

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | BYEONG-CHEL LEE | 12/12/2014 |
| RECEIVING PARTY DATA | | |
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| State/Country: | PENNSYLVANIA | |
| Postal Code: | 15260 | |
| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
| | Application Number: | 15239614 |
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| DATE SIGNED: | 08/23/2021 | |
| Total Attachments: 3 | | |
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WORLDWIDE ASSIGNMENT

WHEREAS,

BYEONG-CHEL LEE, a citizen of the United States, and whose post office address is 9008 pembroke Court, Pittsburgh, PA 15237; (hereinafter referred to as "ASSIGNORS"), invented a new invention as disclosed in a provisional patent application entitled "**URIDINE DIPHOSPHATE COMPOUNDS AS MOBILIZERS OF HEMATOPOIETIC PROGENITOR CELLS**", , which

- ☐ is being filed concurrently with the recordation of this Assignment.
- ☒ Provisional Application was filed on March 30, 2012 as Application No 61/618,173.
- ☒ United State Patent Application was filed on September 24, 2014, as Application No. 14/495,663.
- ☒ the PCT Application was filed on March 28, 2013 as Application No. PCT/US13/34452.

WHEREAS, **UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION**, a corporation organized and existing under the laws of the United States, having its principal place of business at **200 Gardner Steel Conference Center, Thackeray & O'Hara Streets, Pittsburgh, Pennsylvania 15260** (hereinafter referred to as "ASSIGNEE"), is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR has sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under said invention and said United States provisional application or said application for United States Letters Patent, as the case may be, and said invention in all applications claiming priority thereto or converted therefrom, and all divisions, renewals, continuations and continuations-in-part thereof, and all Patents of the United States which may be granted thereon and all reissues, reexaminations and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries other than the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said applications above under the Patent Laws of the United States, the International Convention for

the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

ASSIGNOR hereby authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

ASSIGNOR hereby covenant and agree that ASSIGNOR has full right to convey the entire right, title and interest herein assigned, that such right, title and interest is unencumbered, and that ASSIGNOR has not executed, and will not execute, any agreement in conflict herewith;

ASSIGNOR further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, legal representatives and assigns;

ASSIGNOR further covenant and agree that ASSIGNOR will communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, reexamination, foreign applications or other such Letters Patent, make all rightful oaths, and generally do everything possible to aid ASSIGNEE or, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries;

ASSIGNOR hereby authorize ASSIGNEE's patent attorney to complete this form by the addition of the application number, application filing date, and attorney docket number, if necessary.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 12th day of December, 2014.



Byeong-Chel Lee

Witness: M. Lynnette Robinson [signature]

M. Lynnette Robinson [name]

Witness: Parkett [signature]

BAE HANG PARK [name]