

discover. educate. advocate.

How to use the ASHG-TEConomy Report for Science Advocacy

Background Information

In support of <u>ASHG's Strategic Plan</u>, the ASHG Board of Directors tasked the Government and Public Advocacy Committee (GPAC) with developing an action plan to increase awareness of, and support for, the value of genetics and genomics research among policymakers, and provide new resources for ASHG members to engage in advocacy. This <u>ASHG-commissioned report</u> on the economic and health impacts of genetics and genomics is part of the committee's Board-approved <u>Action Plan</u>.

The GPAC led the project with contributions from ASHG leaders and other experts in the community through interviews to help define the scope of the report. Invitae and Regeneron provided additional funding support. Simon Tripp and Marty Grueber of TEConomy Partners, an economic development research firm, conducted the analysis. The authors employed IMPLAN, the standard economic impact model for the U.S. economy, in the study.

Key Findings from the ASHG-TEConomy Report

\$3.3B FEDERAL RESEARCH

152,00

850,000

\$265B TOTAL ECONOMIC IMPACT

\$5.2B
DIRECT FEDERAL TAX REVENUES

4.75:1.00

Federal research funding, using a conservative definition of what constitutes human genetics and genomics research, reached \$3.3 billion in 2019, with most of this coming from NIH.

89,464 core private sector industry jobs and an estimated 62,710 additional extended industry jobs (related employment share from major pharmaceutical and medical testing/diagnostics companies).

With a direct employment estimate of nearly 166,000 academic and industry jobs, human genetics and genomics supports more than 850,000 total jobs. Each direct human genetics and genomics job supports 4.12 additional jobs in the U.S. economy.

The direct economic activity generated by the human genetics and genomics industry exceeds \$108 billion in 2019 and ultimately supports a total of more than \$265 billion across the U.S. economy. Every \$1.00 of direct human genetics and genomics activity generates an additional \$1.45 in the U.S. economy.

The federal tax revenues of \$5.2 billion generated by the direct operations of the human genetics and genomics domain alone surpasses the single year federal investment in human genetics and genomics of approximately \$3.3 billion across all federal agencies.

In the simplest of terms, from a federal investment and revenue perspective, the overall economic impacts of U.S. human genetics and genomics generates a return on investment (ROI) of more than 4.75 to 1.00 (\$3.3 billion in federal investment in human genetics and genomics – while the whole domain generates \$15.5 billion in federal tax revenues).

Using the Report for Advocacy

What policymakers need

- Policymakers in the U.S. Congress have many competing priorities, but always need
 information, anecdotes, accurate data, and local stories to help them stay informed about the
 states and districts that they represent. The local economy and the needs of their districts and
 states are always among the top priorities for policymakers.
- Policymakers need to hear from their constituents in order to understand the challenges they face and to make sound policy decisions on behalf of the people they represent.



discover. educate. advocate.

Speaking with policymakers about the report

This report provides facts and figures that you can share with your policymakers. By combining
with personal stories about your research and experience as a researcher, you can create a
compelling advocacy narrative.

For example, you can pair the number of jobs created by investments in human genetics and genomics research with a story about how many jobs in the field are in your policymaker's state or district, or what a workday is like for someone like yourself with a job in genetics research. In this way, you can creative a narrative that is real, personal, local, and meaningful to a policymaker.

• Sharing this report with your members of Congress is a way to start to build a trusted relationship.

The full report is an excellent resource for policymakers and their staff to have on-hand for more in-depth questions about human genetics and genomics when they arise. Successful advocacy is about building long-term relationships, and it is a major advocacy 'win' if you can become a trusted, go-to expert by your policymakers and their staff.

How to connect with your elected representatives in the U.S Congress

- Click <u>here</u> to let your elected representatives in the U.S. Congress know about the report.
- You can also call your representatives in Congress: Find your representatives here