

DAY 1 PROGRAM



PMWC 2018

PRECISION MEDICINE WORLD CONFERENCE

Sept 24-25 DUKE UNIVERSITY

Sept 24, 2018

Time	Track 1	Track 2
7:00am	REGISTRATION, EXHIBITION AND NETWORKING (BREAKFAST PROVIDED)	
8:00am	Opening Words: <i>Tal Behar, PMWC</i>	
8:03am	Opening Words: <i>Ralph Snyderman, Duke University</i>	
8:10am	Keynote: <i>J. Craig Venter, J. Craig Venter Institute (JCVI)</i>	
8:30am	Microbiome-Based Healthcare Applications Keynote: <i>Jeff Gordon, Washington University</i> Microbiota-directed Therapeutic Foods for Treating Childhood Undernutrition	
8:45am	<i>Lawrence David, Duke University</i> Personalizing Food to the Gut Microbiome	AI and Data Sciences Showcase <i>Jonathan Franca-Koh, National Cancer Institute</i> Overview of the NCI SBIR Program
9:00am	<i>Rita Colwell, Johns Hopkins</i> Gut Microbiome and Wellness	<i>Juthika Khargharia, SAS</i> Computer Vision with SAS
9:15am	Efforts to Accelerate PM <i>Patrick Conway, BCBSNC</i>	<i>Gunnar Carlsson, Ayasdi</i> Why Healthcare's Biggest Opportunity is Tailor Made for AI
9:30am	<i>Lauren Silvis, FDA</i>	<i>Mohsen Hejrati, Clusterone</i> Deep Learning for Personalized Cancer Treatment
9:45am	All of Us - An Update <i>Stephanie Devaney, NIH</i>	<i>Andrew Eye, ClosedLoop.ai</i> Stop Data Shaming – Messy Data Is Beautiful
10:00am	BREAK, EXHIBITION AND NETWORKING (COFFEE AND REFRESHMENTS PROVIDED)	
10:30am	Emerging Technologies In PM Keynote: <i>Robert Langer, MIT</i> Development of Polymers to Deliver Drugs	AI and Data Sciences Showcase - continues <i>Don Brown, LifeOmic</i> The Cloud Enables the "Precision" in Precision Medicine
10:45am	<i>Mickey Kertesz, Karius</i> Novel Pathogen Detection	<i>Nicholas Campbell, Median Technologies</i> Image-Based Phenotyping for PM: The Promise of Imaging Phenomics in AI
11:00am	<i>Atul Sharan, CellMax Life</i> Accurate Low-Cost Blood Test for Early Cancer and Pre-Cancer Detection	<i>Nevenka Dimitrova, Philips Healthcare</i> Integrative Informatics for Knowledge Curation and Analytics to Scale PM
11:15am	<i>Dawn Barry, LunaDNA</i> Individuals as Research Partners Powered by Blockchain	Health Monitoring Showcase <i>Jungyeon Park, WeCancer</i> Patient Reported Outcome Platform for Cancer Patients in Brazil
11:30am	Personalizing Healthcare Through Computational Medicine: Redefining Humanly Possible <i>Jason Crites, IBM</i>	Non-Clinical Services Showcase <i>Amos Dor, Applied Materials</i> Precision Medicine Manufacturing
11:45am	<i>Isidore Rigoutsos, Thomas Jefferson University</i>	Clinical Dx Showcase <i>Raj Krishnan, Biological Dynamics</i> Plasma cell-free DNA as a Biomarker for Monitoring Response to Immunotherapies and Early Cancer Detection
12:00pm	BREAK, EXHIBITION AND NETWORKING (LUNCH PROVIDED)	

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1:00pm	AI and Machine Learning to Create Tangible Impact in PM <i>Guido Lanza, Numerate Inc.</i> Transforming Drug Discovery Using AI	Clinical Dx Showcase - continues <i>Natalia Mitin, HealthSpan Dx</i> Bringing Biomarkers of Aging into Clinic
1:15pm	<i>Michael Pencina, Duke University School of Medicine</i> Fusion of Quantitative Methods to Support Learning	<i>David Hong, Karius</i> Liquid Biopsy for Infectious Diseases – Clinical Applications of the Karius NGS Test
1:30pm	Connecting Healthcare Data to Eliminate the Silos of Healthcare Information <i>Eric Perakslis, Datavant</i> Pushing Data Uphill: Breaking Down the Macro and Micro Silos of Healthcare Data	<i>Kevin Puylaert, SOPHiA GENETICS</i> Data-Driven Medicine Powered by SOPHiA
1:45pm	Approaches towards Understanding and Enhancing Human Longevity <i>Tom Caskey, Baylor College of Medicine</i> Phenotype Data Enhances Adult Precision Medicine Diagnosis	<i>Eden Haverfield, Invitae</i> Proactive Testing In The Genomic Medicine Era
2:00pm	Economics of PM <i>Brian Caveney, Labcorp</i> Opportunities to Impact Health Care Spend	<i>Mike Nall, Biocept, Inc.</i> Liquid Biopsy - Why It Matters
2:15pm	Investment Perspective in Precision Medicine <i>Michael Pellini, Section 32</i>	<i>Myla Lai-Goldman, GeneCentric Therapeutics</i> Delivering Greater Precision to Precision Medicine
2:30pm	Q&A	<i>Philip Parks, Exact Sciences</i> Exact Sciences & Cologuard: Winning the War on Cancer through Early Detection
2:45pm	Precision Cancer Therapy <i>Timothy L. Cannon, Inova Health System</i> Precision Medicine within the Community Setting	<i>David Ellis, SmartGene, Inc.</i> 25 years of Precision Medicine: How HIV Guides Future Applications
3:00pm	Diversity of the Workforce to Achieve Precision Medicine <i>Hannah Valantine, NIH</i> Scientific Workforce Diversity: A Cornerstone for Precision Health	Clinical Dx Showcase - continues <i>Richard West, Baebies</i> Screening and Diagnostics for Pediatric Precision Medicine
3:15pm	Implementation into Health Care Delivery <i>Holli Hutcheson Dilks, Sarah Cannon Research Institute</i> Implementing Community-Based Molecular Cancer Conferences	AI and Data Sciences Showcase - continues <i>Alexandra Villarreal O'Rourke, Womble Bond Dickinson</i> Managing Legal Risk in the Use of AI and Machine Learning Tools
3:30pm	Award Reception <i>Networking, Hors d'oeuvres, Wine</i>	TRACK 2 CLOSING FOR DAY 1
4:00pm	Award Ceremony <i>Honoring Jeff Gordon, Washington University in St. Louis</i>	
4:15pm	<i>Honoring Mary Relling, St. Jude Children's Research Hospital</i>	
4:30pm	NETWORKING	
5:30pm	TRACK 1 CLOSING FOR DAY 1	

DAY 2 PROGRAM



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Sept 25, 2018

Time	Track 1	Track 2
7:00am	REGISTRATION, EXHIBITION AND NETWORKING (BREAKFAST PROVIDED)	
7:55am	<i>Mary E. Klotman, Duke Univ. School of Medicine</i> Opening words	
8:00am	Panel: Precision Medicine Workforce Moderator: <i>Ralph Snyderman, Duke University</i>	AI and Data Sciences Showcase - continues <i>Alexander Tropsha, UNC-Chapel Hill</i> Applications of AI and Text Mining to Drug Discovery and Repurposing
8:15am	Panelists: <i>Jeffrey Balser, Vanderbilt University Medical Center</i> Creation of Precision Medicine Workforce	<i>Charles Jaffe, HL7</i> Healthcare on FHIR: Innovation in Data Exchange & Analytics
8:30am	<i>Catherine Lucey, UCSF</i> Preparing Physicians for the Precision Medicine Era	<i>John Walker, uMETHOD Health</i> Solving Alzheimer's: Developing A Multi-Domain Interventions Approach
8:45am	<i>Susanne Haga, Duke University School of Medicine</i>	<i>Vijetha Vemulapalli, Berg LLC</i> Artificial Intelligence in Healthcare: Looking Past the Hype
9:00am	Implementation into Healthcare Delivery <i>Geoffrey Ginsburg, Duke Univ. School of Medicine</i> IGNITE: A National Network for Implementing Genomic Medicine	Immunotherapy Showcase <i>Christopher Bolen, Womble Bond Dickinson</i> Licensing Challenges and Opportunities for Antibody Therapies in the Wake of Amgen v. Sanofi
9:15am	Understanding Genetic Resilience <i>Cathleen Colon-Emeric, Duke Univ. School of Medicine</i> Biomarkers of Physical Resilience in Older Adults	<i>Dani Bolognesi, Istari Oncology</i> PVSRIPO, A Prototypic Oncolytic Recombinant Polio Virus Vaccine
9:30am	Rare Disease Diagnosis <i>Vandana Shashi, Duke Univ. School of Medicine</i> Remaining Undiagnosed after Exome Sequencing: What Next?	<i>Mark Miglarese, Caris Life Sciences</i> Multiplatform Molecular Profiling
9:45am	<i>Omar Abdul-Rahman, University of Nebraska Medical Center</i> Personalizing Medicine with Artificial Intelligence and Facial Analysis	<i>Ryan Swenerton, Natera</i> Signatera—Customized ctDNA Platform for Cancer Research
10:00am	BREAK, EXHIBITION AND NETWORKING (COFFEE AND REFRESHMENTS PROVIDED)	
10:30am	Large Scale Bio-data Resources to Support Drug Development (PPPs) Moderator: <i>Robert Califf, Duke University School of Medicine</i>	Immunotherapy Showcase - continues <i>Jennifer Giltnane, Genentech</i> More Than Pretty Pictures – Quantitative Multiplexed Tissue Assays for Immunotherapy Biomarker Development
10:45am	Panelists: <i>Aris Baras, Regeneron</i>	Microbial Profiling Showcase <i>Manoj Dadlani, CosmosID</i> Microbiome Characterization: Standards, Sequencing, and Bioinformatics
11:00am	<i>Sally John, Biogen</i> <i>Stacey Gabriel, Broad Institute</i>	<i>Nikole Kimes, Siolta Therapeutics</i> Next Generation Microbial Therapeutics: A System's Perspective
11:15am	<i>Howard Jacob, Abbvie</i>	Clinical & Research Tools Showcase <i>Ty Ridenour, RTI International</i> PersonAlytics™ for Rigorous Small Sample Trials and Patient Monitoring

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11:30am	Early Days of Life Sequencing <i>Ben Solomon, GeneDx</i> Algorithmic and Machine Learning Approaches to Neonatal Genomics	Clinical & Research Tools Showcase - continues <i>Wendell Jones, Q² Solutions EA Genomics</i> Immune Landscape Signatures: Characterization of TME and Response to Therapy
11:45am	<i>Madhuri Hegde, PerkinElmer</i> From Newborn Screening to Whole Genome Sequencing	<i>Michael Olivier, Wake Forest School of Medicine</i> Integrated Multi-omics Analysis Approaches for Precision Medicine
12:00pm	BREAK, EXHIBITION AND NETWORKING (LUNCH PROVIDED)	
1:00pm	Pharmacogenomics Testing of Childhood Leukemia Treatments <i>William Evans, St. Jude Children's Research Hospital</i> Pharmacogenomics of Drug Resistance in Acute Leukemia	Clinical & Research Tools Showcase - continues <i>Daniel Tiber, Roche</i> Using Precision Data and Workflow Management to Empower Tumor Boards
1:15pm	<i>Mary Relling, St. Jude Children's Research Hospital</i> Preemptive Clinical Implementation of Pharmacogenetic Testing	<i>Manuel Glynias, GenomOncology, LLC</i> Augmented Intelligence for Precision Oncology
1:30pm	Therapeutic Neoantigen Vaccination <i>Benjamin Vincent, UNC</i> Insights on Neoantigen Vaccination from Preclinical Models	Emerging Therapeutics Showcase <i>William Hearl, Immunomic Therapeutics, Inc.</i> Immunomic's UNITE Platform Capabilities in Immunotherapy
1:45pm	Immunotherapy - Predicting Response to Targeted Therapies and Checkpoint Inhibitors <i>Nicholas Dracopoli, PGDx</i>	<i>Thomas Wechsler, Sangamo Therapeutics</i> Patient Safety in the Genomic Medicine Era
2:00pm	<i>Scott Pruitt, Merck Research Laboratories</i> Tissue-agnostic Approval of Keytruda: Converging Factors	<i>Derek Jantz, Precision BioSciences</i> Meganucleases for Ex Vivo and in Vivo Genome Editing
2:15pm	Investment Perspective in Precision Medicine <i>Arthur Pappas, Pappas Capital</i>	Wellness and Aging <i>L. Staton Noel III, Panaceutics</i> On Demand Manufacturing For Personalized Formulations
2:30pm	<i>Charles Gersbach, Duke University</i> CRISPR Tools for Gene Therapy and Programming Epigenetics	<i>William Haas, Essential Health Solutions</i> Translating Personalize Medicine into the Primary-Care Setting
2:45pm	Precision Public Health <i>Ebony Boulware, Duke University</i> Population Precision Health	Clinical & Research Tools Showcase - continues <i>Richard Spero, Redbud Labs</i> Low Titer Limits: The Science and New Technologies of Rare Analyte Detection
3:00pm	BREAK, EXHIBITION AND NETWORKING (COFFEE AND REFRESHMENTS PROVIDED)	
3:30pm	The Baseline Project <i>Svati Shah, Duke University School of Medicine</i> Project Baseline: Mapping Human Health	Clinical Dx Showcase - continues <i>Ephraim Tsalik, Predigen, Inc.</i> The Host Response to Infectious Disease as a New Diagnostic Strategy
3:45pm	Population-Based Genomics <i>Caroline Savello, Color Genomics</i> The Economic Case for Population-Based Genomic Screening	AI and Data Sciences Showcase - continues <i>Shahar Keinan, Cloud Pharmaceuticals</i> Disruptive Drug Design and Development using AI, ML and Scientific Modeling
4:00pm	TRACK 1 CLOSING FOR DAY 2	TRACK 2 CLOSING FOR DAY 2