

Event Day	1
Date	Tuesday, Dec 2
Venue	Exhibition Hall 2 QNCC

Time	Activity Title	Details / Speakers	MC
07:30-08:45	Registration & Networking Breakfast		

OPENING SESSION

08:45-09:00	SUMMIT OPENING CEREMONY		
	MC: Fatima Al-Ali , Translational Medicine Scientist, Sidra research Branch, Sidra Medicine, Qatar		
09:00-09:15	Opening Keynote Address Mila to Millions	Julia Vitarello Founder & CEO of Mila's Miracle Foundation, USA	MC
09:15-09:35	Opening Plenary Lecture Advancing a World-Class Precision Medicine Bioeconomy	Ed Liu Professor and special fellow of The Jackson Laboratory (JAX), USA	

THE SUMMIT FLAGSHIP OPENING PANEL

09:35-10:25	From Personalized to Population-Scale: Building a Thriving Precision Medicine Sector in Qatar	<ul style="list-style-type: none"> • Julia Vitarello, Founder & CEO of Mila's Miracle Foundation, USA. • Manolis Dermitzakis, President, Qatar Precision Health Institute (QPHI), Qatar • Ed Liu, fellow of The Jackson Laboratory (JAX), USA. • Stephen Kingsmore, President and CEO of Rady Children's Institute for Genomic Medicine, USA. • Claudia Langenberg, Director of the Precision Healthcare University Research Institute, Queen Mary Uni. of London, UK. • Rana Lonnen, General Partner, Science Capital (London) & Strategic Investment Partner, Wyss Center (Geneva), Switzerland. 	Khalid Fakhro Chief Research Officer, Sidra Medicine, Qatar
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10:30-11:00	Networking Break		
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SESSION-1

N-OF-1 Therapies: Precision at the Single Patient Level

11:00-11:25	Keynote Lecture Fulfilling the promise of individualizable therapies: from N-of-1 to N-of-Many	Tim Yu Associate Professor of Pediatrics, Neurogeneticist, Division of Genetics and Genomics, Boston Children’s Hospital; Harvard Medical School, USA	Calum MacRae Professor of Medicine, Harvard Medical School and Mass General Brigham, USA
11:25-11:45	Genetically Informed Therapies Spanning Rare Childhood Disorders to Universal Therapeutic Insights	Hakon Hakonarson Director of the Center for Applied Genomics at CHOP and professor of Pediatrics at the Perelman School of Medicine, University of Pennsylvania, USA.	
Industry Sponsored Fireside Chat			
11:45-12:05	Unlocking the next era of population health research in Qatar	Jacob Thaysen CEO, Illumina, USA	Khalid Fakhro Chief Research Officer, Sidra Medicine, Qatar
SESSION-2 Accelerating Genomic Medicine Through Advanced Technologies			
12:05-12:20	Industry Sponsored Talk The Living Code: AVITI24 and the story of change	Molly He CEO, Elements Biosciences, USA	Wouter Hendrickx , Director and Principal Investigator, Pediatric Oncology Translational Research Program, Sidra Medicine, Qatar.
12:20-12:30	Highlight From the Front Lines (Sidra Medicine Core Genomic Lab). Multi-Omics Integration to Uncover Functional Insights into Patient- Derived Melanoma Model using AVITI24	Oleksandr Soloviov Manager, Clinical Genomics Core Facility, Sidra Medicine, Qatar. Giusy Gentilcore Manager, Flow Cytometry Core, Sidra Medicine, Qatar.	
12:30-01:30	Lunch Break and Industry Workshop- Concurrent Sessions		
01:30-01:45	AWARDING CEREMONY 1		
SPECIAL KEYNOTE ADDRESS On Data Science			
01:45-02:10	Adventures in Human Genetics: Integrating Genetics, Proteomics & Data Science	Gonçalo Abecasis Vice President & Chief Genomics and Data Science Officer at the Regeneron Genetics Center, USA	Fowzan Alkuraya CEO, Lifera Omics. KSA
Industry Sponsored Fireside Chat			
02:10-02:30	Reimagining Innovation in a Data-Driven World: From Labs to Lives	Nagarajan Kathiresan King Abdullah University of Science and Technology	Ingrid Fernandez Global head of strategy, HPE, USA
Industry Sponsored Talk on Long Read Sequencing			

02:30-02:45	Decoding the Complexity of Human Disease with HiFi Sequencing	Neil Ward Vice President and General Manager for Europe, the Middle East, and Africa, PacBio, UK.	Souhaila Al Khodor Director, Perinatal and Reproductive Health Translational Research Program, Sidra Medicine, Qatar
SESSION-3			
SPECIAL SESSION ON AUTISM PERSONALIZED MEDICINE: Catalyzing Breakthroughs: How Strategic Philanthropy Fuels Precision Autism Research			
02:50-03:10	Plenary Address The Lurie Autism Institute: A New Model for Transforming Autism Science, Care, and Global Collaboration	James Dowling Van Meter Professor, Departments of Neurology and Genetics. Director, Penn Neurogenetics Therapy Center University of Pennsylvania/Penn Medicine. Attending Physician, Division of Neurology Children’s Hospital of Philadelphia	Hilal Lashuel RDI Advisor to the Chairperson of Qatar Foundation and Executive Director of RDI-CPO
03:10-03:30	Keynote Address From Autism Gene Discovery to Mechanism-Driven Therapies	Hakon Hakonarson Director of the Center for Applied Genomics at CHOP and professor of Pediatrics at the Perelman School of Medicine, University of Pennsylvania, USA.	
03:30-04:00	Networking Break and Travel Award Winner Presentation Integrating WGS and RNA-seq for the Diagnosis of a Non-Coding RNU4ATAC Spliceopathy. Mert Pekerbas Izmir Biomedicine and Genome Center, Turkey		
	PANEL DISCUSSION		
04:00-04:40	Global Opportunities for Precision Autism Medicine with Worldwide Impact.	James Dowling Van Meter Professor, Departments of Neurology and Genetics. Director, Penn Neurogenetics Therapy Center University of Pennsylvania, Attending Physician, Division of Neurology, Children’s Hospital of Philadelphia	Hilal Lashuel RDI Advisor to the Chairperson of Qatar Foundation and Executive Director of RDI-CPO
		Hakon Hakonarson Director, Center for Applied Genomics, CHOP; Professor of Pediatrics, University of Pennsylvania, USA	

		Madeeha Kamal Acting Division Chief Adolescent Medicine, Sidra Medicine, Qatar	
		Jouke-Jan Hottenga Acting Director, Neurological Disorders Research Center and associate professor, Qatar Biomedical Research Institute (QBRI), Qatar	
		Noof Al Sidiqi Lead- National Autism Plan in Ministry of Public Health (MoPH), Qatar.	
CLOSING PLENNARY LECTURE			
04:40-05:10	Genomes, Avatars and AI - the Future of Personalized Medicine	Olivier Elemento Director of the Englander Institute for Precision Medicine Weill Cornell Medicine, NY, USA	Maha Al Henzab Executive Director, Information Technology, Sidra Medicine
05:10-05:15	Closing Remarks- Day 1		

DAY-2

Event Day	2
Date	Wednesday, Dec 3
Venue	Exhibition Hall 1&2 QNCC

Time	Session Title / Activity	Details /Speakers	Chair
07:30-08:15	Registration & Networking Breakfast		
Morning Forum Building the Precision Medicine Ecosystem: Research, Technology, and Patient Impact			
08:15-08:25	Sidra’s Medicine Translational Research Programs	Ibrahim Janahi Chief Medical Officer and Chair of Medical Education, Sidra Medicine, Qatar Khalid Fakhro Chief Research Officer, Sidra Medicine, Qatar	Samir Gupta Division Chief, Neonatology. Sidra Medicine, Qatar
08:25-08:35	Metabolic and Mendelian Disorders Translational Research Program, Sidra Medicine	Ammira Akil Director and Principal Investigator, Metabolic and Mendelian Disorders	

		Translational Research Program, Sidra Medicine, Qatar	Patricia Abboud Executive Director, Medical Services, Sidra Medicine, Qatar
08:35-08:40	AGR2 deficiency as a disease and organoid model for gastric intestinal metaplasia	Ahmed Al-Shaibi PhD candidate, Immune Dysregulation Program, Sidra Medicine, Qatar Sidra Medicine, Qatar.	
08:40-08:45		Reem Hasnah Scientist, Congenital Malformations Trnslational Research Program, Sidra Medicine, Qatar.	
08:45-08:55	Neuroscience Translatinal Research Program, Sidra Medicine	Younes Mokrab Director and Principal Investigator, Neuroscience Translatinal Research Program, Sidra Medicine, Qatar	
SESSION-1 OPENING PLENARY LECTURE			
08:55-09:20	Rapid genome sequencing and the future of inpatient precision medicine	Stephen Kingsmore President and CEO of Rady Children’s Institute for Genomic Medicine, USA	Nicholas Katsanis Co-Founder, Executive VP and Chief Science Officer, Galatea Bio, USA
THE CEO PANEL			
09:20-10:00	The CEO Panel	Devyn M. Smith CEO, Arbor Biotechnologies, USA.	Khalid Fakhro Chief Research Officer, Sidra Medicine. Qatar
		James Flynn Managing Partner, Deerfield, USA.	
		Rama Chakaki President, Qatar Science and Technology Park (QSTP), Qatar.	
		Oscar Barranco Liebana Enterprise Innovation Program Director at QRDI Council	
		Soumaya Ben Beya Dridje General Partner, Rasmal Ventures	
		Laura Furmanski Partner, Patient Square Capita	
Special Keynote Address Featuring Award-Winning Leader in Neurogenetics			
10:00-10:30	Special Keynote Address The Global Parkinson's Genetics Program: Building a Global Network.	Andrew Singleton Lead, the Global Parkinson’s Genetics Program (GP2), USA	Hilal Lashuel Research Development and Innovation Advisor to the Chairperson of Qatar Foundation, Executive Director of

			RDI, Qatar Foundation, Qatar.
10:30-11:00	Networking Break		
SESSION-2 Architecting Precision Medicine: Data, Infrastructure, and Intelligent Technologies			
11:00-11:20	Industry Sponsored Focused Presentation Generative Quantum AI: engineering the next generation of precision medicine and genomics.	Elvira Shishenina Senior Director of Strategic Initiatives. Quantinuum.	Abdul Rahman Selhab. Technical Manager - Genomic Data Science Core, Sidra Medicine, Qatar
11:20-11:40	Industry Sponsored Talk Modernizing Computing for Medical Research: from HPC to Quantum	Ahmed Al Gatatsheh Lead, IBM Quantum, EMEA, IBM.	
11:40-12:00	Industry Sponsored Focused Presentation From Pilot to Population: Advanced Computing That Turns Genomics into a Growth Engine	Amit Batra Chief AI & Health Transformation Officer, Microsoft, EMEA. Microsoft.	Ehsan Pourkarimi Assistant Professor, College of Health Sciences, Hamad Bin Khalifa University (HBKU)
12:00-12:20	Technology Sponsored Presentation Ozone-Driven Hygiene: A Silent Enabler of Precision Health in Hospital Environments.	Jake Robinson Compass, Qatar	
12:30-01:30	Lunch Time and Industry Workshops		
Special Keynote Address on Data Sharing			
01:30-01:50	Towards Responsible International Sharing of Genomic Data: Lessons Learned	Ma'n Zawati Research Director, Centre of Genomics and Policy, McGill University, Canada.	Wadha A. Al-Muftah Chief Medical and Operations Officer, Qatar Precision Health Institute, Qatar.
SESSION-3 Precision Health in Practice: Global Lessons for Policy & Trust WISH Panel Discussion			
01:50-02:30	Introductory Remarks Slim Slama , Chief Executive Officer, World Innovation Summit for Health (WISH) Qatar Foundation, Qatar		
		Ma'n Zawati	

	Building Trust: Policy and Regulation for the Responsible Use of Technology and Genomic Data	Research Director, Centre of Genomics and Policy, McGill University, Canada	Slim Slama, Chief Executive Officer, World Innovation Summit for Health (WISH) Qatar Foundation, Qatar
		Barry Sulaiman Assistant Professor, Healthcare Law, Hamad bin Khalifa University, Qatar	
		Rita Cerqueira Director of Genetic Diagnostics and Clinical Genomics Laboratory, Portugal.	
Sponsored Panel Discussion AstraZeneca and BeginNGS Consortium			
02:30-03:00	New Beginnings: Rewriting the story for infants with rare diseases in our region	Maha Zaki Human Genetics and Genome Research Institute, Egypt	Stephen Kingsmore President and CEO of Rady Children’s Institute for Genomic Medicine, USA
		Ammira Akil Director, Metabolic and Mendelian Disorders Clinical Research Program, Sidra Medicine, Qatar	
		Abdulrazaq Al-Jazairi Director, the clinical Trials Transformation Division, King Faisal Specialist Hospital, KSA	
03:00-03:30	Networking Break and Travel Award Winner Presentation A microRNA signature to personalize drug therapies in type 1 diabetes Hrshikesh Hardikar Diabetes and Islet Biology Group, School of Medicine, Western Sydney University, Australia		
SESSION-4 Global Clinical Trials in Rare Disease Therapies KEYNOTE LECTURE SERIES			
03:30-03:50	Pioneering Precision Clinical Trials in the Middle East: Implementing Novel Therapies for Rare Conditions	Tawfeg Ben Omran Division Chief, Genetic and Genomic Medicine – Sidra Medicine Senior Consultant, Department of Medical Genetics – HMC, Qatar	Richard Oram Professor of Diabetes and Nephrology, University of Exeter, UK
03:50-04:10	Keynote Lecture Developing And Deploying Personalized Gene-Editing Therapies Baby KJ Story	Kiran Musunuru Professor for Translational Research, Perelman School of Medicine at the University of Pennsylvania, USA	
04:10-04:30	Building Global Networks for Rare Disease Trials	Devyn M. Smith CEO, Arbor Biotechnologies, USA	
04:30-04:50	Building Platform Technologies for Rapid Precision Drug Development: The EveryONE Medicines Approach	Srinivas Chunduru Chief Scientific Officer, EveryONE Medicines Inc. USA	
CLOSING PLENARY LECTURE OF DAY 2			

05:00-05:30	Advancing Genomic Insights Through Variant Interpretation	Heidi Rehm Chief genomics officer, Department of Medicine Massachusetts General Hospital (MGH) and Broad Institute	Hamdi Mbarek Director, Research and Partnerships, QPHI, Qatar.
05:25-05:30	Closing Remarks of Day 2		

DAY-3

Event Day	3
Date	Thursday, Dec 4
Venue	Exhibition Hall 1&2 QNCC

Time	Session Title / Activity	Details /Speakers	Chair
07:30-08:15	Registration & Networking Breakfast		
Morning Forum Population-Scale Genomics			
08:15-08:45	Opening Plenary Lecture Singapore National Precision Medicine Program: Powering Research, Innovation and Enterprise on a National scale	Patrick Tan Dean (Designate); Senior Vice Dean, Office of Research, Singapore	Ambroise Wonkam Professor of Genetic Medicine and Director of the McKusick-Nathans Institute, Johns Hopkins University, USA.
SESSION-1 Global and Regional Expert Insights on Large Scale Genomic Studies and Artificial Intelligence Initiatives KEYNOTE LECTURE SERIES			
08:45-09:05	Rare Lessons, Common Gains: How Rare Diseases Illuminate the Path of Precision Medicine	Fowzan Alkuraya Chief Medical & Genomics Officer, Lifera Omics, KSA	Tawfeg Ben Omran Division Chief, Genetic and Genomic Medicine – Sidra Medicine Senior Consultant, Department of Medical Genetics – HMC, Qatar AND Sonia Davila Executive Director of Translational Medicine, Sidra Medicine, Qatar
09:05-09:25	Screening 100,000 Newborns Using Whole Genome Sequencing: The Generation Study.	David Bick Principal Clinician, Genomics England and Generation Study, UK Genomics England, UK	
09:25-09:45	Harnessing our African Genomes to Improve Health Globally	Ambroise Wonkam Professor of Genetic Medicine and Director of the McKusick-Nathans Institute at School of Medicine, Johns Hopkins University, USA	
09:45-10:00		Hamdi Mbarek Director, Research and Partnerships, QPHI, Qatar.	
Panel Discussion			

Scaling Genomics for National and Global Precision Medicine

10:00-10:30	Can Regional Genomic Initiatives Influence Global Health Priorities?	David Bick Principal Clinician, Genomics England and Generation Study, UK	Sonia Davila Executive Director of Translational Medicine, Sidra Medicine, Qatar AND Reem Al-Sulaiman Chair, Medical Genetics Department, Hamad Medical Corporation, Qatar
		Ambroise Wonkam Professor of Genetic Medicine and Director of the McKusick-Nathans Institute at School of Medicine, Johns Hopkins University, USA	
		Hamdi Mbarek Director of Research and Partnerships , Qatar Precision Health Institute (QPHI), Qatar	
		Fowzan Alkuraya Chief Medical & Genomics Officer, Lifera Omics, Saudia Arabia	
		Fahad Al-Mulla Chief Scientific Officer& Head of the Translational research Department, Dasman Diabetes Institute- Kuwait	

10:30-11:00	Networking Break and Travel Award Winner Presentation Multi-Omics in Precision Medicine: Early Detection of Relapse and Therapy Response Profiling to Guide Clinical Decisions in Pediatric Acute Myeloid Leukemia Borhan Radman Saeed University of Tuebingen, Germany		
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SESSION-2

Enablers of Innovation: Building Qatar's Research Capacity for Impact

11:00-11:15	QSTP: A National Platform for Transformative Technology and Entrepreneurship	Moza Al-Naemi Business Engagement Lead, Qatar Science and Technology Park (QSTP)	Hamad Ali Yaseen Associate Professor of Genomic Medicine at Kuwait University and Senior Researcher, Dasman Diabetes Institute, Kuwait Sandi Deans
11:15-11:25	QRDI's Role in Shaping Qatar's Life Sciences Research and Innovation Landscape	Sara Al Abdulla Senior Scientific Research Program Manager – Biomedical and Health Qatar Research, Development, and Innovation Council (QRDI), Qatar	
11:25-11:35	Bioinformatics at UDST: Contributing to Qatar's Roadmap to Impact"	Mohammad Asif Khan Associate Dean, College of Computing and IT, University of Doha For Scienec and Technology (UDST), Qatar.	

11:35-11:45	Precision Medicine Opportunities: the new paradigm of pediatric and adults' genetics health	Reem Alsulaiman Chair, Medical Genetics Department, Hamad Medical Corporation, Qatar	Director of Genomics Quality Assessment (Gen-QA), UK
11:45-12:00	Personalized medicine: from rare diseases to cancer	Vladimir Katanaev Scientific Director of the Translational Oncology Research Center, Qatar Biomedical Research Institute, Qatar.	
SESSION- 3 INDUSTRY SPONORED TALKS			
12:00-12:20	Industry Sponsored Talk Genomics and AI Innovation: Cisco's Vision for Next-Gen Precision Medicine	David Coldwell Global AI Executive, Cisco, USA	Mark Hughes Chief Commercial Officer, Zetta Genomics, UK
12:20-12:30	Industry Sponsored Talk The Human Genome Projects in China: From HGP-to-HGP 2	Yan Li Principal Research Scientist, Beijing Genomics Institute, China	
12:30-01:30	Lunch Time and Industry Workshops		
SESSION-4 Precision Snapshots: Fast-Track Scientific Highlights			
01:30-01:45	Cross-species insemination reveals mouse sperm ability to enter and cross the fish micropyle	Fatima Al-Ali Reproductive Biology Lab, Translational Medicine, Sidra Medicine, Qatar	Kholoud Al Shafai Scientist, Translational Medicine, Sidra Medicine, Qatar AND Ameera Sadoun Scientist, Translational Medicine, Sidra Medicine, Qatar
	Sequential CRISPRi Screens Reveal Cardiomyocyte Development Abnormalities Associated with Congenital Heart Disease Risk Genes	Tasneem A. M. Ebrahim Mindich Child Health and Development Institute & Institute for Regenerative Medicine, Icahn School of Medicine at Mount Sinai, USA	
	Combined STR Haplotyping and CMA Strategy for PGT-M of a 113-kb TCOF1 Deletion	Mohthash Musambil Thuriah Medical Center, Saudi Arabia	
	From DADA2 Suspicion to LACC1 Deficiency: Integrating Genomics and Functional Studies in Diagnosing Autoinflammation.	Rafah Mackeh Staff Scientisti, Immune Dysregulation Program, Sidra Medicine, Qatar	
	Unveiling the Genetic Architecture of Monogenic childhood Obesity in Qatar	Idris Mohammed Postdoctoral Fellow, Precision Genomics and Translational Omics Lab, Sidra Medicine, Qatar	

	Precision Medicine Landscape of Parkinson’s disease in Emiratis Revealed by Multi-Omics Analysis and de novo assembly building	Dia Advani Mohammed Bin Rashid University of Medicine and Health Sciences, UAE	
	Reanalysis of unresolved rare genetic disorders in a pediatric cohort through long-read sequencing	Amal Ibrahim Qatar University	
Industry Partner Spotlight: VERTEX			
01:45-02:00	Next-Gen Therapies for Patient Impact	Chiara Cugno Director - Advanced Cell Therapy Core, Sidra Medicine, Qatar.	Essam Abdelalim Principal Investigator, Translational Medicine, Sidra Medicine, Qatar
SESSION-5 Enabling Innovation and Investment in Qatar’s Knowledge Economy			
02:00-02:15	Qatar Free Zone	Sara Al-Jassim Associate - Business Development, QFZ, Qatar	Luis Saraiva Principal Investigator, Translational Medicine, Sidra Medicine, Qatar
02:15-02:30	Invest Qatar	Nasser Ali Al-Kaabi Senior Specialist Investor Relations Invest Qatar	
SESSION-6 Integrating Genomic Discovery, AI, and Therapeutic Development into Clinical Practice			
02:30-02:50	AI-driven integration of drug discovery and development into routine clinical care	Calum MacRae Vice Chair for Scientific Innovation, Department of Medicine, Brigham and Women’s Hospital and Associate Professor of Medicine at Harvard Medical School, USA	Abubakr Imam Division Chief, Nephrology and Hypertension, Sidra Medicine, Qatar
02:50-03:10	Developmental and Disease-Related Remodeling of HSC Identity	Ana Cvejic Professor, Biotechnology Research and Innovation Centre (BRIC), University of Copenhagen, Denmark	
03:10-03:40	NETWORKING BREAK AND AWARDING CEREMONY 2		
SESSION-6 (Cont.)			
03:40-03:50	Using AI for Precision Medicine at Scale: a perspective from industry	Joseph Lehar Advisor to biotech and venture funds	Bernice Lo Director and Principal Investigator, Immune Dysregulation Program, Sidra Medicine, Qatar
03:50-04:10	Advanced genomic approaches for rare and undiagnosed	Uğur Özbek Director, Rare and Undiagnosed Disease Platform	

	diseases. Insights into improving diagnostic outcomes	IBG-Izmir Biomedicine and Genome Center, Turkey	
04:10-04:30	From Populations to Cells: Precision Health Through Human Molecular Profiling at Scale	Claudia Langenberg Director, the Precision Healthcare University Research Institute at Queen Mary University of London, UK.	
SESSION-7 CLOSING DEBATE			
04:30-05:00	We've Sequenced a Nation — What Comes Next?	Nicholas Katsanis Co-Founder, Executive VP, and Chief Science Officer, Galatea Bio, USA. Manolis Dermitzakis President, Qatar Precision Health Institute, Qatar	Ammira Akil Director and Principal Investigator, Metabolic and Mendelian Disorders Clinical Research Program, Sidra Medicine, Qatar
THE SUMMIT CLOSING CEREMONY			
Reflections: The Takeaways- Khalid Fakhro - Chief Research Officer, Sidra Medicine			
PMFG 2026 Announcement			