

PATENT ASSIGNMENT

WHEREAS, we

Peter W. Zandstra, an individual having an address at 2209 Dunbar St., Vancouver, British Columbia, V6R 3M8, Canada; and

Asel Primbetova, an individual having an address at 4517 West 4th Avenue Vancouver, BC V6R 1R4 Canada,

(hereinafter referred to as the "**Assignors**"), are the inventors of an Invention (as defined below) together with co-inventors Alexander Baker ("**Baker**") and Molly Shoichet ("**Shoichet**") (each of whom has assigned their rights in the Invention to The Governing Council of the University of Toronto), and have made certain inventions and discoveries disclosed and/or described in:

United States Provisional Patent Application Serial No. **63/603, 323** entitled **Functionalized Hydrogels and Methods of Use**, filed in the United States on November 28, 2023; and

PCT International Patent Application No. PCT/CA2024/051591 entitled **Functionalized Hydrogels and Method of Use in T-Cell Differentiation**, filed in the Canadian Receiving Office of the World Intellectual Property Organization on November 28, 2024.

(hereinafter referred to as the "**Invention**");

AND WHEREAS, the Assignors hereby confirm that the Invention was made or was authorized be made by themselves (together with Baker and Shoichet) and that they believe themselves to be the original inventors or joint inventors of the Invention.

AND WHEREAS, **The University Of British Columbia**, having an address at University-Industry Liaison Office, 103-6190 Agronomy Road, Vancouver, British Columbia, V6T 1Z3, Canada (hereinafter referred to as the "**Assignee**"), is desirous of acquiring our entire right, title, and interest in and to the Invention, and any improvements thereto, inclusive of any and all priority rights derived therefrom for any and all countries in the world; and in and to any and all Letters Patent issuing in any and all countries in the world, to be granted for the Invention, and any improvements thereto;

NOW, THEREFORE, in consideration and recognition of the foregoing premises, and for the sum of One Dollar (\$1.00), and other good and valuable consideration monetary and non-monetary, the receipt and sufficiency of which is hereby acknowledged by the Assignors and Assignees, we the Assignors, herein confirm and herein do hereby sell, assign, transfer, and set

over absolutely unto the Assignee, its successors and assigns, our entire and exclusive right, title, and interest in and to:

- (a) the Invention and any improvements thereto, worldwide;
- (b) any and all patent applications for the Invention, and any improvements thereto, in any and all countries in the world, including the application(s) identified herein and any divisions, extensions, continuations, continuations-in-part, provisionals, non-provisionals, substitutions and renewals thereof and all priority rights and rights to claim priority derived therefrom, as well as any and all patent applications and any divisions, extensions, continuations, continuations-in-part, provisionals, non-provisionals, substitutions and renewals thereof filed in any country claiming priority from the application(s) identified herein;
- (c) all Letters Patent which may be granted therefor in any and all countries in the world, and in and to any and all renewals, extensions, reissues, re-examinations, substitutions, or prolongations thereof, including patent term adjustments and supplementary protections; and
- (d) the exclusive right to bring and/or participate in any proceeding for infringement or any other actionable right under all of the foregoing and to receive all remedies that arise therefrom, to the end of the term for which said Letters Patent may be granted,

the same to be held and enjoyed by the Assignee, its successors and assigns, to the full end of the term or terms for which said Letters Patent, or renewals, extensions, reissues, re-examinations, substitutions, or prolongations thereof may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors had this Assignment not been made;

AND we, the Assignors, hereby agree that, upon request, and without further consideration, but at the expense of the Assignee, we will communicate to the Assignee or its representatives or nominees any facts known to me respecting the Invention, and any improvements thereto, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, reissue and other applications, make all rightful oaths and generally aid the Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection that may arise from the Invention, and any improvements thereto, in all countries, and we further agree to execute any and all further papers which may be necessary or desirable to vest or perfect the title of the Assignee, its successors and assigns, in and to the Invention, and any improvements thereto, and in and to any and all patent applications for the Invention, and any improvement thereto, and in and to any and all Letters Patent therefrom, or any renewals,

extensions, reissues, re-examinations, substitutions, or prolongations thereof, which may be granted upon application in any and all countries in the world;

AND we, the Assignors, hereby authorize and request any official whose duty it is to issue patents, to issue each and every Letters Patent to be granted upon the Invention and any and all patent applications for the Invention, including any improvements thereto, in any and all countries, and each and every renewal, extension, reissue, re-examination, substitution, or prolongation of said Letters Patent, to the Assignee, its successors and assigns, as the assignee of our entire right, title and interest therein, in accordance with this assignment.

The undersigned Assignors hereby authorizes the Assignee or their designated patent agents to correct errors in this Assignment or to insert any further identification or other information necessary or desirable to make this Assignment suitable for recordal in any country, including any application, updating titles and patent numbers and dates.

This Assignment may be signed and delivered by the Parties in counterparts, with the same effect as if each of the Parties had signed and delivered the same document, and that execution and delivery will be valid and legally effective. Further, this Assignment and any counterpart may be: (i) signed by manual, digital or other electronic signatures; and (ii) delivered or transmitted by any digital, electronic or other intangible means, including by e-mail or other functionally equivalent electronic means of transmission, and that execution, delivery and transmission will be valid and legally effective to create a valid and binding agreement between the Parties.

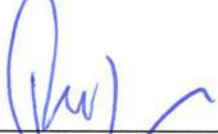
This assignment made effective immediately.

[Signature Page(s) Follow]

EXECUTED at Vancouver, British Columbia, this 4 day December, 2024.

ASSIGNOR:

Witness Signature:



Peter W. Zandstra

Print Witness

Name: Maddy Angus

EXECUTED at Vancouver, British Columbia, this _____ day of _____, 2024.

ASSIGNOR:

Witness Signature:

Asel Primbetova

Print Witness

Name: _____

EXECUTED at Vancouver, British Columbia, this _____ day of _____, 2024.

ASSIGNOR:

Witness Signature:

Peter W. Zandstra

Print Witness

Name: _____

EXECUTED at Vancouver, British Columbia, this 28 day of November 2024.

ASSIGNOR:

Witness Signature:

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Asel Primbetova



Print Witness
Name: Sitong Li

ACKNOWLEDGED AND ACCEPTED at Vancouver, BC, this 5th day of
December, 2024.

ASSIGNEE

The University of British Columbia

By Brett Sharp
B85C2DBAD3CA474...

Name: Brett Sharp
(Please Print)

Title: Associate Director UBC UILO
(Please Print)

"I have the authority to sign on behalf of the Assignee"

Certificate Of Completion

Envelope Id: 43631476-1C7C-4EB3-AF02-87B4741B8BCC	Status: Completed
Subject: Complete with Docusign: UBC_Licence_Agreement_UPDATED.pdf (10-103) 20-111 PCT Assignment	
Source Envelope:	
Document Pages: 54	Signatures: 2
Certificate Pages: 1	Initials: 0
AutoNav: Enabled	Envelope Originator:
Envelopeld Stamping: Enabled	Laurie McBeth
Time Zone: (UTC-08:00) Pacific Time (US & Canada)	103 – 6190 Agronomy Road
	Vancouver, BC V6T 1Z3
	laurie.mcbeth@uilo.ubc.ca
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Signer Events

Signature	Timestamp
Brett Sharp Brett.Sharp@uilo.ubc.ca Associate Director UBC UILO The University of British Columbia Security Level: Email, Account Authentication (None)	Sent: 12/5/2024 11:00:12 AM Resent: 12/5/2024 2:39:37 PM Viewed: 12/5/2024 2:40:23 PM Signed: 12/5/2024 2:41:55 PM

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Editor Delivery Events

Status	Timestamp
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Status	Timestamp
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Intermediary Delivery Events

Status	Timestamp
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Certified Delivery Events

Status	Timestamp
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Carbon Copy Events

Status	Timestamp
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Witness Events

Signature	Timestamp
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Notary Events

Signature	Timestamp
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Envelope Summary Events

Status	Timestamps
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Certified Delivered	12/5/2024 2:40:23 PM
Signing Complete	12/5/2024 2:41:55 PM
Completed	12/5/2024 2:41:55 PM

Payment Events

Status	Timestamps
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