Data from Phase III CASTOR Study of Daratumumab Published in The New England Journal of Medicine

Media Release

- The New England Journal of Medicine published data from the Phase III CASTOR study of daratumumab in relapsed or refractory multiple myeloma
- Study data initially presented at the 2016 ASCO Annual Meeting and the 21st Congress of EHA

Copenhagen, Denmark; August 25, 2016 – Genmab A/S (Nasdaq Copenhagen: GEN) announced today The New England Journal of Medicine has published data from the Phase III CASTOR (MMY3004) study of daratumumab. The CASTOR data were presented at the 2016 American Society of Clinical Oncology (ASCO) Annual Meeting and the 21st Congress of the European Hematology Association (EHA). Daratumumab was granted a Breakthrough Therapy Designation (BTD) from the U.S. Food and Drug Administration (FDA) based on these data in July 2016.

The Phase III CASTOR study included 498 patients who had relapsed or refractory multiple myeloma. Patients were randomized to receive either daratumumab combined with subcutaneous bortezomib (a type of chemotherapy, called a proteasome inhibitor) and dexamethasone (a corticosteroid), or bortezomib and dexamethasone alone. The study met the primary endpoint of improving progression free survival (PFS); Hazard Ratio (HR) = 0.39, p<0.001. The median PFS for patients treated with daratumumab has not been reached, compared to median PFS of 7.2 months for patients who did not receive daratumumab. The overall response rate was 82.9% for patients treated with daratumumab versus an overall response rate of 63.2% in the group that did not receive daratumumab. The rate of very good partial response or better was also higher for the group treated with daratumumab (59.2% vs 29.1%). The most common grade 3 or 4 adverse events in patients treated with daratumumab in combination with bortezomib and dexamethasone compared to those who only received bortezomib and dexamethasone were thrombocytopenia (45.3% vs 32.9%), anemia (14.4% vs 16.0%) and neutropenia (12.8% vs 4.2%). Daratumumab-associated infusion-related reactions were reported in 45.3% of patients, were mostly grade 1/2, and occurred predominantly during the first infusion. This is consistent with the reported safety profile of daratumumab monotherapy and background bortezomib/dexamethasone therapy.

“We are pleased that the positive data from the Phase III CASTOR study of daratumumab, which was presented earlier this year at the ASCO and EHA meetings, has now been published in the prestigious New England Journal of Medicine,” said Jan van de Winkel, Ph.D., Chief Executive Officer of Genmab. “The data from this study formed part of the basis of this month’s submission of the supplemental Biologics License Application to the U.S. Food and Drug Administration and the submission of the variation to the Marketing Authorization to the European Medicines Agency.”

About multiple myeloma
Multiple myeloma is an incurable blood cancer that starts in the bone marrow and is characterized by an excess proliferation of plasma cells. Multiple myeloma is the third most common blood cancer in the U.S., after leukemia and lymphoma. Approximately 30,330 new patients are expected to be diagnosed with multiple myeloma and approximately 12,650 people are expected to die from the disease in the U.S. in 2016. Globally, it was estimated that 124,225 people would be diagnosed and 87,084 would die from the disease in 2015. While some patients with multiple myeloma have no symptoms at all, most patients are diagnosed due to symptoms which can include bone problems, low blood counts, calcium elevation, kidney problems or infections. Patients who relapse after treatment with standard therapies, including proteasome inhibitors or immunomodulatory agents, have poor prognoses and few treatment options.

About DARZALEX® (daratumumab)
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DARZALEX® (daratumumab) injection for intravenous infusion is indicated in the United States for the treatment of patients with multiple myeloma who have received at least three prior lines of therapy, including a proteasome inhibitor (PI) and an immunomodulatory agent, or who are double-refractory to a PI and an immunomodulatory agent.† DARZALEX is the first monoclonal antibody (mAb) to receive U.S. Food and Drug Administration (FDA) approval to treat multiple myeloma. DARZALEX is indicated in Europe for use as monotherapy for the treatment of adult patients with relapsed and refractory multiple myeloma, whose prior therapy included a PI and an immunomodulatory agent and who have demonstrated disease progression on the last therapy. For more information, visit www.DARZALEX.com.

Daratumumab is a human IgG1k monoclonal antibody (mAb) that binds with high affinity to the CD38 molecule, which is highly expressed on the surface of multiple myeloma cells. It is believed to induce rapid tumor cell death through programmed cell death, or apoptosis,†,8 and multiple immune-mediated mechanisms, including complement-dependent cytotoxicity,†,8 antibody-dependent cellular phagocytosis9,10 and antibody-dependent cellular cytotoxicity.†,8 In addition, daratumumab therapy results in a reduction of immune-suppressive myeloid derived suppressor cells (MDSCs) and subsets of regulatory T cells (Tregs) and B cells (Bregs), all of which express CD38. These reductions in MDSCs, Tregs and Bregs were accompanied by increases in CD4+ and CD8+ T cell numbers in both the peripheral blood and bone marrow.†,11

Daratumumab is being developed by Janssen Biotech, Inc. under an exclusive worldwide license to develop, manufacture and commercialize daratumumab from Genmab. Five Phase III clinical studies with daratumumab in relapsed and frontline settings are currently ongoing, and additional studies are ongoing or planned to assess its potential in other malignant and pre-malignant diseases on which CD38 is expressed, such as smoldering myeloma, non-Hodgkin’s lymphoma and a solid tumor.

About Genmab
Genmab is a publicly traded, international biotechnology company specializing in the creation and development of differentiated antibody therapeutics for the treatment of cancer. Founded in 1999, the company has two approved antibodies, Arzerra® (ofatumumab) for the treatment of certain chronic lymphocytic leukemia indications and DARZALEX® (daratumumab) for the treatment of heavily pretreated or double refractory multiple myeloma. Daratumumab is in clinical development for additional multiple myeloma indications and for non-Hodgkin’s lymphoma. Genmab also has a broad clinical and pre-clinical product pipeline. Genmab’s technology base consists of validated and proprietary next generation antibody technologies - the DuoBody® platform for generation of bispecific antibodies, and the HexaBody® platform which creates effector function enhanced antibodies. The company intends to leverage these technologies to create opportunities for full or co-ownership of future products. Genmab has alliances with top tier pharmaceutical and biotechnology companies. For more information visit www.genmab.com.

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update or revise forward looking statements in this Media Release nor to confirm such statements in relation to actual results, unless required by law.

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6 Kumar, SK et al. Risk of progression and survival in multiple myeloma relapsing after last therapy with IMiDs and bortezomib: a multicenter international myeloma working group study. Leukemia. 2012; 26:149-57.
7 DARZALEX US Prescribing Information, November 2015.
8 De Weers, M et al. Daratumumab, a Novel Therapeutic Human CD38 Monoclonal Antibody, Induces Killing of Multiple Myeloma and Other Hematological Tumors. The Journal of Immunology. 2011; 186: 1840-1848.