CONFERENCE
PROGRAM

From Concept to the Clinic

November 14 – 16, 2017

Joseph B. Martin Conference Center, Harvard Medical School
77 Avenue Louis Pasteur, Boston, MA 02115

13TH ANNUAL
○ ○ ○ PERSONALIZED
○ ○ ○ MEDICINE
○ ○ ○ CONFERENCE
President’s Message

Dear Colleague:

“The standard of care is just not good enough,” Michael Pellini, M.D., Chairman, Board of Directors, Foundation Medicine, told the audience at the 12th Annual Personalized Medicine Conference. It is time, Pellini said, to think about the space differently.

Guided by that premise, the 13th Annual Personalized Medicine Conference will facilitate dialogue focused on translating the concept of personalized medicine into improved clinical care. Participants will engage with thought leaders and health professionals from the front lines to explore, among other subjects, how an under-studied value proposition, information technology challenges and practical obstacles at the point of care complicate efforts to bring personalized medicine to patients — and how emerging partnership models, economic utility studies and real-world evidence may help to eliminate these impediments. The agenda includes:

- An exploration of the implications of CRISPR-Cas9 and gene therapy for medicine and humanity
- A fireside chat with a pharmaceutical industry representative on the pricing of personalized medicines
- A discussion of case studies on the economic value of personalized medicine
- Detailed clinical insights from patients, providers and payers

I hope you will join your colleagues from the industry, policy, payer, clinician and patient communities to help us chart a course for the future of personalized medicine by participating in the program, which will explore the evolution of personalized medicine “From Concept to the Clinic.”

Sincerely yours,

Edward Abrahams, Ph.D.
President
Personalized Medicine Coalition
The 13th Annual Personalized Medicine Conference will begin with informal discussions on the field and its future during a welcome reception at the Hotel Commonwealth at 5:30 p.m. ET on November 14.
“It’s not really ‘should we do this.’ We have to do this. We don’t get to decide what the biology of these diseases are, we just have to work with it.”

Barbara Weber, M.D.
Venture Partner, Third Rock Ventures
7:00 a.m.  Registration and Breakfast

8:00 a.m.  Opening Remarks
SPEAKER | Edward Abrahams, Ph.D., President, Personalized Medicine Coalition

8:10 a.m.  The State of Personalized Medicine
INTRODUCTION | Steven D. Averbuch, M.D., Head, Precision Medicine, R & D, Bristol-Myers Squibb
KEYNOTE | Thomas J. Lynch, Jr., M.D., Executive Vice President, Chief Scientific Officer, R & D, Bristol-Myers Squibb

8:40 a.m.  13th Annual Leadership in Personalized Medicine Award
PRESENTER | Kimberly Popovits, Chairman of the Board, CEO, President, Genomic Health
AWARDEE | Jay T. Flatley, Executive Chairman, Illumina

9:10 a.m.  Networking Break

9:35 a.m.  Progress in Partnerships: A Two-Part Discussion
Aligning the constructs of the health system with the principles of personalized medicine will require stakeholders to scale the most promising cross-sector partnership models. This series of fireside chats will examine the potential of two such models.

9:45 A.M.  A Model for Risk-Sharing Agreements Between Payers and the Pharmaceutical Industry
Many payers are reluctant to assume that covering personalized medicines will help mitigate costs associated with catastrophic medical events that require hospitalization. During this fireside chat, representatives from Amgen and Harvard Pilgrim Health Care will discuss the logic and implications of their groundbreaking agreement to share the financial risks of covering a targeted medicine based on that premise. Under the terms of the agreement, Amgen agreed to cover treatment costs for patients who have a heart attack or stroke while taking its personalized therapy for familial hypercholesterolemia.
MODERATOR | Meg Tirrell, M.S.J., Reporter, CNBC
Joshua Ofman, M.D., M.S.H.S., Senior Vice President, Global Value, Access & Policy, Amgen Inc.
Michael Sherman, M.D., M.B.A., M.S., Senior Vice President, Chief Medical Officer, Harvard Pilgrim Health Care

10:15 A.M.  Models for the Development of Personalized Medicine Diagnostics
Pharmaceutical and diagnostics companies have responded to a host of complex scientific, regulatory and reimbursement challenges partly by developing innovative partnership models around companion diagnostics. This panel discussion will feature representatives from the pharmaceutical and diagnostics industries, who will discuss the challenges partnerships have helped industry overcome as well as the obstacles that continue to inhibit the development of the diagnostic tools upon which personalized medicine depends.
MODERATOR | Alexander Vadas, Ph.D., Managing Director, L.E.K. Consulting
Nicholas Dracopoli, Ph.D., Vice President, Head, Oncology Translational Research, Janssen Pharmaceuticals
Joydeep Goswami, Ph.D., President, Clinical Next-Generation Sequencing, Oncology, Thermo Fisher Scientific
Jacob S. Van Naarden, Chief Business Officer, Loxo Oncology
10:35 a.m. **Real-World Personalized Medicine: Examining the Role of Real-World Evidence in Personalizing Health Care**

FDA has offered a definition of real-world evidence, but the community continues to debate what is needed to fully integrate it into decision-making. This session will explore what real-world evidence is, how it is being used and what regulatory requirements are needed to realize its potential.

**MODERATOR | Amy Abernethy, M.D., Ph.D., Chief Medical Officer, Senior Vice President, Oncology, Flatiron Health**

**Sean Khozin, M.D., M.P.H., Associate Director (Acting), Oncology Center of Excellence, FDA**

**Eric G. Klein, Pharm.D., Senior Director, Oncology, Global Patient Outcomes and Real World Evidence, Eli Lilly and Company**

**Eleanor M. Perfetto, Ph.D., M.S., Senior Vice President, Strategic Initiatives, National Health Council**

**Deborah Schrag, M.D., M.P.H., Chief, Division of Population Sciences, Medical Oncology, Dana-Farber Cancer Institute**

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11:50 a.m. **Luncheon**

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1:00 p.m. **The Designer Genome: Exploring the Implications of Gene Editing and Gene Therapy for the Future of Medicine and Humanity**

Many scientists believe the regularly interspaced short palindromic repeats (CRISPR-Cas9) genetic engineering tool and recent developments in gene therapy will dramatically alter the trajectory of medicine, but the implications of these developments for health systems around the world remain unclear. During this session, a panel of experts will discuss the status of these new technologies — and how the medical community and regulatory agencies may have to adapt to keep up with forthcoming developments.

**MODERATOR | Kevin Davies, Ph.D., Co-Author, DNA: The Story of the Genetic Revolution (with Jim Watson & Andrew Berry); Executive Editor, The CRISPR Journal**

**Katrine Bosley, CEO, Editas Medicine**

**Arthur L. Caplan, Ph.D., Drs. William F. and Virginia Connolly Mitty Chair; Director, Division of Medical Ethics, New York University Langone Medical Center**

**George Church, Ph.D., Professor of Genetics, Health Sciences, Technology, Harvard and MIT; Director of HMS NHGRI-Center of Excellence in Genomic Science; Director of the Personal Genome Project, Broad Institute & Wyss Harvard Institute of Biologically Inspired Engineering Harvard Medical School**

**Jeffrey D. Marrazzo, M.B.A., M.P.A., Co-Founder, CEO, Spark Therapeutics**

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2:15 p.m. **Pricing Personalized Medicines**

The increasing pressure on industry stakeholders to alter their drug pricing practices has particular significance for personalized medicines, which must recoup research and development costs from smaller patient populations. This conversation will explore the pharmaceutical industry’s strategies for facilitating patient access to these therapies.

**MODERATOR | Meg Tirrell, M.S.J., Reporter, CNBC**

**Stephen J. Ubl, President, CEO, PhRMA**

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2:45 p.m. **Networking Break**

(sponsored by GreyBird Ventures)
3:15 p.m. **Precision Valuation: A Discussion of How Value Assessment Frameworks Can Account for Personalized Medicine**

Payers control access to personalized medicine, and some have begun to take an interest in findings from value assessment frameworks that are challenged to account for scientific developments in the field. In addition to exploring their potential impact on individualized care, this session will examine how value assessment frameworks can and should consider personalized medicine as part of their processes for evaluating therapeutic options.

**MODERATOR | Jennifer Snow**, M.P.H., Director, Health Policy, Xcenda
**Dane J. Dickson**, M.D., CEO, Cure-One (formerly MED-C); Director, Precision Medicine Policy and Registries, Knight Cancer Center at OHSU
**Robert Dubois**, M.D., Ph.D., Chief Science Officer, Executive Vice President, National Pharmaceutical Council
**Andrea Ferris**, M.B.A., President, Chairman of the Board, LUNGevity Foundation
**Steven Pearson**, M.D., M.Sc., Founder, President, Institute for Clinical and Economic Review (ICER)

4:30 p.m. **The Utility Proposition: An Analysis of Case Studies in the Economic Value of Personalized Medicine**

Although personalized medicine’s proponents contend that the field can deliver economic value by helping doctors avoid prescribing costly but ineffective therapies, the field lacks literature testing that hypothesis. This session will highlight recent studies on the clinical and economic value of personalized medicine, shedding light on what we know about personalized medicine’s clinical and economic utility — and what we don’t.

5:45 p.m. **Elements Café Cocktail Reception**
"[We’re] not talking about something that may happen someday. [We’re] talking about what’s happening now.”

Howard McLeod, Pharm.D.
Medical Director, DeBartolo Family Personalized Medicine Institute, Moffitt Cancer Center

NOVEMBER 16, 2017

Joseph B. Martin Conference Center
Harvard Medical School
Boston, MA 02115
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<td>Opening Remarks</td>
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<td>SPEAKER</td>
<td>Stephen L. Eck, M.D., Ph.D., President, CEO, Aravive Biologics; Board Chairman, PMC</td>
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<td>8:10 a.m.</td>
<td>Clinical Adoption of Personalized Medicine: A Two-Part Discussion</td>
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<td>SESSION CHAIR</td>
<td>Marcia A. Kean, M.B.A., Chairman, Strategic Initiatives, Feinstein Kean Healthcare</td>
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<td>8:15 A.M.</td>
<td>The Case for Personalized Medicine in the Clinic: The View From the Corner Office</td>
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<td>Inspiring an organizational commitment to a new way of practicing medicine requires visionary leadership. This fireside chat will highlight the viewpoints and approaches of leaders who are spearheading efforts to adopt personalized medicine at clinical institutions, with an eye on the value proposition for changing existing norms and practices.</td>
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<td>MODERATOR</td>
<td>Howard McLeod, Pharm.D., Medical Director, DeBartolo Family Personalized Medicine Institute, Moffitt Cancer Center</td>
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<td>Jeffrey R. Balser, M.D., Ph.D., Dean of Vanderbilt University School of Medicine, President and CEO, Vanderbilt University Medical Center</td>
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<td>Ronald A. Paulus, M.D., President and CEO, Mission Health</td>
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<td>9:00 A.M.</td>
<td>Practicing Personalized Medicine: Lessons From the Front Lines</td>
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<td>To successfully integrate personalized medicine into a health system, administrators and clinicians must also design and implement new processes related to program infrastructure and informatics; help educate physicians and patients about the field; and inspire cultural change within the institution. During this panel discussion, a group of early adopters will share lessons learned from implementing pilot programs across the United States.</td>
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<td>MODERATOR</td>
<td>Daryl Pritchard, Ph.D., Vice President, Science Policy, Personalized Medicine Coalition</td>
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<td>Bonnie J. Addario, Founder, Chair, Bonnie J. Addario Lung Cancer Foundation; Lung Cancer Survivor</td>
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<td>Scott A. Beck, M.B.A., Administrator, Center for Individualized Medicine, Mayo Clinic</td>
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<td>Timothy Cannon, M.D., Clinical Director, Molecular Tumor Board, Inova Schar Cancer Institute</td>
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<td>Peter Hulick, M.D., M.M.Sc., Medical Director, Center for Personalized Medicine, NorthShore University HealthSystem</td>
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<td>Marc S. Williams, M.D., Director, Genomic Medicine Institute, Geisinger</td>
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<td>10:15 a.m.</td>
<td>Networking Break (sponsored by Moffitt Cancer Center)</td>
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10:45 a.m. Harvard Business School Case Study — Intermountain Healthcare: Pursuing Precision Medicine

Intermountain Healthcare has a long history of being at the forefront of healthcare quality improvement and the development of treatment protocols. In 2013, Intermountain Precision Genomics (IPG) was started with Dr. Lincoln Nadauld as its Executive Director. IPG focused on stage 4 cancer patients and performed three distinct functions: genomic sequencing, interpretation of sequencing results with recommendations for precision therapies, and drug acquisition and reimbursement. A paper published in February 2017 reported that in addition to having a higher quality of life, patients who received the targeted therapies had progression-free survival rates of almost twice as long as other patients. The purpose of our case discussion will be to assess these efforts, to consider their broader applicability and to review IPG’s plans for the future.

PRESENTER | Richard Hamermesh, D.B.A., Senior Fellow, Former MBA Class of 1961, Professor of Management Practice, Harvard Business School

12:00 p.m. Overview of the International Landscape for Personalized Medicine

PRESENTER | Kristin Pothier, Global Head of Life Sciences, Parthenon-EY

12:30 p.m. Bag Lunch

1:30 p.m. Personalized Medicine at FDA: An Inside Look at the Agency’s Priorities for the Field

INTRODUCTION | Cynthia A. Bens, Vice President, Public Policy, Personalized Medicine Coalition

KEYNOTE | Sean Khozin, M.D., M.P.H., Associate Director (Acting), Oncology Center of Excellence, FDA

2:00 p.m. The Patient Perspective on Personalized Medicine

INTRODUCTION | Susan McClure, Founder, Publisher, Genome magazine

KEYNOTE | Bryce Olson, Global Marketing Director, Health and Life Sciences Group, Intel Corporation

2:30 p.m. Patient 2.0: Exploring the Future of Personalized Medicine

Many observers speculate that the coming wave of gene editing, gene therapy, direct-to-consumer genetic tests and the personalized use of wearables will change the psychology, sociology, economy and efficacy of health care. Informed by the previous panel discussions, this conversation will examine the future of personalized medicine and the merits of these emerging trends.

MODERATOR | Robert C. Green, M.D., M.P.H., Director, G2P Research Program, Associate Director for Research, Partners Personalized Medicine, Division of Genetics, Department of Medicine, Brigham and Women’s Hospital, Broad Institute and Harvard Medical School

Sandro Galea, M.D., Dr.P.H., Dean, Robert A. Knox Professor, School of Public Health, Boston University

Tom Miller, Founder, Managing Partner, GreyBird Ventures LLC

Michael Snyder, Ph.D., Stanford W. Ascherman Professor and Chair, Department of Genetics, Director, Center for Genomics and Personalized Medicine, Stanford University School of Medicine

3:30 p.m. Closing Remarks

SPEAKER | Edward Abrahams, Ph.D., President, Personalized Medicine Coalition
Thank You to Our Sponsors

Sponsorship opportunities for the 13th Annual Personalized Medicine Conference are available. Please contact Mary Bordoni, Director, Membership & Development, at mbordoni@personalizedmedicinecoalition.org for details.