

FY 2020 HOUSE APPROPRIATIONS COMMITTEE PUBLIC TESTIMONY
SUBMITTED BY THE ENDOCRINE SOCIETY FOR THE SUBCOMMITTEE ON LABOR,
HEALTH AND HUMAN SERVICES, EDUCATION AND RELATED AGENCIES
ADDRESSING THE NATIONAL INSTITUTES OF HEALTH, TITLE X, AND CENTERS
FOR DISEASE CONTROL AND PREVENTION

The Endocrine Society thanks the Subcommittee for the opportunity to submit the following testimony regarding Fiscal Year (FY) 2020 federal appropriations for biomedical research and public health programs. The Endocrine Society is the world's oldest and largest professional organization of endocrinologists representing more than 18,000 members worldwide. The Society's membership includes basic and clinical scientists who receive support from the National Institutes of Health (NIH) to fund research on endocrine diseases that affect millions of Americans, such as diabetes, thyroid disorders, cancer, infertility, aging, obesity and bone disease. Our membership also includes clinicians who depend on new scientific advances to better treat and cure these diseases. Our organization is dedicated to promoting excellence in research, education, and clinical practice in the field of endocrinology. **To support necessary advances in biomedical research to improve health, the Endocrine Society asks that the NIH receive total funding of least \$41.6 billion for fiscal year (FY) 2020. To facilitate the translation of these advances to improve public health, the Endocrine Society asks that the Centers for Disease Control (CDC) receive funding of at least \$7.8 billion; and to ensure that women have access to appropriate health services, we recommend that the Title X program be funded at \$400 million.**

Endocrine Research Improves Public Health

Sustained investment by the United States federal government in biomedical research has dramatically advanced the health and improved the lives of the American people. The United States' NIH-supported scientists represent the vanguard of researchers making fundamental

biological discoveries and developing applied therapies that advance our understanding of, and ability to treat human diseases. Their research has led to new medical treatments, saved innumerable lives, reduced human suffering, and launched entire new industries.

Endocrine scientists are a vital component of our nation's biomedical research enterprise and are integral to the healthcare infrastructure in the United States. Endocrine Society members study how hormones contribute to the overall function of the body and how the glands and organs of the endocrine system work together to keep us healthy. Consequently, endocrine research contributes an important understanding of how the various systems of the human body communicate and interact to maintain health. The multiple body functions governed by the endocrine system are broad and essential to overall wellbeing: endocrine functions include reproduction, the body's response to stress and injury, sexual development, energy balance and metabolism, and bone and muscle strength. Endocrinologists also study interrelated systems, for example how hormones produced by fat can influence the development of bone disease and susceptibility to infections.

Endocrine Research is Supported by Numerous NIH Institutes

Many endocrine diseases and disorders are addressed by the missions of multiple NIH Institutes and Centers (ICs); research on all biological systems and disease states is necessary to advance effective therapies for these diseases. For example:

- Endocrine researchers funded by the National Institute of Aging help us understand how hormonal treatment for menopause might improve stress responses in women¹;
- Researchers funded by the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) are discovering how hormones influence the gut

¹ <https://www.endocrine.org/news-room/press-release-archives/2017/treating-menopausal-symptoms-can-protect-against-stress-negative-effects> Accessed March 11, 2018.

microbiome, which in turn can influence the development of polycystic ovarian syndrome (PCOS)².

- Endocrine oncologists supported by the National Cancer Institute developed a new drug with a unique mechanism that could inhibit the growth of drug-resistant prostate cancer³.
- Diabetologists funded by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) are exploring new genes and biological pathways that could prevent or reverse the development of diabetes⁴.
- National Institute of Environmental Health Science (NIEHS)-funded researchers are investigating how per- and polyfluoroalkyl substances can disrupt endocrine systems resulting in reproductive and cognitive health effects⁵.

An effective biomedical research enterprise therefore requires a strong base appropriation for the NIH and sustained support for all ICs.

NIH Requires Steady, Sustainable Funding Increases

The Endocrine Society appreciates the increases to the NIH budget in recent fiscal years; however, the biomedical research community requires steady, sustainable increases in funding to ensure that the promise of scientific discovery can efficiently be translated into new cures. NIH grant success rates are predicted to remain at historically low averages, meaning that highly skilled scientists will continue to spend more time writing highly meritorious grants that will not be funded. Young scientists will also continue to be driven out of biomedical research careers

² Torres, PJ, et al., "Gut Microbial Diversity in Women with Polycystic Ovary Syndrome Correlates with Hyperandrogenism" *The Journal of Clinical Endocrinology & Metabolism*, jc.2017-02153.

³ <https://www.endocrine.org/news-room/press-release-archives/2013/new-medication-treats-drug-resistant-prostate-cancer-in-the-laboratory>. Accessed March 11, 2018.

⁴ Cinti, F, et al., Evidence of β -Cell Dedifferentiation in Human Type 2 Diabetes. *The Journal of Clinical Endocrinology & Metabolism*, Volume 101, Issue 3, 1 March 2016, Pages 1044–1054,

⁵ Vuong, A., et al., "Prenatal and childhood exposure to poly- and perfluoroalkyl substances (PFAS) and cognitive development in children at age 8 years." *Environmental research*. 2019 Feb 16; 172 :242-248

due to the lack of funding. We know that when laboratories lose financing; they lose people, ideas, innovations and new patient treatments⁶.

Adequate Funding of CDC Programs Is Necessary to Protect the Public's Health

The CDC plays a critical role in advancing public health by applying new knowledge to the promotion of health and prevention of epidemic diseases such as diabetes. The Division of Diabetes Translation administers the National Diabetes Prevention Program (National DPP), which addresses the increasing burden of prediabetes and Type 2 Diabetes in the United States. The National DPP creates public and private partnerships to provide evidence-based, cost-effective interventions that prevent diabetes in community-based settings. Through structured lifestyle change programs at local YMCAs or other community centers, individuals with prediabetes can reduce the risk of developing diabetes by 58% in those under 60 and by 71% in those 60 and older⁷. In addition to supporting public health and prevention activities, CDC's Clinical Standardization Programs in the Center for Environmental Health are critical to improving accurate and reliable testing of hormones, appropriate diagnosis and treatment of disease, and reproducible public health research. Adequate funding is critically important to ensure that CDC has the capacity to address existing and emerging threats to public health in the United States and around the world.

Title X Funding Provides Necessary Services and Reduces Healthcare Costs

Title X is an important source of funding for ensuring reproductive health benefits including both contraceptive and preventive services to women. In 2015, a study found that Title X-funded health centers prevented 822,000 unintended pregnancies, resulting in savings of \$7 billion to federal and state governments. Offering affordable access to contraception can have a

⁶ Teresa K. Woodruff "Budget Woes and Research." *The New York Times*. September 10, 2013.

⁷ The Diabetes Prevention Program (DPP) Research Group "The Diabetes Prevention Program (DPP): description of lifestyle intervention." *Diabetes Care*. 2002 Dec;25(12):2165-71.

measurable impact on these costs. For every public dollar invested in contraception, short-term Medicaid expenditures are reduced by \$7.09 for the pregnancy, delivery, and early childhood care related to births from unintended pregnancies, resulting in savings of \$7 billion to federal and state governments⁸.

Title X is the main point of care for low income, under- or un-insured, adults and adolescents for affordable contraception, cancer screenings, sexually transmitted disease testing and treatment, and medically-accurate information on family planning options. However, to provide these services to the over 4 million people who depend on Title X-funded centers, Title X is significantly underfunded.

FY 2020 Funding Requests

In conclusion, to avoid loss of promising research opportunities, allow budgets to keep pace with inflation, support public health infrastructure , and assure high-quality, evidence-based, and patient-centered family planning care, the Endocrine Society recommends that the Subcommittee provide at least the following funding amounts through the FY 2020 Labor, Health and Human Services, Education, and Related Agencies appropriations bill:

- **\$41.6 billion for the National Institutes of Health**
- **\$7.8 billion for the Centers for Disease Control and Prevention**
- **\$400 million for Title X**

⁸ Frost JJ, et al., Publicly Funded Contraceptive Services at U.S. Clinics, 2015, New York: Guttmacher Institute, 2017.