

## 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>
TAI GYU KIM	04/22/2019
HYUN JUNG SOHN	04/22/2019
CHEOL HWA HONG	04/22/2019
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<b>Name:</b>	THE CATHOLIC UNIVERSITY OF KOREA INDUSTRY-ACADEMIC COOPERATION FOUNDATION
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<b>City:</b>	SEOUL
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	06591
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16465933
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<b>ATTORNEY DOCKET NUMBER:</b>	10820-018US1
<b>NAME OF SUBMITTER:</b>	KIRSTEN L. SVENSON
<b>SIGNATURE:</b>	/Kirsten L. Svenson/
<b>DATE SIGNED:</b>	05/31/2019
<b>Total Attachments: 3</b>	
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ASSIGNMENT

For valuable consideration, we, **Tai Gyu KIM** of Seoul, Korea; **Hyun Jung SOHN** of Seoul, Korea; **Cheol Hwa HONG** of Seoul, Korea hereby assign to **THE CATHOLIC UNIVERSITY OF KOREA INDUSTRY-ACADEMIC COOPERATION FOUNDATION**, a corporation of Korea, having a place of business at Catholic Univ. of Korea Songeui Campus, 222, Banpo-daero, Seocho-gu, Seoul 06591, Korea, and its successors and assigns (collectively hereinafter "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements that are subject of an application for United States Patent titled "ARTIFICIAL ANTIGEN-PRESENTING CELL PREPARED FROM HLA-NULL CELL LINE BY USING MULTIPLEX CRISPR-CAS9 SYSTEM AND USE THEREOF" filed May 31, 2019 and assigned U.S. Patent Application No. 16/465,933. [We authorized Meunier Carlin & Curfman LLC the rights to make the necessary changes to the assignment before filing which will include the Application Number and Filing Date] which is a filing under 35 USC §371 of PCT Serial Number PCT/KR2017/014027 filed December 1, 2017, which claims priority to Korean Patent Application No. 10-2016-0163509 filed December 2, 2016; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: April 22, 2019

Tai Gyu Kim

Name: Tai Gyu KIM

**WITNESSED BY:**

Suhee park  
Signature

Date: April 22, 2019

Suhee PARK  
Type or Printed Name

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Date: April 22, 2019

Hyun Jung Sohn

Name: Hyun Jung SOHN

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Date: April 22, 2019

Cheol-Hwa Hong  
Name: Cheol Hwa HONG

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