



Functional Genomics Symposium: Towards Precision Medicine

11-13 December 2017
The St. Regis Hotel- Doha

Program Schedule

Conference Objectives:

- Learn about ongoing local and international efforts towards precision medicine in the Middle East.
- Learn about how precision approaches can improve Maternal Fetal and Pediatric Healthcare.
- Learn about Genomics contribution to complex disorders.
- Understanding Novel approaches and emerging technologies towards precision medicine.

Day 1: Monday 11 December 2017

07:00 – 7:50	Registration and refreshments
Introduction session Objective:	Introduction and overview of Sidra Research achievements/ updates on Qatar Genome Programme and Qatar Foundation Research Strategy
08:00 – 08:05	Welcome note Mr. Peter Morris CEO, Sidra Medicine - Qatar
08:05 – 08:10	Overview of Sidra Research Achievements Dr. Ena Wang Sidra Medicine - Qatar
08:10 – 08:15	The Functional Genomics Symposium Series Dr. Khalid Fakhro Chair of the Functional Genomics Symposium 2017
08:15 – 08:40	“Qatar Genome Programme: Coming of Age” Dr. Asma Al Thani Qatar Genome Program- Qatar
08:45 – 09:05	“QF R&D Biomedical Research Strategy: Beyond Mission Driven Research” Dr. Hadi Abderrahim Qatar Foundation Research and Development- Qatar
09:10 – 09:50	“Autism spectrum disorder: genomes to precision medicine applications” Opening Keynote: Dr. Stephen Scherer Hospital For Sick Children- Canada
09:50 – 10:05	Coffee break
Day 1 Session 1:	Efforts Towards Personalized Medicine in The Middle East
Moderator:	Dr. Ibrahim Janahi , Sidra Medicine – Qatar
Objective:	To learn about ongoing projects in the region focused on personalized medicine
10:05 – 10:40	“Medical Genetics & Genomic Medicine in Turkey” Keynote speaker: Dr. Tayfun Özçelik Bilkent University - Turkey
10:45 – 11:10	“Precision Medicine in Oman: Success and Challenges” Dr. Anna Rajab Muscat Private Hospital and Burjeel Hospital - Oman
11:15 – 11:40	“Peptomics And Systems Biology For Personalization Of Cancer Treatment” Dr. Serhiy Souchelnyskyi College of Medicine, Qatar University - Qatar
11:45 – 12:05	“Deconstructing tissues through transcriptomics” Dr. Luis Saraiva Sidra Medicine - Qatar
12:10 – 12:30	“Personalized Medicine In GI, Past, Present And Future” Dr. Mamoun Elawad Sidra Medicine - Qatar
12:30 – 13:40	Lunch break

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Day 1 Session 2: Genomics in Precision Medicine: Large Cohorts Studies

Moderator: Dr. Luis Saraiva, Sidra Medicine – Qatar

Objective: To learn about the power of large cohort studies for precision medicine

13:40 – 14:15 **“De Novo Mutations in Health and Disease”**

Keynote speaker: Dr. Joris Veltman
Newcastle University - UK

14:20 – 14:45 **“Deciphering the Genome: Community Driven Approaches”**

Dr. Heidi L. Rehm
Harvard Medical School - USA

14:50 – 15:15 **“The Path Of Precision Medicine: From Discovery To Patient Care”**

Dr. Alan Shuldiner
Regeneron Genetics Center - USA

15:15 – 15:30 **Coffee break**

Moderator: Dr. Nahla Afifi , Qatar Bio Bank - Qatar

15:30 – 16:00 **“Using Massive Global Reference Datasets Online”**

Dr. Simonne Longerich
WuXi NextCODE - USA

16:05 – 16:30 **“Genetics Of Metabolic Traits: Lessons From Isolated Populations”**

Dr. Torben Hansen
University of Copenhagen - Denmark

16:35 – 17:00 **“Towards Precision Medicine In Arab populations: Lessons from thousands of Qataris”**

Dr. Khalid Fakhro
Sidra Medicine - Qatar

17:00 – 17:05 **Closing remarks**

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Day 2: Tuesday 12 December 2017

07:00 – 7:30 Registration and Refreshments

07:35 – 08:45 **Competitive travel abstracts presentations – 3 talks @ 20 minutes each**
Moderated by Prof. Khaled Machaca - Weill Cornell Medicine – Qatar

Day 2 Session 1: Precision Medicine in Chronic Diseases and Cancer

Moderator: Prof. Khaled Machaca - Weill Cornell Medicine – Qatar

Objective: To learn about how precision medicine information is being used to study complex disorders and cancer

08:50 – 09:25 **“Amyotrophic Lateral Sclerosis: Genetics In Opening New Therapeutic Avenues”**

Keynote speaker: Dr. Christopher E Shaw
Institute of Psychiatry, Psychology and Neuroscience - UK

09:30 – 09:55 **“Immunogenomics: Towards Personalized Cancer Treatment”**

Dr. Davide Bedognetti
Sidra Medicine - Qatar

10:00 – 10:25 **“Managing Health and Disease Using Omics and Big Data”**

Dr. Tejaswini Mishra
Department of Genetics, Stanford University School and Medicine - USA

10:30 – 10:45 **Coffee break**

Moderator: Dr. Farah Zahir, Hamad bin Khalifa University- Qatar

10:50 – 11:15 **“Personalized Medicine in Cancer”**

Dr. Arash Rafi
Weill Cornell Medicine - Qatar

11:20 – 11:45 **“Direct-to-Consumer Predictive Genomics DNA Profiling”**

Dr. Marios Kambouris
Sidra Medicine - Qatar

11:50 – 12:15 **“Cancer Genetic Program Experience From Qatar”**

Dr. Salha Bujassoum
National Center for Cancer Care and Research - Qatar

12:20 – 13:45 **Lunch break**

Day2 Session 2: Personalized Medicine in Early Life (Fetal Maternal and Pediatrics)

Moderator: Dr. Jan Olofsson , Sidra Medicine – Qatar

Objective: To learn about new ways that personalized medicine is being applied to childhood disorders and maternal medicine

13:45 – 14:20 **“Cell Free Nucleic Acid For Prenatal And Postnatal Assessment”**

Keynote speaker: Dr. Lee Shulman
Northwestern University – USA

14:25 – 14:50 **“Improving Care Through Genomic Medicine: Neonatal Diabetes As A Case Example”**

Prof. Sian Ellard
University of Exeter Medical School, Royal Devon & Exeter Hospital - UK

14:55 – 15:20 **“Discovering genes of large effect in very early onset psychosis and other rare and orphan conditions”**

Dr. Catherine Brownstein
Boston Children's Hospital and Harvard Medical School - USA

15:25 – 15:35 **Coffee break**

Moderator: Dr Marios Kambouris, Sidra Medicine - Qatar

15:35 – 16:00 **“A Platform For Personalized Cystic Fibrosis Medicine”**

Dr. Shafagh Waters
miCF Research Centre - Australia

16:05 – 16:30 **“The Reality Of Precision Health For Pediatric Immune Defects”**

Dr. Stuart Turvey
The University of British Columbia - USA

16:35 – 17:00 **“Molecular Diagnosis Of Immune Dysregulation Disorders Lead To Targeted Treatments”**

Dr. Bernice Lo
Sidra Medicine - Qatar

17:00 – 17:05 **Closing remarks**

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Day 3: Wednesday 13 December 2017

07:00 – 07:25 Registration and Refreshments

07:25 – 08:25 **Oral abstract presentations – 5 talks @ 10 minutes each**
Moderated by Dr Egon Toft, College of Medicine -Qatar University – Qatar

Day 3 Session 1: Novel Approaches and Technologies Enabling Precision Clinical Practice

Moderator: Dr. Egon Toft , College of Medicine -Qatar University – Qatar

Objective: To learn about new technologies and methods that are making medicine more personalized in the clinic

08:30 – 09:05 **“The Enigma Consortium: Mapping Human Brain Diseases With Imaging & Genomics In 50,000 Individuals From 35 Countries”**

Keynote speaker: Dr. Paul Thompson
University of Southern California – Los Angeles - USA

09:10 – 09:35 **“Genome Assembly: Recent Update And Applications To Human Genomics”**

Dr. Jason Chin
Software, Whole Biome Inc - USA

09:40 – 10:05 **“Precision Medicine In The Cardiac Catheterization Laboratory”**

Dr. Aimee Armstrong
Nationwide Children’s Hospital - USA

10:10 – 10:25 **Coffee break**

Moderator: Dr. Younes Mokrab, Sidra Medicine - Qatar

10:30 – 10:55 **“The Future of HealthCare Delivery”**

Dr. Kamal Jethwani
Partners Healthcare, Harvard Medical School - USA

11:00 – 11:25 **“Computational Tools And Repositories For Translational Medicine In The Post-Genomic Era”**

Dr. George Patrinos
University of Patras - Greece

11:30 – 11:55 **“Artificial Intelligence In Medicine: A Practical Approach”**

Dr. Deepak Kaura
Sidra Medicine - Qatar

12:00 – 12:15 **Poster awards distribution and closing remarks**

by Dr. Myles Axton, Nature Genetics - USA

12:15 - 13:20 **Lunch**

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