

**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:** | **Introducation and overview of Sidra Research achievments/ 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 | **“Peoteomics And Systems Biology For Personalization Of Cancer Treatment”**  Dr. Serhiy Souchelnytskyi  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** | | | |
| **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** | |  | | |

|  |  |  |
| --- | --- | --- |
| **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** | |

|  |  |  |
| --- | --- | --- |
| **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 Huan 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 Childern’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** | |