

## 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>
David M. Langenau	12/14/2017
Jessica Susanne Blackburn	12/18/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	The General Hospital Corporation
<b>Street Address:</b>	55 Fruit Street
<b>City:</b>	Boston
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02114
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14903940
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
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<b>Phone:</b>	+1 (617) 956-5936
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<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	00786-0893US1
<b>NAME OF SUBMITTER:</b>	CHRISTINE M. GRACE
<b>SIGNATURE:</b>	/Christine M. Grace/
<b>DATE SIGNED:</b>	03/20/2018
<b>Total Attachments: 4</b>	
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ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, DAVID M. LANGENAU, and JESSICA SUSANNE BLACKBURN, each individually assign to THE GENERAL HOSPITAL CORPORATION, a corporation formed under the laws of Massachusetts and having a principal place of business at 55 Fruit Street, Boston, MA 02114, and its successors, transferees, and assignees (collectively the “Assignee”), all of our individual and joint right, title, and interest throughout the world in the subject matter (the “Subject Matter”) of a patent application that names us as inventors, is titled “IMMUNE-COMPROMISED ZEBRAFISH,” and was filed in the United States Patent and Trademark Office on January 8, 2016, as application 14/903,940 (the “Application”).

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors’ certificates for, any of the Subject Matter (collectively the “Applications and Granted Rights”) in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee’s name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee’s name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and

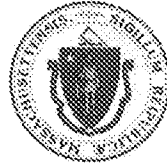
documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

*David M. Langenau*  
David M. Langenau

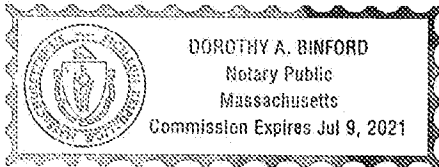
DATE: 12/14/2017

The Commonwealth of Massachusetts

*Suffolk* ss.



On this 14<sup>th</sup> day of December, 2017, before me, the undersigned notary public, personally appeared DAVID M. LANGENAU, proved to me through satisfactory evidence of identification, which were MA LICENSE, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that DML signed it voluntarily for its stated purpose.



*Dorothy A. Binford*  
Notary Public

Jessica S Blackburn  
Jessica Susanne Blackburn

DATE: 12/18/17

The Commonwealth of Massachusetts



\_\_\_\_\_ ss.

On this 18<sup>th</sup> day of December, 2017, before me, the undersigned notary public, personally appeared Jessica Susanne Blackburn, proved to me through satisfactory evidence of identification, which were Driver's license, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that Jessica signed it voluntarily for its stated purpose.

[Signature]  
Notary Public

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EXP. 12/15/2020

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: THE GENERAL HOSPITAL CORPORATION

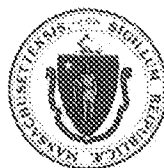
Signature: [Handwritten Signature] Date: 12/18/17

Name: Bruce Tedeschi Bruce W. Tedeschi, PhD, JD  
Director, Innovation

Title: Director of IP The General Hospital Corporation

The Commonwealth of Massachusetts

Middlesex ss.



On this 18th day of December, 2017 before me, the undersigned notary public, personally appeared Bruce W. Tedeschi, proved to me through satisfactory evidence of identification, which were Driver's License, to be the person(s) whose name(s) is/are signed on the preceding or attached document, and acknowledged to me that HE signed it voluntarily for its stated purpose.

[Handwritten Signature]  
Notary Public

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