



Lineage Cell Therapeutics Announces Issuance of U.S. Patent for System for Generating Immunogenic Dendritic Cells

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CARLSBAD, Calif.--(BUSINESS WIRE)--Aug. 26, 2019-- [Lineage Cell Therapeutics, Inc.](#) (NYSE American and TASE: LCTX), a clinical-stage biotechnology company developing novel cell therapies for unmet medical needs, announced today that the United States Patent and Trademark Office (USPTO) has issued U.S. Patent No. 10,344,262, for a system for production of antigen presenting dendritic cells from human embryonic stem cells (hESCs). The claimed system and cell populations involve culturing cells in a serum-free medium utilizing factors including bone morphogenetic protein-4 (BMP-4), granulocyte macrophage-colony stimulating factor (GM-CSF), stem cell factor (SCF) and vascular endothelial growth factor (VEGF) to generate hESC-derived mature dendritic cells.

"The issuance of this patent is important because the allowed claims support our differentiation process for the production of [VAC2](#), our allogeneic, or "off-the-shelf" cancer immunotherapy program, currently being tested in a Phase I clinical trial in subjects with non-small cell lung cancer," stated Brian M. Culley, Chief Executive Officer of Lineage. "VAC2 is produced from pluripotent cell technology to generate a population of mature dendritic cells, which are utilized because of their potent antigen presenting ability which instructs the body's immune system to attack and eliminate harmful pathogens and unwanted cells. VAC2 is specifically designed to stimulate a patient's immune response to a tumor antigen commonly expressed in cancerous cells but rarely found in normal adult cells. We are fortunate that the VAC2 trial is being fully-funded and conducted by [Cancer Research UK](#), the world's largest independent cancer research charity. Patient enrollment will continue throughout 2019 and we expect to have immunogenicity data on the initial set of patients later this year."

About Lineage Cell Therapeutics, Inc.

Lineage Cell Therapeutics is a clinical-stage biotechnology company developing novel cell therapies for unmet medical needs. Lineage's programs are based on its proprietary cell-based therapy platform and associated development and manufacturing capabilities. With this platform Lineage develops and manufactures specialized, terminally-differentiated human cells from its pluripotent and progenitor cell starting materials. These differentiated cells are developed either to replace or support cells that are dysfunctional or absent due to degenerative disease or traumatic injury or administered as a means of helping the body mount an effective immune response to cancer. Lineage's clinical assets include (i) OpRegen®, a retinal pigment epithelium transplant therapy in Phase I/IIa development for the treatment of dry age-related macular degeneration, a leading cause of blindness in the developed world; (ii) OPC1, an oligodendrocyte progenitor cell therapy in Phase I/IIa development for the treatment of acute spinal cord injuries; and (iii) VAC2, an allogeneic cancer immunotherapy of antigen-presenting dendritic cells currently in Phase I development for the treatment of non-small cell lung cancer. For more information, please visit www.lineagecell.com or follow the Company on Twitter [@LineageCell](#).

Forward-Looking Statements

Lineage cautions you that all statements, other than statements of historical facts, contained in this press release, are forward-looking statements. Forward-looking statements, in some cases, can be identified by terms such as "believe," "may," "will," "estimate," "continue," "anticipate," "design," "intend," "expect," "could," "plan," "potential," "predict," "seek," "should," "would," "contemplate," "project," "target," "tend to," or the negative version of these words and similar expressions. Such statements include, but are not limited to, statements relating to enrollment and data from Lineage's clinical studies. Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause Lineage's actual results, performance or achievements to be materially different from future results, performance or achievements expressed or implied by the forward-looking statements in this press release, including risks and uncertainties inherent in Lineage's business and other risks described in Lineage's filings with the Securities and Exchange Commission (SEC). Lineage's forward-looking statements are based upon its current expectations and involve assumptions that may never materialize or may prove to be incorrect. All forward-looking statements are expressly qualified in their entirety by these cautionary statements. Further information regarding these and other risks is included under the heading "Risk Factors" in Lineage's periodic reports filed with the SEC, including Lineage's Annual Report on Form 10-K filed with the SEC on March 14, 2019 and its other reports, which are available from the SEC's website. You are cautioned not to place undue reliance on forward-looking statements, which speak only as of the date on which they were made. Lineage undertakes no obligation to update such statements to reflect events that occur or circumstances that exist after the date on which they were made, except as required by law.

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