OPTION AGREEMENT

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| | University | owns | certain | intellectual developed | property by | pertaining to |
| spe Rig in I and dire Ext | cifically describe hts also shall inc Exhibit A and from foreign continuented to subject whibit A. Company describe the use of such P | d in Exhibit alude (a) Union divisional divi | A attached he ted States and continuivisional applicably described of time in werefor, and in . | ertain [patents ereto and made and foreign patent nuations of these plications, and ribed in the U.S. which to evaluate a which to elect | or patent ap a part hereof ("Pate is issued from the e applications and of the resulting and foreign a the Patent Right to negotiate a lice | plications] as more atent Rights"). Paten he applications listed and (b) claims of U.S. g patents, which are applications listed in the applications listed in the applications listed in the applications contained covenants contained at the applications of the applications listed in the applications listed in the applications listed in the applications are applications at the applications are applications. |
| her | ein, and intending | | | | | |
| 1) | exclusive license Option Term, as Rights for intern United States g | e to the Pate defined belo al research a overnment p not offer a li | ent Rights ir ow in paragra and evaluation oursuant to cense to the | the Field of _ uph 2, Company on purposes only 35 U.S.C. §200 Patent Rights in | shall have the ry. Subject to the late, et seq. during the Field set for | te a royalty-bearing option"). During the right to use the Paten e rights, if any, of the g the Option Term of the above to any third |
| 2) | of this Option A sooner terminate to University that approval from U breach of its ob Option for anoth of to the termination an Option Extension A sooner termination and the sooner termination of to the termination and option Extension A sooner termination and the sooner termination of to the termination and the sooner termination and the sooner termination of to the sooner terminate to University that approval from U breach of its object. | agreement to d by the execute this Option niversity, no ligations her aer six (6) m , 20XX, by g on of the first asion Fee in aust accompa | o 5:00 p.m. or creise of the a Agreement of to be unreaded to be u | On theOption hereundon is terminated ('sonably withher Company may on Extension''), in writing to Unod and upon particle of Five Thousage and such amounts. | day ofer or the written 'Option Term') ld, and so long a extend the term until 5:00 p.m. niversity ten (10 yment to Unive nd Dollars (\$50 | extend from the date, 20XX unless in notice by Company. Upon prior written is it is not in materia in for exercise of the on the day 0) business days prior rsity by Company o 000.00). The Option-refundable and non |

- 3) In consideration of the Option granted hereunder, Company agrees to reimburse University for all of University's out-of-pocket filing, prosecution, and maintenance costs (including all attorneys' fees and costs), for any and all patent prosecution actions that were taken during the Option Term and/or Option Extension and for all actions that will be taken by patent counsel after the Option Term and/or Option Extension but in response to any instructions that were sent during the Option Term and/or Option Extension from University to patent counsel relating to the Patent Rights. University shall invoice Company for all such attorneys' fees and costs. Company shall pay such invoices within thirty (30) days after receipt thereof from University. The amount of such payments shall not be creditable toward license consideration.
- 4) Company may exercise the Option upon written notice to University during the Option Term or Option Extension after successful completion of the following milestones: (1) creation or identification of an entity to commercialize the Patent Rights; (2) a minimum of Dollars (\$XXX,000) in debt, convertible debt, or equity investment in the entity; (3) development of a comprehensive commercialization plan for development and commercialization of the Patent Rights, including the identification of a qualified management team for the entity to commercialize the Patent Rights, and (4)_ Upon University's receipt of such written notice, the parties agree, within a ninety (90) day period, to negotiate in good faith to attempt to establish the terms of a license agreement granting Company exclusive rights to make, have made, use and sell products in the Field under the Patent Rights ("Negotiation Period"). Such license agreement shall include at least the following provisions: license fee, annual maintenance payments, royalty payments, minimum royalties, milestone payments (where applicable), payment of all past and future costs incurred by University associated with the prosecution and maintenance of the Patent Rights, the right to grant sublicenses upon written approval, a commitment by Company to exert their best efforts to commercialize and make available licensed products as rapidly as practicable, the right of University to terminate the license agreement should Company not meet specified due diligence milestones, and indemnity and insurance provisions with limits satisfactory to University. Notwithstanding anything in this Option Agreement to the contrary, the exercise of the Option hereunder by Company shall only require the parties to negotiate in good faith to attempt to enter into a license, and shall not require either party to enter into such a license unless the terms and conditions for such license are mutually agreeable. If such license agreement has not been executed within the Negotiation Period, this Option Agreement shall be deemed terminated and University shall be free to enter into an exclusive or non-exclusive license to the Patent Rights with any other company. The Company acknowledges that the role of any University faculty in the Company must be approved by the University of Pittsburgh Conflict of Interest Committee prior to execution of any license agreement.
- 5) During the Option Term and any Option Extension, University shall take all actions to prosecute and maintain the Patent Rights and may seek additional patent protection for the Patent Rights in the United States and/or in international markets. University shall provide the Company a reasonable opportunity to advise, comment, and propose modifications to any material patent prosecution and maintenance action taken, which advice, comments, and proposals shall be considered in good faith by University.

If Company does not exercise its Option, Company shall nevertheless be liable to University for University's out-of-pocket filing, prosecution and maintenance costs (including attorneys' fees), incurred during the Option Term and/or Option Extension.

If Company does exercise its Option but a license agreement has not been executed within the Negotiation Period, Company shall nevertheless be liable to University for University's out-of-pocket filing, prosecution and maintenance costs (including attorneys' fees), incurred during the Option Term and/or Option Extension and the Negotiation Period.

- 6) Company and University agree that any information disclosed by either party to the other party pursuant to this Option Agreement shall be maintained in strict confidence, and each will use all reasonable diligence to prevent disclosure except to necessary personnel and to affiliates and consultants who agree to be bound by this confidentiality provision. Company's and University's obligations under this confidentiality clause shall remain in effect for the Option Term and a period of five (5) years thereafter. Company and University shall not have any obligation of confidentiality with respect to information that:
 - a) is in the public domain by use and/or publication at the time of its receipt from the disclosing party; or
 - b) is developed independently of information received from the disclosing party; or
 - c) was already in the recipient's possession prior to receipt from disclosing party; or
 - d) is properly obtained by recipient from a third party with a valid legal right to disclose such information and such third party is not under a confidentiality obligation to the disclosing party.
- 7) UNIVERSITY, AND ITS AGENTS AND/OR EMPLOYEES, MAKE NO REPRESENTATION AND EXTEND NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR VALIDITY OF PATENT CLAIMS, ISSUED OR PENDING, WITH RESPECT TO THE PATENT RIGHTS.
- 8) This Option Agreement is not assignable and any attempt to do so shall be null and void.
- 9) All notices required to be given under this Option Agreement shall be in writing and shall be deemed to have been sufficiently given for all purposes thereof when sent by facsimile or mailed by first class or overnight mail and shall be evidenced by a facsimile transmission confirmation, by the postmark at the point of mailing or by the time-stamped receipt of the overnight carrier.

All notices and any correspondence respecting this Option Agreement shall be addressed and sent out as follows:

To University:

Innovation Institute
University of Pittsburgh
1st Floor Gardner Steel Conference Center
130 Thackeray Avenue
Pittsburgh, PA 15260
ATTN: Director

| To Con | npany: | | | |
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- 10) If Company fails to perform any of its obligations hereunder, University shall have the right to terminate this Option Agreement upon thirty (30) days written notice. If Company has not corrected its non-performance within such thirty (30) days, this Option Agreement is terminated and University shall have no further obligation to Company with respect to the Patent Rights. The obligation of Sections 5 and 6 shall survive the termination of this Option Agreement and University shall have no obligation to prorate or reimburse Company for any amounts paid by Company or remaining due to the University under this Option Agreement.
- 11) The balance of any payments pursuant to this Option Agreement which are overdue shall bear interest, compounded monthly, calculated from the due date until payment is received at the rate of eight percent (8%) per annum. Payment of such interest by Company shall not negate or waive the right of University to seek any other remedy, legal or equitable, to which it may be entitled because of the delinquency of any payment, including, but not limited to, recovering legal and collection fees and termination of this Option Agreement as set forth in Paragraph 10 of this Option Agreement. Any cash payments made to the University by wire transfer shall be directed as follows

Bank: Mellon Bank, NA, Pittsburgh, PA

ABA Routing No.: 043000261-University of Pittsburgh

Account No.: 0015510

Mellon SWIFT Code: MELNUS3P (international transfers)

Reference Code: Innovation Institute, Account -

lipriebe@innovation.pitt.edu - (412) 648-2241

The Company shall be responsible for all applicable fees and costs relating to any wire transfer (including, but not limited to, any applicable wire transfer, transaction, and/or foreign translation fees), without any deduction of such fees from amounts due to the University pursuant to this Option Agreement.

12) Nothing contained in this Option Agreement shall be construed as conferring upon either party any right to use in advertising, publicity or other promotional activities any name, trade name, trademark, or other designation of the other party, including any contraction, abbreviation, or simulation of any of the foregoing. Without the express written approval of the other party, neither party shall use any designation of the other party in any promotional activity associated

with this Option Agreement. Neither party shall issue any press release or make any public statement in regard to this Option Agreement without the prior written approval of the other party.

- 13) This Option Agreement shall be construed and the rights of the parties determined by the laws of the Commonwealth of Pennsylvania and the forum for any action relating hereto, including those brought against individuals such as University employees and/or agents, shall be the Courts of Allegheny County, Pennsylvania, or, if in a federal proceeding, in the United States District Courts for the Western District of Pennsylvania.
- 14) The parties acknowledge that they consulted, or had the opportunity to investigate and/or consult, with their legal counsel and/or other advisors with respect to the Patent Rights and the terms of this Option Agreement.
- 15) Company agrees that with respect to the performance of this Option Agreement or the practice of the rights granted by the University hereunder, it shall comply with any and all applicable United States export control laws and regulations, as well as any and all embargoes and/or other restrictions imposed by the Treasury Department's Office of Foreign Asset Controls.
- 16) The parties acknowledge that this Option Agreement sets forth the entire understanding and intentions of the parties hereto as to the subject matter hereof and supersedes all previous representations, negotiations, or understandings between the parties and/or its employees or agents, whether written or oral, regarding the subject matter of this Option Agreement. No subsequent modification hereof shall be made except in a writing executed by University and Company.

[The remainder of this page is left intentionally blank.]

IN WITNESS WHEREOF, the parties represent and warrant that each has the authority to bind the Party to this Option Agreement and have executed this Option Agreement on the date set forth in the first paragraph hereof.

UNIVERSITY OF PITTSBURGH – OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION

| By: |
|---|
| Evan Facher, Ph.D., MBA |
| Interim Director |
| University of Pittsburgh Innovation Institute |

(COMPANY)

By:

Name:

Title:

EXHIBIT A PATENT RIGHTS FOR OPTION AGREEMENT BETWEEN THE UNIVERSITY OF PITTSBURGH AND [COMPANY]

| Univ. Case No. | Application No. | Application Filing Date | Patent No. | Patent Issuance Date | Title | Country |
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