



Regeneron and AstraZeneca to Research, Develop and Commercialize New Small Molecule Medicines for Obesity

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Building on recent findings from the Regeneron Genetics Center, novel small molecule drug candidates will target GPR75 to potentially address obesity and related co-morbidities

TARRYTOWN, N.Y., July 27, 2021 /PRNewswire/ -- Regeneron Pharmaceuticals, Inc. (NASDAQ: REGN) and AstraZeneca today announced that the companies have entered into a collaboration to research, develop and commercialize small molecule compounds directed against the *GPR75* target with the potential to treat obesity and related co-morbidities. The collaboration builds on the [recent discovery](#) from the Regeneron Genetics Center® of rare genetic mutations in the *GPR75* gene associated with protection against obesity and on early joint research initiated soon after discovery of the target so that potential treatments can be developed as quickly as possible. The companies will evenly split research and development costs and share equally in any future potential profits.

As [published in Science](#), the new target was found by sequencing nearly 650,000 people and identifying individuals with rare protective mutations. Individuals with at least one inactive copy of the *GPR75* gene had lower BMI and, on average, tended to weigh about 12 pounds less and faced a 54% lower risk of obesity than those without the mutation. Strong associations were also seen with improvements in diabetes parameters, including glucose lowering. Obesity and insulin resistance are key drivers in the development of type 2 diabetes and often lead to cardiorenal complications, as well as liver disease.

"The next era of medicine is being fueled by important genetics findings that direct drug developers on how to deploy our toolkit of biologics, small molecules and gene editing technologies in order to safely help patients in need," said George D. Yancopoulos, M.D., Ph.D., President and Chief Scientific Officer of Regeneron. "As experts on genetics and human biology, Regeneron is excited to join forces with the chemistry and small molecule leaders at AstraZeneca, as we seek to develop new medicines tackling the harmful and costly obesity epidemic."

"We are pleased to announce this important collaboration with Regeneron to identify small molecule modulators against GPR75, a newly identified target with genetic validation in metabolic disorders. Obesity and insulin resistance remain key drivers in the development of type 2 diabetes and areas of significant unmet medical need," said Mene Pangalos, Executive Vice President, BioPharmaceuticals R&D at AstraZeneca.

Obesity is associated with many serious health complications and drives organ dysfunction, including in the heart, liver, kidneys and pancreas. Worldwide the prevalence of obesity has more than tripled since 1975, and approximately 650 million adults are estimated to live with obesity today.

About Regeneron

Regeneron (NASDAQ: REGN) is a leading biotechnology company that invents life-transforming medicines for people with serious diseases. Founded and led for over 30 years by physician-scientists, our unique ability to repeatedly and consistently translate science into medicine has led to nine FDA-approved treatments and numerous product candidates in development, almost all of which were homegrown in our laboratories. Our medicines and pipeline are designed to help patients with eye diseases, allergic and inflammatory diseases, cancer, cardiovascular and metabolic diseases, pain, hematologic conditions, infectious diseases and rare diseases.

Regeneron is accelerating and improving the traditional drug development process through our proprietary *VelociSuite*® technologies, such as *VelocImmune*®, which uses unique genetically humanized mice to produce optimized fully human antibodies and bispecific antibodies, and through ambitious research initiatives such as the Regeneron Genetics Center, which is conducting one of the largest genetics sequencing efforts in the world.

For additional information about the company, please visit www.regeneron.com or follow @Regeneron on Twitter.

Forward Looking Statements and Use of Digital Media

This press release includes forward-looking statements that involve risks and uncertainties relating to future events and the future performance of Regeneron Pharmaceuticals, Inc. ("Regeneron" or the "Company"), and actual events or results may differ materially from these forward-looking statements. Words such as "anticipate," "expect," "intend," "plan," "believe," "seek," "estimate," variations of such words, and similar expressions are intended to identify such forward-looking statements, although not all forward-looking statements contain these identifying words. These statements concern, and these risks and uncertainties include, among others, the impact of SARS-CoV-2 (the virus that has caused the COVID-19 pandemic) on Regeneron's business and its employees, collaborators, and suppliers and other third parties on which Regeneron relies, Regeneron's and its collaborators' ability to continue to conduct research and clinical programs, Regeneron's ability to manage its supply chain, net

product sales of products marketed or otherwise commercialized by Regeneron and/or its collaborators (collectively, "Regeneron's Products"), and the global economy; the nature, timing, and possible success and therapeutic applications of Regeneron's Products and product candidates being developed by Regeneron and/or its collaborators (collectively, "Regeneron's Product Candidates") and research and clinical programs now underway or planned, including without limitation the research and development programs to research, develop, and commercialize small molecule compounds directed against the GPR75 target contemplated under the collaboration discussed in this press release; the extent to which the results from the research and development programs conducted by Regeneron and/or its collaborators (including based on the collaboration discussed in this press release) may be replicated in other studies and/or lead to advancement of product candidates to clinical trials, therapeutic applications, or regulatory approval; the potential for any license, collaboration, or supply agreement, including Regeneron's agreements with Sanofi, Bayer, and Teva Pharmaceutical Industries Ltd. (or their respective affiliated companies, as applicable), as well as Regeneron's collaboration with AstraZeneca discussed in this press release, to be cancelled or terminated; the likelihood, timing, and scope of possible regulatory approval and commercial launch of Regeneron's Product Candidates and new indications for Regeneron's Products; uncertainty of the utilization, market acceptance, and commercial success of Regeneron's Products and Regeneron's Product Candidates, including the impact of recommendations, guidelines, or studies (whether conducted by Regeneron or others and whether mandated or voluntary) on any of the foregoing or any potential regulatory approval of Regeneron's Products and Regeneron's Product Candidates; the ability of Regeneron's collaborators, suppliers, or other third parties (as applicable) to perform manufacturing, filling, finishing, packaging, labeling, distribution, and other steps related to Regeneron's Products and Regeneron's Product Candidates and the impact of the foregoing on Regeneron's ability to supply Regeneron's Products and Regeneron's Product Candidates; the ability of Regeneron to manage supply chains for multiple products and product candidates; safety issues resulting from the administration of Regeneron's Products and Regeneron's Product Candidates in patients, including serious complications or side effects in connection with the use of Regeneron's Products and Regeneron's Product Candidates in clinical trials; determinations by regulatory and administrative governmental authorities which may delay or restrict Regeneron's ability to continue to develop or commercialize Regeneron's Products and Regeneron's Product Candidates; ongoing regulatory obligations and oversight impacting Regeneron's Products, research and clinical programs, and business, including those relating to patient privacy; the availability and extent of reimbursement of Regeneron's Products from third-party payers, including private payer healthcare and insurance programs, health maintenance organizations, pharmacy benefit management companies, and government programs such as Medicare and Medicaid; coverage and reimbursement determinations by such payers and new policies and procedures adopted by such payers; competing drugs and product candidates that may be superior to, or more cost effective than, Regeneron's Products and Regeneron's Product Candidates; unanticipated expenses; the costs of developing, producing, and selling products; the ability of Regeneron to meet any of its financial projections or guidance and changes to the assumptions underlying those projections or guidance; and risks associated with intellectual property of other parties and pending or future litigation relating thereto (including without limitation the patent litigation and other related proceedings relating to EYLEA[®] (afibercept) Injection, Dupixent[®] (dupilumab), Praluent[®] (alirocumab), and REGEN-COV[™] (casirivimab and imdevimab)), other litigation and other proceedings and government investigations relating to the Company and/or its operations, the ultimate outcome of any such proceedings and investigations, and the impact any of the foregoing may have on Regeneron's business, prospects, operating results, and financial condition. A more complete description of these and other material risks can be found in Regeneron's filings with the U.S. Securities and Exchange Commission, including its Form 10-K for the year ended December 31, 2020 and its Form 10-Q for the quarterly period ended March 31, 2021. Any forward-looking statements are made based on management's current beliefs and judgment, and the reader is cautioned not to rely on any forward-looking statements made by Regeneron. Regeneron does not undertake any obligation to update (publicly or otherwise) any forward-looking statement, including without limitation any financial projection or guidance, whether as a result of new information, future events, or otherwise.

Regeneron uses its media and investor relations website and social media outlets to publish important information about the Company, including information that may be deemed material to investors. Financial and other information about Regeneron is routinely posted and is accessible on Regeneron's media and investor relations website (<http://newsroom.regeneron.com>) and its Twitter feed (<http://twitter.com/regeneron>).

Media Contact:

Alexandra Bowie
Tel: +1 (202) 213-1643
alexandra.bowie@regeneron.com

Investors:

Vesna Tasic
Tel: +1 (914) 847-5443
vesna.tasic@regeneron.com

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