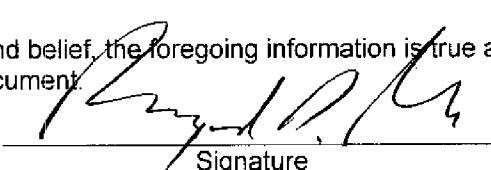


Client Code: ALBAN22.001AUS

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): List using letters or numbers for multiple parties</p> <p>NTU VENTURES PRIVATE LIMITED</p> <p>Additional name(s) of conveying party(ies) attached?</p> <p>( ) Yes (X) No</p>	<p>2. Name and address of receiving party(ies):</p> <p><b>Name:</b> NANYANG TECHNOLOGICAL UNIVERSITY</p> <p><b>Internal Address:</b></p> <p><b>Street Address:</b> 50 Nanyang Avenue</p> <p><b>City:</b> Singapore <b>State:</b></p> <p><b>ZIP:</b> 639798</p> <p>Additional name(s) of receiving party(ies) attached?</p> <p>( ) Yes (X) No</p>
<p>3. Nature of conveyance:</p> <p>(X) Assignment ( ) Security Agreement</p> <p>( ) Merger ( ) Change of Name</p> <p>( ) Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures)</p> <p>September 8, 2008</p>	<p>4. US or PCT Application number(s) or US Patent number(s):</p> <p>(X) Patent Application No.: 10/279,627</p> <p>Filing Date: October 24, 2002</p> <p>Additional numbers attached?</p> <p>( ) Yes (X) No</p>
<p>5. Party to whom correspondence concerning document should be mailed:</p> <p><b>Customer No.</b> 20,995</p> <p><b>Address:</b> Knobbe, Martens, Olson &amp; Bear, LLP 2040 Main Street, 14<sup>th</sup> Floor Irvine, CA 92614</p> <p><b>Return Fax:</b> (949) 760-9502</p> <p><b>Attorney's Docket No.:</b> ALBAN22.001AUS</p>	<p>6. Total number of applications and patents involved: 1</p>
<p>7. Total fee (37 CFR 1.21(h)): \$40</p> <p>(X) Authorized to be charged to deposit account</p>	<p>8. Deposit account number: 11-1410</p> <p>Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p>
<p>9. Statement and signature.</p> <p>To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.</p> <p><u>Raymond D. Smith</u>  <u>11 December 2018</u></p> <p>Name of Person Signing Signature Date</p> <p>55,634</p> <p>Registration No.</p> <p>Total number of pages including cover sheet, attachments and document: 5</p>	

Documents transmitted via Facsimile to be recorded with required cover sheet information to:

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112508

700393664

**PATENT**  
**REEL: 021975 FRAME: 0510**

CH \$40.00 111410 10279627

**DATED THIS 8th DAY OF SEPTEMBER 2008**

**Between**

**NTU VENTURES PRIVATE LIMITED**

**And**

**NANYANG TECHNOLOGICAL UNIVERSITY**

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**ASSIGNMENT**

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**THIS ASSIGNMENT** is made the 8th day of September 2008 BETWEEN

- (1) **NTU VENTURES PRIVATE LIMITED** (Company Registration No.199502518G), a company incorporated in Singapore and having its registered address at 15 Phillip Street #10-10, Singapore 048694 (the "Assignor"),

AND

- (2) **NANYANG TECHNOLOGICAL UNIVERSITY** (Company Registration No. 200604393R), a company incorporated in Singapore and located at 50 Nanyang Avenue, Singapore 639798 (the "Assignee").

**WHEREAS:**

- (A) The Assignor is the owner of the inventions:

(i) Sample Preparation Integrated Chip (SPIC), including inventions relating to the SPIC technology arising from the National Science and Technology Board BioMEMS Project No. NSTB/43/11/4-1: Development and Application of Integrated DNA Microdevices in Biology and Medicine; and

(ii) A Method for detecting Disease;

(hereinafter collectively referred to as the "Inventions");

and the owner of the granted patents and patent applications on the Inventions (hereinafter referred to as the "Patents"), as listed in Schedule 1 to this Assignment.

- (B) The Assignor has agreed to assign its rights, title and interest in the Inventions and the Patents to the Assignee.

**NOW THEREFORE** the parties agree as follows:

1. In consideration of Singapore Thirteen Thousand Dollars (S\$13,000.00), the receipt and sufficiency of which is hereby acknowledged by the Assignor, the Assignor hereby assigns and transfers to the Assignee, the Assignor's full and exclusive benefit and entire right, title and interest throughout the world in and to:

(a) the Inventions;

(b) the Patents and all other patent applications that shall be filed in Singapore and all foreign countries on the Inventions, and in and to all original patents that have been or shall be issued in Singapore and all foreign countries on the Inventions, and in and to all rights of priority resulting from the filing of the Patents (hereinafter referred to as the "Patent Rights");

(c) all rights and powers arising or accrued from the assigned intellectual property rights hereunder, including the right to recover and take all such proceedings as may be necessary for the recovery of damages and/or other remedies in respect of all infringements whether committed before or after the date of this Assignment and to have the benefit of any remedy obtained on any infringement or alleged infringement before the date of this Assignment.

- 2 The Assignor agrees that the Assignee may apply for and receive patents for the Inventions in its name, and that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this Assignment, the Assignor will execute all rightful oaths, assignments, powers of attorney, and other papers and generally assist the Assignee in securing and maintaining proper patent protection for the Inventions and for vesting title to the Inventions and all Patent Rights in the Assignee.
3. In this Assignment, except where the context indicates the contrary:
- 3.1 words importing the singular shall include the plural and vice versa, and words denoting a given gender shall include each other gender; and
- 3.2 all schedules and attachments to this Assignment form part of this Assignment.
4. This Agreement shall be governed by the laws of Singapore and the parties hereby submit to the exclusive jurisdiction of the courts of Singapore.

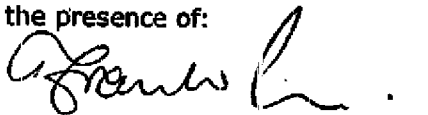
**IN WITNESS WHEREOF** the parties have hereto set their hands the day and year first above written.

SIGNED by

For and behalf of

**NTU VENTURES PRIVATE LIMITED**

in the presence of:



Name: Frankie Lee  
Designation: Director, Business and Finance

Name: Rosa Kang  
Designation: Chief Executive Officer

SIGNED by

For and behalf of

**NANYANG TECHNOLOGICAL  
UNIVERSITY**

in the presence of:



Name: Karen Teo Soo Ling  
Designation: Senior Manager, ITTO

Name: Alex Yu Hou Cheong  
Designation: Director, ITTO

**SCHEDULE 1****PATENTS**

Invention: Sample Preparation Integrated Chip

ITTO Ref: TD/2324/01

<b>Title</b>	<b>Country</b>	<b>Application Number / Patent Number</b>	<b>Filing Date / Grant Date</b>
Sample Preparation Integrated Chip	USA	10/279,627 / 7,338,760	24 Oct 2002 / 4 Mar 2008
Integrated Fluidic Device for Sample Preparation and Assay	PCT	PCT/SG02/00251	25 Oct 2002
Integrated Fluidic Device for Sample Preparation and Assay	Singapore	200401985-7 / 105620	25 Oct 2002 (International Filing Date) / 31 May 2006
Integrated Fluidic Device for Sample Preparation and Assay	EPO	02802084.0	25 Oct 2002 (International Filing Date)
Integrated Fluidic Device for Sample Preparation and Assay	Japan	2003-537788	25 Oct 2002 (International Filing Date)

Invention: A Method for Detecting Disease

ITTO Ref: TD/2323/01

<b>Title</b>	<b>Country</b>	<b>Application Number / Patent Number</b>	<b>Filing Date / Grant Date</b>
A Method for Detecting Disease	USA	10/279,628	24 Oct 2002
A Method for Detecting Disease Using a Fluidic Device	PCT	PCT/SG02/00252	25 Oct 2002
A Method for Detecting Disease Using a Fluidic Device	Singapore	200402011-1/ 107694	25 Oct 2002 (International Filing Date) / 31 May 2006
A Method for Detecting Disease Using a Fluidic Device	EPO	02778182.2	25 Oct 2002 (International Filing Date)