

POLICY-RELATED BUILDING BLOCKS FOR ADVANCING PRECISION MEDICINE

Jon G. Retzlaff, MBA, MPA Managing Director, Science Policy and Government Affairs

CANCER CROSSLINKS Lund, Sweden October 14, 2015

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- Review the status of cancer in the U.S. and abroad
- Describe AACR and its work to prevent and cure all cancers
- Discuss the policy-related building blocks for advancing precision medicine and explain how the AACR is contributing to this goal



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THE STATUS OF CANCER IN THE U.S.



Approximately 44% of men and 38% of women will develop cancer in their lifetimes

AAGER American Association for Cancer Research

FINDING CURES TOGETHER**

- 1,658,370 new cancer cases and 589,430 cancer deaths are expected in 2015 (1,620 per day)
- Cancer is the second most common cause of death from disease, the first being cardiovascular disease
- If left unabated, 2,387,304 new cases are expected to be diagnosed in the U.S. annually by 2035

ENCOURAGING NEWS ABOUT CANCER IN THE U.S.

American Association for Cancer Research FINDING CURES TOGETHER*

- The 5-year relative survival rate for all cancers diagnosed between 2005 and 2009 was 68%, up from 49% in 1975-1977
- The number of cancer survivors in the U.S. today is now 14.5 million
- A cancer diagnosis is no longer an automatic death sentence
- Progress is moving at a faster pace than ever before in our history, but much more work needs to be done to achieve our goals



PROJECTIONS OF THE GLOBAL CANCER BURDEN



2015

- 15.2 million new cases
- 8.8 million deaths

2035

- 23.9 million new cases
- 14.6 million deaths





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To prevent and cure cancer through:

- Research
- Education
- Communication
- Collaboration

THESE FOUR AREAS ARE DIRECTLY RELEVANT TO EVERYTHING WE ARE DOING FROM A SCIENCE POLICY PERSPECTIVE TO ADVANCE PRECISION MEDICINE



The AACR is the home of over 35,000 members residing in 101 countries, representing all sub-disciplines and sectors in the cancer field



AACR'S FOOTPRINT IN THE CANCER **RESEARCH COMMUNITY**

Cancer

Molecular Cancer

erapeutics

Immunology

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Eight high-impact scientific journals All AACR Journals rank in the top 30% of all Oncology journals in terms of Impact Factor, including three in the top twelve

Cancer

Prevention Research

AACR'S FOOTPRINT IN THE CANCER RESEARCH COMMUNITY

AMERICAN American Association for Cancer Research

Annual Meeting

Over 19,300 attendees at the 2015 meeting, with top-tier media coverage and social media excitement

AACR'S FOOTPRINT IN THE CANCER RESEARCH COMMUNITY

AMERICAN AMERICAN ASSOCIATION for Cancer Research FINDING CURES TOGETHER*

SAN ANTONIO BREAST CANCER

SYMPOSIUM

36 additional national and international scientific meetings, conferences, and educational workshops, with a projected total attendance of over 30,000 in 2015

RESEARCH GRANTS ADMINISTERED BY THE AACR



- As the scientific partner of Stand Up To Cancer, AACR has administered over \$239 million to fund translational research projects through the its peer review mechanism
- The AACR has administered over \$60 million dollars in grants since 1993.
 Over \$8 million in 2015 to fund the research of 54 scientists
- There are more than 20 AACR Research Grant programs, and the applications for these funds are reviewed by AACR committees that are expert in various topics and organ sites
- The various grant mechanisms administered by the AACR are: Career Development Awards, Research Fellowships, Pathway to Leadership Grants, and other grants for established investigators
- Comprehensive reports are provided to the collaborators and funders, and post-award evaluation is being planned
- The AACR will be awarding the first group of "NextGen Grants for Transformative Cancer Research" in 2016. These grants will provide \$450,000 over 3 years for young researchers performing groundbreaking research

AACR NATIONAL AND INTERNATIONAL COLLABORATIONS





AACR SCIENCE POLICY AND GOVERNMENT AFFAIRS GOALS AND ACTIVITIES



- Serve as an authoritative voice for important issues of science and public policy
- Advocate for increased funding for cancer research and related biomedical science
- Formulate policy recommendations to federal agencies:
 - NIH, NCI, FDA, OHRP, PCORI, CMS
- Produce and disseminate advocacy publications
- Inform policymakers and the public through meetings and special briefings



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"Change is the law of life. And those who look only to the past or present are certain to miss the future." – John F. Kennedy

Science is leading the way

- Emerging molecular information is transforming cancer prevention and care
- Innovative clinical research (adaptive clinical trials) is delivering new therapies to patients more rapidly

Smart public policies are necessary to continue the momentum

- Funding Robust and sustained investments are required
- Regulatory Establishing effective frameworks for regulating, compiling and manipulating the influx of information that can keep pace with rapid scientific discoveries [FDA guidance on lab-developed tests (LDTs) & Next Generation Sequencing (NGS)]
- Human Subject Research Protections "Common Rule" revisions must properly balance the need to protect research subjects, while reducing the burden on investigators
- IT Data sharing, common standards (EHRs), protection of data is important
- Reimbursement Paying for personalized medicine/reimbursement policies







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THE NIH FUNDING CRISIS

NATIONAL

The NIH's ability to support lifesaving research has declined **25%** since FY 2004, when taking inflation into consider<u>ation</u>

AACR American Association

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- The NIH and NCI budgets in FY 2015 (\$30.311 billion and \$4.95 billion, respectively) remain below FY 2010 levels (\$31.238 billion and \$5.1 billion, respectively)
- During FY 2014, the NCI awarded 1,207 competing Research Project Grants (RPGs), compared to 1,487 RPGs in FY 2004
- During FY 2014, the NCI overall success rate was 14%, compared to a 27% success rate in FY 2003 for NCI

NSTITUTES

HEALTH



Our 5th annual AACR Cancer Progress Report 2015

 In the first four reports, 50 courageous individuals have shared their personal experiences with cancer



This annual report to Congress and the American public chronicles how research continues to transform lives such as those of 13 courageous individuals, including two Members of Congress, who have shared their experiences with cancer in this year's edition.

Highlights the FDA-approved molecularly targeted agents in 2015



AACR CANCER PROGRESS REPORT 2015 RELEASE



US Capitol Hill September, 16, 2015

AACR Cancer Progress Report 2015 Released to Standing Room Only Crowd





The AACR held a special briefing on September 16 on Capitol Hill to announce the release of the AACR Cancer Progress Report 2015. This event was the fifth release this annual report that highlights the progress and promise of cancer research and emphasizes the need for robust, sustained, and predictable increases in funding for the NIH, NCI and FDA.



AACR: FOUNDING SPONSOR OF THE RALLY FOR MEDICAL RESEARCH (2013)







RALLY FOR MEDICAL RESEARCH HILL DAY SEPTEMBER 17, 2015

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Third Annual Rally for Medical Research Hill Day



2015 PhRMA CANCER REPORT (RELEASED SEPTEMBER 9, 2015)





 73% of cancer medicines in the pipeline have the potential to be personalized medicines

More than 800 medicines and vaccines are currently in clinical testing for cancer

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PRESIDENT OBAMA FORMALLY ANNOUNCES PRECISION MEDICINE INITIATIVE



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PRESIDENT OBAMA'S PRECISION MEDICINE INITIATIVE

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- Announced on January 30, 2015
- \$200 million overall investment in FY2016 for NIH
- \$70 million investment to NCI to scale up efforts to identify genomic drivers in cancer and apply this knowledge to more effective approaches to cancer treatment
- \$130 million to NIH to develop a voluntary national research cohort of over one million volunteers to advance our understanding of health and disease; engage research cohorts, patient groups, and the private sector in partnerships to expand genomics; and maximize open data sharing



AACR Junior Champion in Cancer Research Award Recipient Elana Simon and President Barack Obama Announce the Initiative, 1-30-15



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FDA-APPROVED MOLECULARLY TARGETED AGENTS IN 2015



Five new anticancer therapeutics approved:

- Palbociclib (lbrance)
 Certain type of breast cancer
- Sonidegib (Odomzo) Most common type of skin cancer
- Lenvatinib (Lenvima)
 Certain type of thyroid cancer
- Panobinostat (Farydak) Multiple myeloma
- Dinutuximab (Unituxin) Neuroblastoma

Two new indications for previously approved therapeutics:

- Gefitinib (Iressa)
 Certain type of lung cancer
- Ibrutinib (Imbruvica)
 Certain type of non-Hodgkin lymphoma

Exciting research is underway to identify novel ways to expedite cancer drug discovery and development

This is precision medicine in action!

AACR-ADVAMEDDX SYMPOSIUM (OCT. 29, 2013)

















- Transforming Cancer Care Through Diagnostics and Personalized Medicine
- Importance of diagnostics in personalized cancer care.
- Regulatory and reimbursement policy challenges and opportunities.
- Opening keynote Harold E. Varmus, MD
- Lunch conversation between Francis S. Collins, MD, PhD and Margaret A. Hamburg, MD moderated by Charles L. Sawyers, MD

AACR ISSUES A POLICY STATEMENT ON LAB-DEVELOPED TESTS - SEPT. 9, 2014



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Reliable and Effective Diagnostics Are Keys 📼 to Accelerating Personalized Cancer Medicine and Transforming Cancer Care: A Policy Statement from the American Association for **Cancer Research**

Charles L. Sawyers¹ and Laura J. van 't Veer²

+ Author Attiliations

Diagnostics are enabling physicians to make more informed treatment decisions by tailoring treatments based on each patient's unique molecular profile. Diagnostics are also an increasingly vital tool for translating the state-of-the-art advances made in basic research into improved clinical outcomes for patients. Some of the most exciting scientific advances of our time-genomics, proteomics, and other "omics" technologiesare propelling the development of novel, rapid, sensitive, less invasive, and more accurate molecular diagnostic tests, which in turn is dramatically improving our ability to detect and treat various cancers earlier and with greater precision.

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CONGRESSIONAL HEARING ON LABORATORY DEVELOPED TESTS

- On Sept. 9, 2014, AACR President Charles Sawyers testified before the House Energy and Commerce committee and reiterated the AACR's position on the regulation of Laboratory Developed Tests (LDTs).
- The AACR policy statement, co-written by Dr. Sawyers and Dr. Laura van 't Veer, was published in *Cancer Clinical Research* on September 9, 2014.
- The AACR believes that a unified regulatory framework for all diagnostic tools, including LDTs, is critical to ensuring patient safety and to spurring innovation on a national and global level.

Image: Dr. Sawyers testifying before the U.S. House Energy and Commerce committee on September 9th, 2014





DIAGNOSTICS AND PRECISION MEDICINE BRIEFING ON JUNE 8, 2015



AACR and AdvaMedDx cohosted this Congressional briefing on June 8, 2015, to discuss the leading role diagnostics have in precision medicine and how President Obama's Precision Medicine Initiative will revolutionize our understanding and treatment of diseases.




- Announced on January 30, 2015
- \$10 million investment to FDA for the development of databases to support the regulatory structure needed to advance innovation in precision medicine and public health



- Sponsored FDA Workshops
 - FDA-AACR-ASCO workshop on Harmonizing Companion Diagnostic Development (across class of targeted therapies, such as PDL1) – March 24, 2015
 - FDA-AACR Workshop on Dose Finding (optimizing early-phase dosing for developing the next generation of precision oncology medicines) – May 18-19, 2015
 - 2016 FDA-AACR Workshops Liquid Biopsies, Immunotherapy, and a second workshop on Dose Finding are planned
- AACR Science Series at the FDA
- Regulatory Science and Policy Track at AACR Annual Meeting
- AACR Partnerships with European organizations

COMPLEXITIES IN PERSONALIZED MEDICINE: HARMONIZING COMPANION DIAGNOSTICS ACROSS A CLASS OF TARGETED THERAPIES



FINDING CURES TOGETHER*



On March 24, 2015, FDA, AACR, and ASCO sponsored a workshop that examined challenges in the development and use of multiple targeted therapy-companion diagnostic pairs directed at the same or similar biomarker(s).

A blueprint proposal from six industry stakeholders to examine performance characteristics of tests was released at the workshop.



Co-chairs (L-R): Drs. van 't veer, Mansfield, and Schilsky



DOSE-FINDING OF SMALL MOLECULE ONCOLOGY DRUGS



On May 18-19, 2015, FDA and AACR cosponsored a public workshop titled "Dose-finding of Small Molecule Oncology Drugs."

The two-day workshop provided an interdisciplinary forum to discuss the best practices of dose finding and dose selection for small molecule kinase inhibitors developed for oncology indications.





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The Role of Neo-Adjuvant Treatment in Drug Development for Solid Tumors	Clinical Trial Enrichment Strategies: Designing a Prospectively Defined Retrospective Analysis Study
Evolution of Personalized Drug Development in Oncology-Kinase Inhibitors	Integrating Patient Reported Outcomes (PROs) into Regulatory Evaluation
New Drugs: Breakthrough Therapies and Beyond	FDA's Proposed Framework to Regulate Laboratory Developed Tests (LDTs)
Regulatory Strategies in Oncology Drug Development	The Past, Present, and Future of FDA Regulation of Next Generation Sequencing (NGS)
Incorporating Next-Generation Sequencing (NGS) into Oncology Diagnostics, Therapeutics, and Treatment	

2015 AACR-NCI-EORTC INTERNATIONAL CONFERENCE ON MOLECULAR TARGETS AND CANCER THERAPEUTICS

- The premier annual international drug development meeting, featuring novel targets, cancer therapeutics, and immunotherapeutics
- November 5-9, 2015, Boston, MA
- Levi A. Garraway, MD, PhD (AACR), Lee J. Helman, M.D. (NCI), Jean-Charles Soria, MD (EORTC), Co-chairs
- Projected attendance: >2,600
- >50% of attendees are from industry



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FINDING CURES TOGETHER**

A NEW COLLABORATION WITH THE EORTC AND EMA



FINDING CURES TOGETHER*

EORTC-NCI-EMA-AACR International Conference on Innovation and Biomarkers in Cancer Drug Development

- December 3-4, 2015, Brussels, Belgium
- To be held every other year in the U.S. with the FDA, to be named "AACR-NCI-FDA-EORTC"
- Meeting in the U.S. to take place in December 2016



SMART PUBLIC POLICIES ARE NECESSARY TO CONTINUE THE MOMENTUM



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HUMAN SUBJECT RESEARCH PROTECTIONS: UPDATING THE "COMMON RULE"



- Overall Goal: Enhancing protections for research subjects and reducing burden, delay, and ambiguity for investigators, institutions and IRBs
- The Notice of Proposed Rulemaking (NPRM) requests input on:
 - Research use of identifiable private information & biospecimens
 - Calibrating the review process
 - Exclusions and exemptions
 - Improve informed consent process & privacy safeguards
 - Single IRBs
 - Expanding the scope of the rule

ANNUAL TURNING THE TIDE **CONFERENCE**





A NATIONAL INITIATIVE TO SUPPORT POLICIES THAT FOST



for Cancer Research



Feinstein Kean Healthcare An Oplicy Company

AGAINST CANCER

hrough Sustained Medical Innovation



- Advancing patient-centric research and care
- Innovative drug development; incorporation of patient needs
- The urgency to improve public health, and the need to reduce health care costs, requires support for innovative, transformative research

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- Announced on January 30, 2015
- \$5 million to the Office of the National Coordinator for Health Information Technology to support the development of interoperability standards and requirements that address privacy issues and enable secure exchange of data across systems



Genomics; Evidence; Neoplasia; Information; Exchange (GENIE)

VISION

A scalable platform to facilitate sharing of genomic and clinical outcomes data to catalyze the full implementation of precision cancer medicine leading to:

- Drug repositioning
- Development of new precision anticancer therapeutics
- Proof of the clinical utility of large-scale sequencing efforts, which should lead to insurance coverage and broader access.

PILOT PROJECT

An innovative network of seven national and international academic cancer centers that will share genomic and clinical data over a five-year period to answer novel clinical questions. First major meeting took place on July 15-16, 2015, at the AACR Office, Charles L. Sawyers, MD, Chairperson, with 26 participants. Formal announcement will be made in early November at the AACR-NCI-EORTC Molecular Targets and Therapeutics meeting in Boston

WHY NOW?

Many cancer centers and academic medical centers are actively engaged in independent large-scale clinical sequencing efforts, but still lack sufficient data to effectively make clinical decisions based on these efforts. Pooling data is viewed as essential and synergistic to this goal.

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- Personalized medicine shifts emphasis from reactive to preventive
- Personalized medicine controls costs through making it more effective and efficient, while reducing trial-and-error prescribing
- Fair reimbursement for diagnostic tests is vitally needed
- Jan., 2015, Department of HHS Secretary Sylvia Burwell announces goal of tying 50 percent of traditional, or fee-for-service, Medicare payments to quality or value Alternative Payment Models by the end of 2018
- Payers will require evidence-based examples of successes, as high cost of cancer treatment currently exists
- Lack of access to quality personalized cancer care exists for many Americans (awareness and education must increase)

COLLABORATION IS THE CATALYST FOR ADVANCING PRECISION MEDICINE AND IMPROVING PATIENT CARE



AACR American, Association for Cancer Research ACADEMIA GOVERNMENT LAY PUBLIC INDUSTRY HILANTHROPIC SCIENTIFIC AND ADVOCACY SOCIETIES AMAGER American Association for Cancer Research GROUPS



FINDING CURES TOGETHER*

WORLD

WORLD ECONOMIC FORUM

- The Global Agenda Council on Personalized & Precision Medicine
 - Presented the economic, medical and societal • rationale for investing in personalized health.
 - Working on accelerating personalized health through data sharing, including collaborating with a larger information and communications technology project on "data commons" led by the World Economic Forum, highlighting the need for data interoperability.
 - Working to remove roadblocks to the implementation of personalized and precision health through a series of discussions as well as a policy paper on regulatory and payer harmonization across different geographies.



Understanding/Context

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AACR'S NICHE IN PRECISION CANCER MEDICINE



- AACR leadership in advocating for budget increases for the NIH, NCI and FDA
- AACR scientific journals that focus on this research area: Cancer Discovery, Clinical Cancer Research, Molecular Cancer Therapeutics, and Cancer Immunology Research
- AACR Clinical and Translational Cancer Research Committee focused on research and science policy areas that are key to advancing personalized cancer medicine
- AACR Regulatory Science and Policy Subcommittee of the Science Policy and Government Affairs Committee
- AACR sponsorship of the Annual Personalized Medicine Conference and partnership with the Personalized Medicine Coalition
- Strong translational focus at AACR Annual Meetings, Special Conferences, and mid-size meetings (e.g., the AACR-NCI-EORTC Molecular Targets and Therapeutics Meeting series)
- Regular interactions with AACR's industry partners



Thank you again for your kind invitation to participate in this important meeting.