



Amgen And Syapse Enter Precision Medicine Collaboration In Oncology

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Supports Providers With Advanced Insight Tools and Research Opportunities Generates Insights From Real-World Evidence for Potential Use in Regulatory Filings

THOUSAND OAKS, Calif. and SAN FRANCISCO, May 2, 2019 /PRNewswire/ -- Amgen (NASDAQ:AMGN), a world leader in biotechnology, and Syapse, a company powering precision medicine insights through its global provider network, today announced a precision medicine collaboration in oncology.

Under the terms of the agreement, Amgen and Syapse will develop observational research analytics to assess treatment outcomes for areas of unmet need in oncology. This effort will identify existing patients within the Syapse Learning Health Network that could be eligible for Amgen-sponsored clinical trials and seek to bring these trials to community health system sites. The companies will create opportunities for physicians and researchers within the Syapse Network to gain access to analytics, real-world evidence-based insights, and collaborative research opportunities. Amgen will have access to real-world evidence for potential use in regulatory filings in support of certain agreed upon development candidates in oncology. Amgen will also work with Syapse to develop real-world evidence standards to support the acceleration of therapies to market.

"As cancer remains one of the leading causes of death around the world, emerging software and data analytic tools are creating exciting opportunities to more rapidly develop and deliver targeted treatment options to patients," said Mike Nohaile, senior vice president of Strategy, Commercialization and Innovation at Amgen. "Our collaboration with Syapse supports this effort by leveraging real-world evidence to accelerate bringing new oncology treatments to market and empowers healthcare providers with more robust insights and decision-making tools to improve patient care."

"Syapse and Amgen share a common vision of ensuring that all cancer patients, regardless of income or location, receive access to the best possible care," said Ken Tarkoff, chief executive officer at Syapse. "Through this collaboration and the strategic relationships we've built with community health systems globally, we aim to develop evidence of clinical utility that can be used to bring molecularly targeted treatments to market more quickly and ensure more diverse groups of patients can access them."

About Amgen Oncology

Amgen Oncology is searching for and finding answers to incredibly complex questions that will advance care and improve lives for cancer patients and their families. Our research drives us to understand the disease in the context of the patient's life – not just their cancer journey – so they can take control of their lives.

For the last four decades, we have been dedicated to discovering the firsts that matter in oncology and to finding ways to reduce the burden of cancer. Building on our heritage, Amgen continues to advance the largest pipeline in the company's history, moving with great speed to advance those innovations for the patients who need them.

At Amgen, we are driven by our commitment to transform the lives of cancer patients and keep them at the center of everything we do.

For more information, follow us on www.twitter.com/amgenoncology.

About Amgen

Amgen is committed to unlocking the potential of biology for patients suffering from serious illnesses by discovering, developing, manufacturing and delivering innovative human therapeutics. This approach begins by using tools like advanced human genetics to unravel the complexities of disease and understand the fundamentals of human biology.

Amgen focuses on areas of high unmet medical need and leverages its biologics manufacturing expertise to strive for solutions that improve health outcomes and dramatically improve people's lives. A biotechnology pioneer since 1980, Amgen has grown to be the world's largest independent biotechnology company, has reached millions of patients around the world and is developing a pipeline of medicines with breakaway potential.

For more information, visit www.amgen.com and follow us on www.twitter.com/amgen.

About Syapse

Syapse is on a mission to deliver the best care for every cancer patient through precision medicine. Our insights platform, data sharing network, and industry partnerships enable healthcare providers to bring precision cancer care to every patient who needs it. By bringing together leading healthcare innovators into a unified ecosystem, we have built one of the world's largest learning health networks of provider-driven precision medicine data. In collaboration with our customers—including Advocate Aurora Health Care, CommonSpirit Health, Henry Ford Health System, Providence St. Joseph Health, and Seoul National University Hospital—we are working toward a future in which all cancer patients have access to the best personalized care, regardless of location or income.

Amgen Forward-Looking Statements

This news release contains forward-looking statements that are based on the current expectations and beliefs of Amgen. All statements, other than statements of historical fact, are statements that could be deemed forward-looking statements, including estimates of revenues, operating margins, capital expenditures, cash, other financial metrics, expected legal, arbitration, political, regulatory or clinical results or practices, customer and prescriber patterns or practices, reimbursement activities and outcomes and other such estimates and results. Forward-looking statements involve significant risks and uncertainties, including those discussed below and more fully described in the Securities and Exchange Commission reports filed by Amgen, including its most recent annual report on Form 10-K and any subsequent periodic reports on Form 10-Q and current reports on Form 8-K. Unless otherwise noted, Amgen is providing this information as of the date of this news release and does not undertake any obligation to update any forward-looking statements contained in this document as a result of new information, future events or otherwise.

No forward-looking statement can be guaranteed and actual results may differ materially from those Amgen project. Amgen's results may be affected by its ability to successfully market both new and existing products domestically and internationally, clinical and regulatory developments involving

current and future products, sales growth of recently launched products, competition from other products including biosimilars, difficulties or delays in manufacturing its products and global economic conditions. In addition, sales of Amgen's products are affected by pricing pressure, political and public scrutiny and reimbursement policies imposed by third-party payers, including governments, private insurance plans and managed care providers and may be affected by regulatory, clinical and guideline developments and domestic and international trends toward managed care and healthcare cost containment. Furthermore, Amgen's research, testing, pricing, marketing and other operations are subject to extensive regulation by domestic and foreign government regulatory authorities. Amgen or others could identify safety, side effects or manufacturing problems with its products, including its devices, after they are on the market. Amgen's business may be impacted by government investigations, litigation and product liability claims. In addition, Amgen's business may be impacted by the adoption of new tax legislation or exposure to additional tax liabilities. While Amgen routinely obtains patents for its products and technology, the protection offered by its patents and patent applications may be challenged, invalidated or circumvented by its competitors, or Amgen may fail to prevail in present and future intellectual property litigation. Amgen performs a substantial amount of its commercial manufacturing activities at a few key facilities, including in Puerto Rico, and also depends on third parties for a portion of its manufacturing activities, and limits on supply may constrain sales of certain of its current products and product candidate development. We rely on collaborations with third parties for the development of some of our product candidates and for the commercialization and sales of some of our commercial products. In addition, Amgen competes with other companies with respect to many of its marketed products as well as for the discovery and development of new products. Discovery or identification of new product candidates or development of new indications for existing products cannot be guaranteed and movement from concept to product is uncertain; consequently, there can be no guarantee that any particular product candidate or development of a new indication for an existing product will be successful and become a commercial product. Further, some raw materials, medical devices and component parts for Amgen's products are supplied by sole third-party suppliers. Certain of Amgen's distributors, customers and payers have substantial purchasing leverage in their dealings with Amgen. The discovery of significant problems with a product similar to one of Amgen's products that implicate an entire class of products could have a material adverse effect on sales of the affected products and on its business and results of operations. Amgen's efforts to acquire other companies or products and to integrate the operations of companies Amgen has acquired may not be successful. A breakdown, cyberattack or information security breach could compromise the confidentiality, integrity and availability of Amgen's systems and Amgen's data. Amgen's stock price may be volatile and may be affected by a number of events. Amgen's business performance could affect or limit the ability of the Amgen Board of Directors to declare a dividend or its ability to pay a dividend or repurchase its common stock. Amgen may not be able to access the capital and credit markets on terms that are favorable to it, or at all.

CONTACT: Amgen, Thousand Oaks
Kristen Davis, 805-447-3008 (media)
Arvind Sood, 805-447-1060 (investors)

CONTACT: Syapse, San Francisco
Colin Sanford, 203-918-4347
colin.sanford@syapse.com

The Amgen logo consists of the word "AMGEN" in a bold, blue, sans-serif font. The letters are closely spaced and have a slight shadow effect. A registered trademark symbol (®) is located at the top right of the letter "N".

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