUMNP/2014 | - | PENDING |
| BRAZIL | BR1120140130825 | - | PENDING |
| JAPAN | 2014-545358 | - | PENDING |
| CHINA | 201280060149.8 | - | PENDING |
| SINGAPORE (divisional) | 10201604081Y | - | PENDING |
| RUSSIA | 2014127493 | - | PENDING |
| SOUTH KOREA | 10-2014-7014917 | - | PENDING |
| MEXICO | MX/A/2014/006866 | - | PENDING |
| HONG KONG | 15103512.6 | - | PENDING |

WO2014131845

Method for Predicting Therapy Efficacy using Nucleosome Structure Biomarkers

Priority 28 February 2013

Expected expiry 27 Feb 2034

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|--------|-----------------|-----------|---------|
| EUROPE | 14707150.0 | - | PENDING |
| USA | 14/770,798 | - | PENDING |

WO2014131842

Method for Detecting Histone Modifications in Nucleosomes

Priority 28 February 2013

Expected expiry 27 Feb 2034

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|--------|-----------------|-----------|---------|
| EUROPE | 14706861.3 | - | PENDING |
| USA | 14/770,796 | - | PENDING |

WO2016067029

Method for the enrichment of circulating tumor DNA

Priority 29 October 2014

Expected expiry 29 Oct 2035

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|-----------------|-------------------|-----------|---------|
| WORLDWIDE (PCT) | PCT/GB2015/053238 | - | PENDING |

WO2016092306

Method for the Detection of Hormone Sensitive Disease Progression

Priority 10 December 2014

Expected expiry 10 Dec 2035

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|-----------------|-------------------|-----------|---------|
| WORLDWIDE (PCT) | PCT/GB2015/053776 | - | PENDING |

UNPUBLISHED PATENT APPLICATIONS**PCT/GB2016/051994**

Use of cell-free nucleosomes as biomarkers

Priority 1 July 2015

Expected expiry 1 July 2036

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|-----------------|-------------------|-----------|---------|
| WORLDWIDE (PCT) | PCT/GB2016/051994 | - | PENDING |

PCT/GB2016/051995

Use of cell-free nucleosomes as biomarkers

Priority 1 July 2015

Expected expiry 1 July 2036

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|-----------------|-------------------|-----------|---------|
| WORLDWIDE (PCT) | PCT/GB2016/051995 | - | PENDING |

PATENT**REEL: 046215 FRAME: 0973**

PCT/GB2016/053305

Method for the enrichment of cell free nucleosomes

Priority 21 October 2015

Expected expiry 21 October 2036

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|-----------------|-------------------|-----------|---------|
| WORLDWIDE (PCT) | PCT/GB2016/053305 | - | PENDING |

PCT/GB2016/053288

Method for detecting nucleosomes containing histone modifications and variants

Priority 21 October 2015

Expected expiry 21 October 2036

Applicant: Singapore Volition Pte Limited

| | Application No. | Grant No. | Status |
|-----------------|-------------------|-----------|---------|
| WORLDWIDE (PCT) | PCT/GB2016/053288 | - | PENDING |

