Omega Therapeutics to Present Preclinical Data for OTX-2002 at the American Association for Cancer Research Annual Meeting 2022

March 8, 2022

CAMBRIDGE, Mass., March 8, 2022 /PRNewswire/ -- Omega Therapeutics, Inc. (Nasdaq: OMGA) ("Omega"), a development-stage biotechnology company pioneering the first systematic approach to use mRNA therapeutics as a new class of programmable epigenetic medicines by leveraging its OMEGA Epigenomic Programing ™platform, today announced that it will present preclinical data for OTX-2002, the Company's lead drug candidate for the treatment of hepatocellular carcinoma (HCC), at the upcoming American Association for Cancer Research (AACR) Annual Meeting 2022, taking place in New Orleans, Louisiana, April 8-13, 2022.

"These preclinical data highlight the potential of epigenetic modulation of the c-MYC (MYC) oncogene as a promising new approach for the treatment of hepatocellular carcinoma (HCC), where MYC over expression is associated with aggressive disease in up to 70% of HCC cases," said Mahesh Karande, President and Chief Executive Officer of Omega Therapeutics. "While MYC represents an attractive therapeutic target, it has historically been considered undruggable, due to the consistent failure of current modalities to inhibit MYC directly or indirectly. We look forward to sharing these data that support the potential of epigenetic modulation using our platform to systematically control the underlying biology of gene expression and remain on track to file an Investigational New Drug application for OTX-2002 in the first half of 2022."

Details for the AACR Annual Meeting 2022 poster presentation are as follows:

Title: Epigenetic modulation of the MYC oncogene as a potential novel therapy for HCC
Abstract #: 2629
Date and Time: Tuesday, April 12, 2022 at 9:00 a.m. through 12:30 p.m. CDT

The poster will be posted to our website at https://omegatherapeutics.com/our-science/#publications-research at the same time as the presentation.

About OTX-2002

OTX-2002 is a first-in-class Omega Epigenomic Controller ™in development for the treatment of hepatocellular carcinoma (HCC). OTX-2002 is designed to modulate levels of c-MYC (MYC) expression by utilizing targeted mRNA-encoded proteins to mediate epigenetic regulation while potentially overcoming MYC auto regulation. The MYC oncogene is associated with aggressive disease in up to ~70% of patients with HCC. Omega is currently evaluating OTX-2002 in Investigational New Drug (IND)-enabling studies.

About Omega Therapeutics

Omega Therapeutics, founded by Flagship Pioneering, is a development-stage biotechnology company pioneering the first systematic approach to use mRNA therapeutics as a new class of programmable epigenetic medicines. The company's OMEGA Epigenomic Programming™ platform harnesses the power of epigenetics, the mechanism that controls gene expression and every aspect of an organism's life from cell genesis, growth, and differentiation to cell death. Using a suite of technologies, paired with Omega's process of systematic, rational, and integrative drug design, the deterministic OMEGA platform enables control of fundamental epigenetic processes to correct the root cause of disease by returning aberrant gene expression to a normal range without altering native nucleic acid sequences. Omega's modular and programmable mRNA epigenetic medicines, Omega Epigenomic Controllers ™, target specific epigenomic loci within insulated genomic domains, EpiZips ™, from amongst thousands of unique, mapped, and validated genome-wide DNA-sequences, with high specificity to durably tune single or multiple genes to treat and cure diseases through Precision Genomic Control ™. Omega is currently advancing a broad pipeline of development candidates spanning a range of disease areas, including oncology, regenerative medicine, multigenic diseases including immunology, and select monogenic diseases.

For more information, visit omegatherapeutics.com, or follow us on Twitter and LinkedIn.

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. All statements contained in this press release that do not relate to matters of historical fact should be considered forward-looking statements, including without limitation statements regarding our expectations surrounding the potential of our product candidates, including our lead OEC candidate OTX-2002; and our plans to present preclinical data on OTX-2002 and file an Investigational New Drug application for it in the first half of 2022. These statements are neither promises nor guarantees, but involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements, including, but not limited to, the following: the novel technology on which our product candidates are based makes it difficult to predict the time and cost of preclinical and clinical development and subsequently obtaining regulatory approval, if at all; the substantial development and regulatory risks associated with epigenomic controller machines due to the novel and unprecedented nature of this new category of medicines; our limited operating history; the incurrence of significant losses and the fact that we expect to continue to incur significant additional losses for the foreseeable future; our need for substantial additional financing; our investments in research and development efforts that further enhance the OMEGA platform, and their impact on our results; uncertainty regarding preclinical development, especially for a new class of medicines such as epigenomic controllers; the fact that our product candidates may be associated with serious adverse events, undesirable side effects or have other properties that could halt their regulatory development, prevent their regulatory approval, limit their commercial potential, or result in significant negative consequences; the impact of increased demand for the manufacture of mRNA and LNP based vaccines to treat COVID-19 on our

development plans; difficulties manufacturing the novel technology on which our OEC candidates are based; our ability to adapt to rapid and significant technological change; our reliance on third parties for the manufacture of materials; our ability to successfully acquire and establish our own manufacturing facilities and infrastructure; our reliance on a limited number of suppliers for lipid excipients used in our product candidates; our ability to advance our product candidates to clinical development; and our ability to obtain, maintain, enforce and adequately protect our intellectual property rights. These and other important factors discussed under the caption "Risk Factors" in our Annual Report on Form 10-K for the period ended December 31, 2021 and our other filings with the SEC could cause actual results to differ materially from those indicated by the forward-looking statements made in this press release. Any such forward-looking statements represent management's estimates as of the date of this press release. While we may elect to update such forward-looking statements at some point in the future, we disclaim any obligation to do so, even if subsequent events cause our views to change.

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