

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	SEBASTIAN SCHAEFER	04/17/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	NATIONAL UNIVERSITY OF SINGAPORE	
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<b>City:</b>	SINGAPORE	
<b>State/Country:</b>	SINGAPORE	
<b>Postal Code:</b>	119077	
<b>Name:</b>	SINGAPORE HEALTH SERVICES PTE LTD	
<b>Street Address:</b>	31 THIRD HOSPITAL AVENUE #03-03	
<b>Internal Address:</b>	BOWYER BLOCK C	
<b>City:</b>	SINGAPORE	
<b>State/Country:</b>	SINGAPORE	
<b>Postal Code:</b>	168753	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	16726190	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(617)646-8646	
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<b>Phone:</b>	6176468000	
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<b>Correspondent Name:</b>	JOSHUA BRANDT	
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<b>ATTORNEY DOCKET NUMBER:</b>	E0601.70002US01	
<b>NAME OF SUBMITTER:</b>	JOSHUA M. BRANDT	
<b>SIGNATURE:</b>	/Joshua M. Brandt/	

<b>DATE SIGNED:</b>	04/16/2020
<b>Total Attachments: 6</b> source=E060170002US01-ASI-JOB#page1.tif source=E060170002US01-ASI-JOB#page2.tif source=E060170002US01-ASI-JOB#page3.tif source=E060170002US01-ASI-JOB#page4.tif source=E060170002US01-ASI-JOB#page5.tif source=E060170002US01-ASI-JOB#page6.tif	

## ASSIGNMENT OF INVENTIONS & PATENT RIGHTS

### Parties

- (1) **SCHAEFER, SEBASTIAN** of 76 Shenton Way, 76 Shenton #24-04, 079119 Singapore, Singapore (the "Inventor");
  - (2) **NATIONAL HEART CENTRE OF SINGAPORE** a company incorporated under the laws of Singapore with CRN/UEN: 199801148C whose registered office is at 31 Third Hospital Avenue, #03-03 Bowyer Block, Singapore 168753 ("NHCS"); and
  - (3) **NATIONAL UNIVERSITY OF SINGAPORE** a company incorporated under the laws of Singapore with CRN/UEN: 200604346E whose registered office is at is at 21 Lower Kent Ridge Road, 119077 Singapore ("NUS");
- each of NHCS and NUS an "Employer" or together the "Employers" as the context may indicate; and
- (4) **SINGAPORE HEALTH SERVICES PTE LTD** incorporated and registered in Singapore with CRN/UEN: 200002698Z whose registered office is at 31 Third Hospital Avenue, #03-03, Bowyer Block C, 168753 Singapore, Singapore ("SingHealth").

### Background

- A. The Inventor and the Employers believe that, either by operation of law, Intellectual Property Policy or by virtue of an agreement entered into by the Inventor and the Employers before the making of the Invention, the Employers were, at the time the Invention was made, jointly entitled to the whole of the property in the contributions of the Inventor to the Invention.
- B. The Employers are party to the Intellectual Property Agreement dated 28 December 2015 under which the Employers agreed that they are jointly entitled to an equal share in the Invention and the Patent Applications.
- C. NHCS is a wholly-owned subsidiary of SingHealth and under the intra-group governance documents, including the Intellectual Property Policy of the SingHealth healthcare group, NHCS has agreed, at SingHealth's demand, to assign its one half share in the Invention and the Patent Applications to SingHealth on the terms set out in this Assignment.
- D. In order to ensure, and to provide documentary evidence that NUS and SingHealth are the joint owners of the legal and beneficial interest in all the rights, title and interest in, to and arising from the Invention and the Patent Applications, the parties have agreed to execute this Assignment.

## **Agreed terms**

### **1. Definitions**

The definitions in this clause apply in this Assignment.

**"Completion Applications"** means the completion patent applications, short particulars of which are set out in Part 2 of the Schedule.

**"Invention"** means the inventions entitled IL-11 ANTIBODIES, IL-11RA ANTIBODIES and DECOY CYTOKINE RECEPTOR being the subject matter of the Priority Applications.

**"Patent Applications"** means the Priority Applications, the Completion Applications and any future applications linked by one or more priorities to the Priority Applications or the Completion Applications and all matter contained in such applications and any and all:

- (a) national and regional phase applications of all such applications; and
- (b) divisions, continuations and continuations-in-part of all such applications; and
- (c) patents that may be granted pursuant to any of the aforesaid applications for their full period, including any re-issues, re-examinations, renewals, extensions and Supplementary Protection Certificates.

**"Priority Applications"** means the priority patent applications, short particulars of which are set out in Part 1 of the Schedule.

### **2. Assignment**

In consideration of the sum of S\$ 1.00 SGD (sufficiency and receipt of which the Inventor and the Employers expressly acknowledge), the Inventor hereby assigns jointly and absolutely to the Employers and thereafter, NHCS assigns absolutely to SingHealth, its one half share in; all their right, title and interest in all countries, regions and territories of the world in, to and arising from the Invention and, with effect from immediately prior to the filing of each, the Patent Applications, including (but not limited to):

- (a) in respect of the Invention and any invention that shall be disclosed in, and all matter that shall be contained in, any of the Patent Applications, the right to file applications, claim priority from such applications, and prosecute and obtain grant of patent or other intellectual property protection in respect of any country, region or territory in the world;
- (b) in respect of each and any Patent Application:

- (i) the right to claim priority from and to prosecute and obtain grant of patents; and
- (ii) the right to file divisional applications based on the Patent Applications and to prosecute and obtain grant of patent on each and any such divisional application;
- (c) the right to extend to, or register in or in respect of any country, region or territory in the world, each and any of the Patent Applications and to extend to or register in, or in respect of, any country, region or territory in the world any patent or other intellectual property protection granted on any of such applications;
- (d) the absolute entitlement to any patents granted pursuant to any Patent Application; and
- (e) the right to bring, make, oppose or defend claims or actions, appeal proceedings and obtain relief (and to retain any damages recovered) in respect of any infringement, or any other cause of action arising from ownership, of the Inventions and the Patent Applications, whether occurring before on or after the date of this Assignment.

**3. Further assurance**

The Inventor and the Employers shall, at the shared cost of NUS and SingHealth, perform all further acts and things, and execute all further documents, required by law or which NUS and SingHealth request to vest in NUS and SingHealth the full benefit of the right, title and interest assigned to NUS and SingHealth under this Assignment, including (but not limited to):

- (a) documents required to be signed by or on behalf of the Inventor or the Employers in the course of any applications which relate to the Invention or to any inventions that shall be disclosed in any of the Patent Applications;
- (b) registration of NUS and SingHealth as joint applicants for, or joint proprietors of, the Patent Applications; and
- (c) assisting NUS and SingHealth in obtaining, defending and enforcing any of the Patent Applications, and assisting with any other proceedings which may be brought by or against the NUS and/or SingHealth by or against any third party or in the resolution of any question concerning the Invention, or the Patent Applications or any inventions that shall be disclosed in any of the Patent Applications.

**4. Right to amend the Schedule**

The Inventor, the Employers and SingHealth grant the firm of Mewburn Ellis LLP the right to insert in Part 2 of the Schedule to this Assignment any further identification of any existing or future patent applications in any countries, regions or territories of the world, which shall fall within the scope of clause 2 above, or as may be necessary or desirable in order to comply with the rules of a patent office for the recordal of this Assignment.

**5. Counterparts**

This Assignment may be executed in any number of counterparts, each of which when executed shall constitute an original of this Assignment, but all the counterparts shall together constitute the same agreement.

**6. Governing law and jurisdiction**

This Assignment is governed by the laws of the Republic of Singapore and subject to the exclusive jurisdiction of its courts.

**Schedule: The Patent Applications**

**Part 1: Priority Applications**

Country	Application No.	Application Date	Title
GB	1621446.2	16 December 2016	IL-11 ANTIBODIES
GB	1709535.7	15 June 2017	IL-11 ANTIBODIES
GB	1621439.7	16 December 2016	IL-11RA ANTIBODIES
GB	1621431.4	16 December 2016	DECOY CYTOKINE RECEPTOR

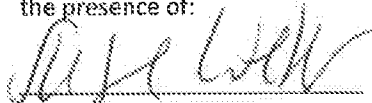
**Part 2: Completion Applications**

Country/region	Application No.	Application Date	Title
WO	PCT/EP2017/083032	15 December 2017	DECOY CYTOKINE RECEPTOR
WO	PCT/EP2017/083043	15 December 2017	IL-11RA ANTIBODIES
WO	PCT/EP2017/083051	15 December 2017	IL-11 ANTIBODIES
US	15/843212	15 December 2017	IL-11RA ANTIBODIES
US	15/843173	15 December 2017	IL-11 ANTIBODIES
TW	106144202	15 December 2017	IL-11RA ANTIBODIES
TW	106144224	15 December 2017	IL-11 ANTIBODIES

**Part 3: Identification of some, but not necessarily all, patent applications falling within the  
scope of clause 2 of this Assignment**

Country/region	Application No.	Application Date	Title	Signature for Mewburn Ellis LLP

Executed by SEBASTIAN SCHAEFFER in  
the presence of:



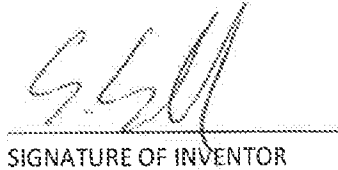
SIGNATURE OF WITNESS

NAME: *Susanne Weber*


ADDRESS: *76 Shenton Way, #24-04 76 Shenton Way, Singapore 078719*

OCCUPATION: *Operations Manager*

DATE: *17/04/18*

  
SIGNATURE OF INVENTOR

Executed by the NATIONAL HEART  
CENTRE OF SINGAPORE acting by  
\_\_\_\_\_, an authorised  
representative, in the presence of:

  
SIGNATURE OF WITNESS

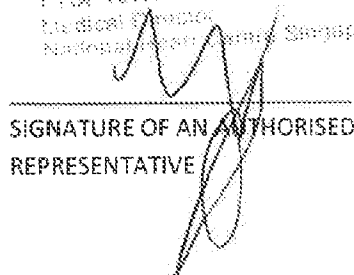
NAME:

ADDRESS: *Sophie Yang*  
*Executive*

OCCUPATION: *Research Administration &  
Development Office*

DATE: *30/05/18*  
*National Heart Centre Singapore*

*Prof Terence CHUA*  
*Medical Director*  
*National Heart Centre Singapore*

  
SIGNATURE OF AN AUTHORISED  
REPRESENTATIVE

Executed by the NATIONAL  
UNIVERSITY OF SINGAPORE acting by  
Prof Thomas Coffman, an authorised  
representative, in the presence of:

[Signature]  
SIGNATURE OF WITNESS  
NAME: Cynthia Chew  
ADDRESS:  
OCCUPATION: Executive, Duke-NUS  
DATE: 7 Jun 2018 Medical School

[Signature]  
SIGNATURE OF AN AUTHORISED  
REPRESENTATIVE

Thomas M. COFFMAN M.D.  
Dean  
Duke-NUS Medical School

Executed by SINGAPORE HEALTH  
SERVICES PTE LTD acting by  
[Signature], an authorised  
representative, in the presence of:

[Signature]  
SIGNATURE OF WITNESS  
NAME: Koh Choon Heng  
ADDRESS: Assistant Director  
SingHealth Intellectual Property (SHIP)  
Singapore Health Services Pte Ltd  
OCCUPATION:  
DATE: May 24, 2018

[Signature]  
ENNY MESWORO  
Chief Operating Officer, Research  
Singapore Health Services PTE LTD  
SIGNATURE OF AN AUTHORISED  
REPRESENTATIVE