



Magenta Therapeutics Presents New Preclinical Data on MGTA-145 Stem Cell Mobilization Product Candidate

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- *A single dose of MGTA-145 mobilized large numbers of hematopoietic stem cells in hours that engrafted robustly in primates*
- *MGTA-145-mobilized cells blocked graft-vs.-host disease (GvHD) in preclinical models*
- *MGTA-145 to enter the clinic in the first half of 2019*

CAMBRIDGE, Mass.--(BUSINESS WIRE)--Dec. 1, 2018-- [Magenta Therapeutics](#) (NASDAQ: MGTA), a clinical-stage biotechnology company developing novel medicines to bring the curative power of bone marrow transplant to more patients, today announced that the Company highlighted new preclinical research on its MGTA-145 product candidate for stem cell mobilization in an oral presentation at the 60th annual meeting of the American Society of Hematology (ASH). MGTA-145 is being developed as a first-line agent to enable single-day mobilization of high numbers of hematopoietic stem cells for bone marrow transplant.

"Seventy percent of the bone marrow transplants performed in the US and Europe each year use mobilized peripheral blood as a source of stem cells, but current standards of care require four to six days to mobilize an adequate number of stem cells. This is a notable burden on patients, donors and healthcare resources, and the standard treatment may be contraindicated or not tolerated in some patients who need transplant," said John Davis, M.D., M.P.H, chief medical officer, Magenta Therapeutics. "Data at ASH this year show that MGTA-145, used in combination with plerixafor, rapidly mobilizes robust numbers of stem cells that successfully engrafted in non-human primates, and the cells mobilized by the combination also blocked GvHD in a preclinical model. Based on the body of preclinical data we have seen with MGTA-145, we will be moving this program into the clinic in the first half of 2019 as a promising investigational first-line therapy for stem cell mobilization."

MGTA-145 in Combination with Plerixafor Rapidly Mobilizes High Numbers of Hematopoietic Stem Cells and Graft-Versus-Host Disease-Inhibiting Myeloid-Derived Suppressor Cells in Non-Human Primates, Abstract #116

Key results, presented by Patrick Falahee, Ph.D., Magenta Therapeutics:

- MGTA-145 works synergistically with plerixafor, another agent for stem cell mobilization, to rapidly mobilize large numbers of stem cells.
- A single injection of MGTA-145 plus plerixafor mobilized sufficient stem cells for transplant within five hours in non-human primates.
- A single injection of MGTA-145 plus plerixafor mobilized 2 to 3 times the number of stem cells in four hours compared to the number mobilized over five days with standard of care agent G-CSF in non-human primates.
- When the cells mobilized with MGTA-145 plus plerixafor were transplanted into a non-human primate model, they rapidly engrafted.
- MGTA-145 plus plerixafor led to a 3-fold increase in immunosuppressive monocytes mobilized over G-CSF – and the mobilized cells blocked GvHD, a significant challenge in allogeneic bone marrow transplant.

About Magenta Therapeutics

Headquartered in Cambridge, Mass., Magenta Therapeutics is a clinical-stage biotechnology company developing novel medicines for patients with autoimmune diseases, blood cancers and genetic diseases. By creating a platform focused on critical areas of unmet need, Magenta Therapeutics is pioneering an integrated approach to allow more patients to receive one-time, curative therapies by making the process more effective, safer and easier.

Forward-Looking Statement

This press release may contain forward-looking statements, including express or implied statements regarding Magenta's future expectations, plans and prospects, including projections regarding future revenues and financing performance, our long-term growth, the anticipated timing of our clinical trials and regulatory filings, the development of our product candidates and advancement of our preclinical programs, as well as other statements containing the words "anticipate," "believe," "continue," "could," "estimate," "expect," "intend," "may," "might," "plan," "potential," "project," "should," "target," "will" or "would" and similar expressions that constitute forward-looking statements under the Private Securities Litigation Reform Act of 1995. Although Magenta's forward-looking statements reflect the good faith judgment of its management, these statements are based only on facts and factors currently known by Magenta. As a result, you are cautioned not to rely on these forward-looking statements. These and other risks concerning Magenta's programs and operations are described in additional detail in its registration statement on Form S-1, its Quarterly Report on Form 10-Q and its other filings made with the Securities and Exchange Commission from time to time. Any forward-looking statement made in this press release speaks only as of the date on which it is made. Magenta undertakes no obligation to publicly update or revise any forward-looking statement, whether as a result of new information, future developments or otherwise.

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