

The Honorable Paul D. Ryan Speaker United States House of Representatives Washington, DC 20515

The Honorable Kevin McCarthy Majority Leader United States House of Representatives Washington, DC 20515

The Honorable Nancy Pelosi Minority Leader United States House of Representatives Washington, DC 20515 The Honorable Mitch McConnell Majority Leader United States Senate Washington, DC 20510

The Honorable Charles E. Schumer Minority Leader United States Senate Washington, DC 20510

December 6, 2017

Dear Speaker Ryan, Majority Leader McCarthy, Majority Leader McConnell, Minority Leader Pelosi, and Minority Leader Schumer:

As the President of the American Association for Cancer Research (AACR), the world's first and largest scientific organization dedicated to the conquest of cancer, I join distinguished AACR past presidents and Fellows of the AACR Academy to thank you for your support of medical research and your commitment to making the National Institutes of Health (NIH) a national priority.

To this end, we respectfully urge you to move quickly to finalize a multi-year, bipartisan budget agreement that raises the caps on non-defense discretionary spending in FY 2018 imposed by the Budget Control Act. Doing so will allow for a \$36.1 billion investment in NIH in FY 2018 as approved by the Senate Appropriations Committee, and remove the threat of sequester that is so concerning to researchers, advocates, and the public at large. These researchers and their physician-scientist colleagues are working every day to improve the outlook and quality of life for cancer patients.

The mission of the AACR is to prevent and cure all cancers through research, education, communication, and collaboration. The members of the AACR, which include 40,000 laboratory, translational, and clinical researchers, other healthcare professionals, and patient advocates residing in the U.S., as well as 119 other countries and territories around the world, are united in their dedication to accelerating progress in the prevention, detection, diagnosis, and treatment of cancer.

As highlighted in the <u>AACR Cancer Progress Report 2017</u>, innovative cancer treatments are making their way to the clinic at an ever-increasing pace, particularly immunotherapies that harness the patient's own immune system to fight against his/her cancer. Earlier this year, CAR T-Cell therapy was approved by the Food and Drug Administration. This novel cancer treatment represents the first FDA-approved gene therapy in the U.S. and marks a significant step forward in immuno-oncology and precision medicine. Advances such as these are the direct result of federal investment in laboratory, translational, and clinical research through the NIH and the National Cancer Institute (NCI) over many years.

However, with 595,690 estimated cancer deaths this year alone, our work is far from over. Cancer is primarily a disease of aging, with most cases being diagnosed in ages 65 and older. At the same time, it remains the number one cause of disease-related death among U.S. children. We are facing a future in which the number of cancer cases and cancer-related deaths for both the young and old may increase dramatically unless new and better ways to prevent, detect, diagnose, and treat cancer are developed. Additionally, many population groups continue to suffer disproportionately from cancer and its associated effects, particularly certain racial and ethnic minority groups, individuals with low socioeconomic status, residents in certain geographic locations, and the elderly. We can and must do more to overcome these unacceptable cancer health disparities.

We also must secure a strong, diverse pipeline of early-career investigators if we are to continue to accelerate the pace of progress against all cancers in all populations. Many of the innovative research questions and fresh ideas for conquering this disease come from scientists early in their careers. Our country must continue to invest in the education and training of a scientific workforce to whom current leaders in the field can pass the baton in the years to come. Although state and private sector programs provide important assistance to early-career scientists, the role of NIH funding in cultivating tomorrow's scientific leaders is pivotal and irreplaceable.

As you know, our country's leadership in science and medical research is the envy of the world. As the world's biggest funder of biomedical research and home to our nation's largest clinical research facility, the NIH is the crown jewel of the federal government and funds biomedical research in all 50 states. The innovation needed to achieve breakthroughs in cancer treatment and bring hope to our patients requires continued, robust, sustained, and predictable funding increases for the NIH, and those increases are, in turn, dependent on an agreement that removes the overly restrictive budget caps currently in place for FY 2018. If an agreement is not reached, the resulting sequester cuts will jeopardize our competitive edge in an increasingly innovation-based global marketplace. If we are to maintain our global leadership, we must provide the biomedical research ecosystem the support needed to maintain our competitive edge. Therefore, as you continue your work in earnest to finalize FY 2018 appropriations, we respectfully urge you to increase our nation's investment in the NIH through a multi-year, bipartisan budget agreement that raises the non-defense discretionary caps to the level that is necessary to provide the NIH with a \$2 billion increase in FY 2018, to \$36.1 billion. This crucial step is essential if we are to continue to bring new hope to cancer patients and their loved ones.

Thank you for your consideration of our request.

Sincerely, Michael A. Caligiuri, MD AACR President

Bruce M. Alberts, PhD Fellow of the AACR Academy, Class of 2016 University of California, San Francisco San Francisco, California

James P. Allison, PhD Fellow of the AACR Academy, Class of 2014 The University of Texas MD Anderson Cancer Center Houston, Texas

Kenneth C. Anderson, MD Fellow of the AACR Academy, Class of 2015 Dana-Farber Cancer Institute Boston, Massachusetts

Karen H. Antman, MD AACR President, 2003-2004 Fellow of the AACR Academy, Class of 2013 Boston University School of Medicine Boston, Massachusetts

Carlos L. Arteaga, MD AACR President, 2014-2015 Fellow of the AACR Academy, Class of 2015 The University of Texas Southwestern Medical Center Dallas, Texas

David Baltimore, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 1975 California Institute of Technology Pasadena, California

José Baselga, MD, PhD AACR President, 2015-2016 Fellow of the AACR Academy, Class of 2014 Memorial Sloan Kettering Cancer Center New York, New York Joseph R. Bertino, MD AACR President, 1995-1996 Fellow of the AACR Academy, Class of 2013 The Rutgers Cancer Institute of New Jersey New Brunswick, New Jersey

J. Michael Bishop, MD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 1989 University of California, San Francisco San Francisco, California

Mina J. Bissell, PhD Fellow of the AACR Academy, Class of 2013 Lawrence Berkeley National Laboratory Berkeley, California

Elizabeth H. Blackburn, PhD AACR President, 2010-2011 Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 2009 Salk Institute for Biological Sciences La Jolla, California

Clara D. Bloomfield, MD Fellow of the AACR Academy, Class of 2016 The Ohio State University Comprehensive Cancer Center Columbus, Ohio

David Botstein, PhD Fellow of the AACR Academy, Class of 2014 Calico Life Sciences LLC South San Francisco, California

Joan S. Brugge, PhD Fellow of the AACR Academy, Class of 2014 Harvard Medical School Boston, Massachusetts

Lewis C. Cantley, PhD Fellow of the AACR Academy, Class of 2014 Weill Cornell Medical College, New York-Presbyterian Hospital New York, New York Mario R. Capecchi, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 2007 University of Utah School of Medicine Salt Lake City, Utah

Webster K. Cavenee, PhD AACR President, 1998-1999 Fellow of the AACR Academy, Class of 2013 Ludwig Institute for Cancer Research San Diego, California

Thomas R. Cech, PhD Fellow of the AACR Academy, Class of 2016 Nobel Laureate in Chemistry, 1989 University of Colorado Boulder Boulder, Colorado

Bruce A. Chabner, MD Fellow of the AACR Academy, Class of 2015 Massachusetts General Hospital Cancer Center Boston, Massachusetts

Martin Chalfie, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Chemistry, 2008 Columbia University New York, New York

Bayard D. Clarkson, MD AACR President, 1980-1981 Fellow of the AACR Academy, Class of 2013 Memorial Sloan Kettering Cancer Center New York, New York

Stanley N. Cohen, MD Fellow of the AACR Academy, Class of 2013 Stanford University School of Medicine Stanford, California

Carlo M. Croce, MD Fellow of the AACR Academy, Class of 2013 The Ohio State University Comprehensive Cancer Center Columbus, Ohio Tom Curran, PhD AACR President, 2000-2001 Fellow of the AACR Academy, Class of 2013 Children's Mercy Hospital Kansas City, Missouri

Riccardo Dalla-Favera, MD Fellow of the AACR Academy, Class of 2017 Columbia University Institute for Cancer Genetics New York, New York

Nancy E. Davidson, MD AACR President, 2016-2017 Fellow of the AACR Academy, Class of 2017 Fred Hutchinson Cancer Research Center Seattle, Washington

Titia de Lange, PhD Fellow of the AACR Academy, Class of 2014 Rockefeller University New York, New York

Ronald A. DePinho, MD Fellow of the AACR Academy, Class of 2015 The University of Texas MD Anderson Cancer Center Houston, Texas

Vincent T. DeVita, Jr., MD Fellow of the AACR Academy, Class of 2014 Yale Cancer Center New Haven, Connecticut

Vishva M. Dixit, MD Fellow of the AACR Academy, Class of 2017 Genentech, Inc. South San Francisco, California

Jennifer A. Doudna, PhD Fellow of the AACR Academy, Class of 2017 University of California, Berkeley Berkeley, California

Brian J. Druker, MD Fellow of the AACR Academy, Class of 2013 Oregon Health and Science University Knight Cancer Institute Portland, Oregon Raymond N. DuBois, MD, PhD AACR President, 2008-2009 Fellow of the AACR Academy, Class of 2013 Medical University of South Carolina Charleston, South Carolina

Lawrence H. Einhorn, MD Fellow of the AACR Academy, Class of 2014 Indiana University School of Medicine Indianapolis, Indiana

Robert N. Eisenman, PhD Fellow of the AACR Academy, Class of 2015 Fred Hutchinson Cancer Research Center Seattle, Washington

Stephen J. Elledge, PhD Fellow of the AACR Academy, Class of 2014 Harvard Medical School Boston, Massachusetts

Napoleone Ferrara, MD Fellow of the AACR Academy, Class of 2013 UC San Diego Moores Cancer Center La Jolla, California

Isaiah J. Fidler, DVM, PhD AACR President, 1984-1985 Fellow of the AACR Academy, Class of 2013 The University of Texas MD Anderson Cancer Center Houston, Texas

Andrew Z. Fire, PhD Fellow of the AACR Academy, Class of 2014 Nobel Laureate in Physiology or Medicine, 2006 Stanford University School of Medicine Stanford, California

Emil J. Freireich, MD Fellow of the AACR Academy, Class of 2014 The University of Texas MD Anderson Cancer Center Houston, Texas Robert C. Gallo, MD Fellow of the AACR Academy, Class of 2014 University of Maryland School of Medicine Baltimore, Maryland

Judy E. Garber, MD, MPH AACR President, 2011-2012 Fellow of the AACR Academy, Class of 2013 Dana-Farber Cancer Institute Boston, Massachusetts

Walter Gilbert, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Chemistry, 1980 BioVentures Investors Wellesley Hills, Massachusetts

Joe W. Gray, PhD Fellow of the AACR Academy, Class of 2016 Oregon Health & Science University Portland, Oregon

Carol W. Greider, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 2009 Johns Hopkins University School of Medicine Baltimore, Maryland

Roger C.L. Guillemin, MD, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 1977 Salk Institute for Biological Sciences La Jolla, California

James F. Holland, MD AACR President, 1970-1971 Fellow of the AACR Academy, Class of 2013 Icahn School of Medicine at Mount Sinai New York, New York

Jimmie C. Holland, MD Fellow of the AACR Academy, Class of 2013 Memorial Sloan Kettering Cancer Center New York, New York Waun Ki Hong, MD AACR President, 2001-2002 Fellow of the AACR Academy, Class of 2013 The University of Texas MD Anderson Cancer Center Houston, Texas

Leroy E. Hood, MD, PhD Fellow of the AACR Academy, Class of 2013 Institute for Systems Biology Seattle, Washington

H. Robert Horvitz, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 2002 Massachusetts Institute of Technology Cambridge, Massachusetts

Susan Band Horwitz, PhD AACR President, 2002-2003 Fellow of the AACR Academy, Class of 2013 Albert Einstein College of Medicine Bronx, New York

Tony Hunter, PhD Fellow of the AACR Academy, Class of 2013 Salk Institute for Biological Sciences La Jolla, California

Richard O. Hynes, PhD Fellow of the AACR Academy, Class of 2014 David H. Koch Institute for Integrative Cancer Research at MIT Cambridge, Massachusetts

Tyler Jacks, PhD AACR President, 2009-2010 Fellow of the AACR Academy, Class of 2013 David H. Koch Institute for Integrative Cancer Research at MIT Cambridge, Massachusetts

Rudolf Jaenisch, MD Fellow of the AACR Academy, Class of 2016 MIT Whitehead Institute for Biomedical Research Cambridge, Massachusetts Peter A. Jones, PhD, DSc AACR President, 2005-2006 Fellow of the AACR Academy, Class of 2013 Van Andel Research Institute Grand Rapids, Michigan

V. Craig Jordan, OBE, PhD, DSc Fellow of the AACR Academy, Class of 2013 The University of Texas MD Anderson Cancer Center Houston, Texas

Carl H. June, MD Fellow of the AACR Academy, Class of 2017 University of Pennsylvania Perelman School of Medicine Philadelphia, Pennsylvania

Michael Karin, PhD Fellow of the AACR Academy, Class of 2017 University of California, San Diego La Jolla, California

Michael B. Kastan, MD, PhD Fellow of the AACR Academy, Class of 2017 Duke Cancer Institute Durham, North Carolina

Mary-Claire King, PhD Fellow of the AACR Academy, Class of 2013 University of Washington School of Medicine Seattle, Washington

Kenneth Kinzler, PhD Fellow of the AACR Academy, Class of 2014 Johns Hopkins Sidney Kimmel Comprehensive Cancer Center Baltimore, Maryland

Richard D. Kolodner, PhD Fellow of the AACR Academy, Class of 2014 Ludwig Institute for Cancer Research San Diego, California

Margaret L. Kripke, PhD AACR President, 1993-1994 Fellow of the AACR Academy, Class of 2013 The University of Texas MD Anderson Cancer Center Houston, Texas Robert J. Lefkowitz, MD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Chemistry, 2012 Duke University Medical Center Durham, North Carolina

Arnold J. Levine, PhD Fellow of the AACR Academy, Class of 2013 Institute for Advanced Study Princeton, New Jersey

Ronald Levy, MD Fellow of the AACR Academy, Class of 2014 Stanford University School of Medicine Stanford, California

David M. Livingston, MD Fellow of the AACR Academy, Class of 2014 Dana-Farber Cancer Institute Boston, Massachusetts

Lawrence A. Loeb, MD, PhD AACR President, 1988-1989 Fellow of the AACR Academy, Class of 2013 University of Washington School of Medicine Seattle, Washington

Joan Massagué, PhD Fellow of the AACR Academy, Class of 2016 Memorial Sloan Kettering Cancer Center New York, New York

Lynn M. Matrisian, PhD AACR President, 2004-2005 Fellow of the AACR Academy, Class of 2013 Pancreatic Cancer Action Network Manhattan Beach, California

Frank McCormick, PhD AACR President, 2012-2013 Fellow of the AACR Academy, Class of 2013 UCSF Helen Diller Family Comprehensive Cancer Center San Francisco, California Paul L. Modrich, PhD Fellow of the AACR Academy, Class of 2017 Nobel Laureate in Chemistry, 2015 Duke University Medical Center Durham, North Carolina

Harold L. Moses, MD AACR President, 1991-1992 Fellow of the AACR Academy, Class of 2013 Vanderbilt-Ingram Comprehensive Cancer Center Nashville, Tennessee

Olufunmilayo I. Olopade, MD Fellow of the AACR Academy, Class of 2013 The University of Chicago Medical Center Chicago, Illinois

Carol L. Prives, PhD Fellow of the AACR Academy, Class of 2015 Columbia University New York, New York

Sir Richard J. Roberts, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 1993 New England Biolabs, Inc. Ipswich, Massachusetts

Charles L. Sawyers, MD AACR President, 2013-2014 Fellow of the AACR Academy, Class of 2014 Memorial Sloan Kettering Cancer Center New York, New York

Andrew V. Schally, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 1977 University of Miami/VA Medical Center Miami, Florida

Joseph Schlessinger, PhD Fellow of the AACR Academy, Class of 2016 Yale University School of Medicine New Haven, Connecticut Phillip A. Sharp, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 1993 David H. Koch Institute for Integrative Cancer Research at MIT Cambridge, Massachusetts

Charles J. Sherr, MD, PhD Fellow of the AACR Academy, Class of 2013 St. Jude Children's Research Hospital Memphis, Tennessee

Louise C. Strong, MD AACR President, 1996-1997 Fellow of the AACR Academy, Class of 2013 The University of Texas MD Anderson Cancer Center Houston, Texas

Jack W. Szostak, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 2009 Harvard Medical School/ Massachusetts General Hospital Boston, Massachusetts

Craig B. Thompson, MD Fellow of the AACR Academy, Class of 2015 Memorial Sloan Kettering Cancer Center New York, New York

Inder M. Verma, PhD Fellow of the AACR Academy, Class of 2014 Salk Institute for Biological Sciences La Jolla, California

Bert Vogelstein, MD Fellow of the AACR Academy, Class of 2013 Johns Hopkins Sidney Kimmel Comprehensive Cancer Center Baltimore, Maryland

Peter K. Vogt, PhD Fellow of the AACR Academy, Class of 2013 The Scripps Research Institute La Jolla, California Daniel D. Von Hoff, MD AACR President, 1999-2000 Fellow of the AACR Academy, Class of 2013 TGen (The Translational Genomics Research Institute) Phoenix, Arizona

Geoffrey M. Wahl, PhD AACR President, 2006-2007 Fellow of the AACR Academy, Class of 2013 Salk Institute for Biological Sciences La Jolla, California

James D. Watson, PhD Fellow of the AACR Academy, Class of 2013 Nobel Laureate in Physiology or Medicine, 1962 Cold Spring Harbor Laboratory Cancer Center Cold Spring Harbor, New York

Robert A. Weinberg, PhD Fellow of the AACR Academy, Class of 2013 MIT Whitehead Institute for Biomedical Research Cambridge, Massachusetts

Irving L. Weissman, MD Fellow of the AACR Academy, Class of 2014 Stanford University School of Medicine Stanford, California

Owen N. Witte, MD Fellow of the AACR Academy, Class of 2014 University of California, Los Angeles Los Angeles, California

Cc: The Honorable Thad Cochran, Chairman, Senate Committee on Appropriations

The Honorable Patrick J. Leahy, Ranking Member, Senate Committee on Appropriations

The Honorable Roy Blunt, Chairman, Senate Appropriations Subcommittee on Labor, HHS, Education

The Honorable Patty Murray, Ranking Member, Senate Appropriations Subcommittee on Labor, HHS, Education

The Honorable Rodney Frelinghuysen, Chairman, House Committee on Appropriations

The Honorable Nita Lowey, Ranking Member, House Committee on Appropriations

The Honorable Tom Cole, Chairman, House Appropriations Subcommittee on Labor, HHS, Education

The Honorable Rosa L. DeLauro, Ranking Member, House Appropriations Subcommittee on Labor, HHS, Education