

"Functional Genomics and Beyond: Nature Via Nurture" $12^{th}-14^{th}\ December\ 2016$ Qatar National Convention Center

Monday, 12th December, 2016

Day 1 Session 1	National/International Genome Project Updates
07:00 - 08:00	Registration and refreshments
08:00 – 08:05	Welcome Note Ena Wang, M.D. Division Chief Translational Medicine, Sidra Medical and Research Center, Qatar
08:05—08:10	Opening Remarks Hadi Abderahim, M.D., Ph.D., MBA Strategy Lead, Healthcare and Biomedical Qatar foundation, Qatar
Moderator	Rusung Tan, M.D. Ph.D. FRCPC Chair of Pathology, Sidra Medical and Research Centre Professor of Pathology & Laboratory Medicine Weill Cornell Medical College-Qatar
08:10 – 08:45	Key Note Speaker Qatar Genome Programme; Opportunities and Challenges Asmaa Ali J F Althani, Ph.D., Chair of the Qatar Genome Programme Committee Dean of College of Health Sciences, Qatar University, Qatar
08:45 – 9:15	The International Human Epigenome Consortium (IHEC): a model for coordination in epigenetic



	Eric Marcotte, Ph.D., Associate Director of the Regenerative Medicine and Nanomedicine Initiative (RMNI) of the Canadian Institutes of Health Research (CIHR), Canada
09:15 – 09:45	The Saudi Genome Project: What Have We Learned? Fowzan Alkuraya, M.D. , King Faisal Specialist Hospital and Research Center, Kingdom of Saudi Arabia
09:45 – 10:15	Implementing genomics in clinical practice in Canada Catalina Lopez Correa, M.D., Ph.D., Chief Scientific Officer & Vice President, Genome British Columbia, Canada
10:15- 10:30	Coffee break
Day 1 Session 1	Continuation of day 1 session 1 National/International Genome Project Updates
Moderator	Justin C. Konje, M.D., FRCOG, MBA Divisional Chief, Center for Excellence in Reproductive Sciences Department of Obstetrics & Gynecology, Sidra Medical and Research Center, Qatar
10:30 – 11:05	Key Note Speaker Nature Genetics and hot topics Myles Axton, Ph.D., Chief Editor, Nature Genetics, USA
11:05 – 11:35	The Irish Genome Initiative Sean Ennis, Ph.D., Director of the UCD Academic Centre of Rare Diseases, School of Medicine and Medical Science, Ireland
11:35 – 12:05	The Sardinian Genome Project Francesco Cucca, M.D.(honors) Director Institute for Genetics & Biomedical Research (IRGB), The National Research Council (CNR), University of Sassari, Italy
12:05 – 13:05	Lunch break and poster view
Day 1 Session 2	Constitutional disorders, early detection and advanced therapy
Moderator	Myles Axton, Ph.D., Chief Editor , Nature Genetics, USA
13:05 – 13:40	Key Note Speaker The Qatari Genome: Implications for Genetic Therapies and Personalized Medicine



	Ronald G. Crystal, M.D., Department of Genetic Medicine Research, Weill Cornell Medical College, USA
13:40- 14:10	Challenges for cell and gene therapy for Hemophilia A Antonia Follenzi, Ph.D., M.D., Associate Professor- Gene Therapy of Hemophilia, Novara University, Italy
14:10 – 14:40	Discovering the molecular etiology of disease leads to effective treatments Bernice Lo, Ph.D., Principal Investigator, Sidra Medical and Research Center, Qatar
14:40 – 15:10	New discoveries in human monogenic diseases reveal critical functions of the NF-kB pathway Qian Zhang, Ph.D., Principal Investigator, Sidra Medical and Research Center, Qatar
15:10- 15:25	Coffee break
Day 1 Session 2	Continuation of day 1 Session 2 Constitutional disorders, early detection and advanced therapy
Moderator	Patrick Tang, M.D., Ph.D., FRCPC Division Chief, Pathology Sciences, Department of Pathology, Sidra Medical and Research Center, Qatar
15:25 – 16:00	Key Note Speaker Genomics of rare disorders in Qatar Khalid Fakhro, Ph.D., Principal Investigator, Sidra Medical and Research Center, Qatar
16:00 – 16:30	Genetic basis of pediatric brain disease: Causes and treatments from special populations. Joseph G Gleeson, M.D., Investigator, Howard Hughes Medical Institute, Department of Neurosciences, Institute for Genomic Medicine, Rady Children's Hospital, University of California, USA
16:30 – 17:00	Hematopoietic stem cell gene therapy for inherited diseases Alessandro Aiuti, M.D., Ph.D., San Raffaele Telethon Institute for Gene Therapy, Italy
17:00 – 17:30	Molecular discoveries of mendelian disorders in middle eastern patients by clinical whole-exome sequencing Tawfeg Ben Omran, M.D., FRCPC, FCCMG Head Clinical and Metabolic Genetics,



Department of Pediatrics, Hamad Medical Corporation, Qatar

17:30—17:35

Closing remarks of day 1

Patrick Tang, M.D., Ph.D., FRCPC

Division Chief, Pathology Sciences, Department of Pathology, Sidra Medical and Research Center, Qatar



Tuesday,13th December, 2016

Day 2 Session 1	Nutritional and environmental genetics
07:00 - 08:00	Registration and refreshments
08:00 - 08:05	Welcome note Marios Kambouris, Ph.D. FACMGG, Acting Chief, Pathology- Genetics at Sidra Medical and Research Center, Qatar
Moderator	Marios Kambouris, Ph.D. FACMGG, Acting Chief, Pathology- Genetics at Sidra Medical and Research Center, Qatar
08:05 – 08:40	Key Note Speaker Mitochondrial DNA and its health relevance Douglas C Wallace, Ph.D., Director, Center for Mitochondrial and Epigenomic Medicine Children's Hospital of Philadelphia, USA
08:40 - 09:10	Success of advanced technology for identification of disease risk for therapy intervention C. Thomas Caskey, M.D., FACP, FACMG, FRSC Professor of Molecular and Human Genetics, Baylor College of Medicine
09:10 - 09:40	Gut Microbiome and Geographical Variation Muhammad Yasir, Ph.D. , King Abdul-Aziz University, Kingdom Of Saudi Arabia
09:40- 10:10	Physical exercise reduces the expression of RANTES and its CCR5 receptor in the adipose tissue of obese humans Lotfi Chouchane, Ph.D. Professor of Genetic Medicine Professor of Microbiology and Immunology, Weill Cornell Medical College, Qatar
10:10 -10:25	Coffee break



Continuation of day 2 Session 1
Nutritional and environmental genetics

	Nutritional and environmental genetics
Moderator	Khalid Al-Ansari, M.D., FRCPC, FAAP(PEM) Chief, Division of Emergency Medicine, Sidra Medical and Research Center, Qatar
10:25 – 11:30	Key Note Speaker Nature versus Nurture in autoimmune diseases: the Sardinian exception Francesco Cucca, M.D.(honours) Director Institute for Genetics & Biomedical Research (IRGB), The National Research Council (CNR University of Sassari, Italy
11:30 – 12:00	Genomic analysis of neurodegeneration John A. Hardy, Ph.D., FMedSci, FRS, Institute of Neurology, UCL Department of Molecular Neuroscience and Reta Lila Weston Laboratories, United Kingdom
12:00 - 12:30	Functional genomic studies of breast cancer Allal Ouhtit, Ph.D., Mph , Department of Biological and Environmental Science, College of Arts and Sciences, Qatar University
12:30 – 13:30	Lunch Break and Poster review
Day 2 Session 2	New Insights into disease/new technology
Moderator	Khalid Hussain, Ph.D., Division Chief - Endocrinology Vice Chair for Research, Department of Pediatrics Medicine, Sidra Medical & Research Center, Qatar
13:30 – 14:05	Key Note Speaker Genomic Analysis to Personalize Cancer Treatment Steven J.M. Jones Ph.D., Professor, FRSC, FCAHS Co-Director & Head, Bioinformatics Genome Sciences Centre, British Columbia Cancer Research Centre, Canada
14:05 – 14:35	New advances in Non-invasive prenatal testing-from research and

Fang Chen, Executive Vice Director- Maternal and Child Health

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14:35 – 15:05	Bioinformatics in translational research Puthen Jithesh, Ph.D., Principal Investigator, Sidra Medical and Research Center, Qatar
15:05 – 15:35	Precision Medicine – different approaches to shared challenges Tonya Masherry, MBA, Market Development Manager for Population & Medical Genomics, Illumina, USA
15:35 – 15:50	Coffee Break
Day 2 Session 2	Continuation of day 2 Session 2 New Insights into disease/new technology
Moderator	Damien Chaussabel, Ph.D. Director, Systems Biology Department, Sidra Medical and Research Center, Qatar
15:50 – 16:25	Key Note Speaker Insights into lymphocyte regulation by studying humans with inherited immune deficiencies Helen Su, M.D., Ph.D., Chief Human Immunological Disease Unit, Laboratory of Host Defenses, National Institute of Health, USA
16:25 – 16:55	Bridging Exome and Whole Genome—CNV Boosted Exome Sequencing Wei Liu, Ph.D. , Director of Clinical Genomic Lab, Sidra Medical and Research Center, Qatar
16:55 – 17:25	New Born Screening in Qatar Ghassan Abdoh, Ph.D. , Senior Consultant of Pediatric Neonatal & Head of HMC's Newborn Screening Program Hamad Medical Corporation, Qatar
	Oral Abstarct Presentation
17:25 – 17:40	Epigenetic regulation and microbiome modulation in genetic predetermined conditions' Susu Zughaier, PhD Assistant Professor, Department of Microbiology & Immunology
	Emory University School of Medicine, USA



17:40—17:55

The medical revolution of nanotechnology: insight on graphene immunogenomic interactions for medical applications

Lucia Gemma Delogu, Ph.D., Assistant Professor, University of Sassari, Italy

17:55 – 18:00 Closing Remarks for Day 2

Ena Wang, M.D.

Division Chief Translational Medicine, Sidra Medical and Research Center, Qatar