Pan Arab Human Genetics Conference 2018

Dubai United Arab Emirates

The Omics Era

Scientific Program

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Hosted by

Shaikh Hamdan Bin Rashid Al Maktoum Award for Medical Sciences

Organized by

CENTRE FOR ARAB GENOMIC STUDIES

Scientific Program

Day 1 | Thursday, 18th January 2018

08:30 - 09:30	Registration	
09:30 - 10:00	Conference & Exhibition Opening	
10:00 - 10:45	**Keynote Lecture:** The Arab Variome: Unlocking the Mysteries of The Human Genome Fowzan Alkuraya	
10:45 - 11:30	Coffee Break and Poster Session A	
11:30 - 12:00	Invited talk: The 100,000 Genomes Project Rare Disease Programme: Achievements and Future Plans | Emma Baple	Precision Medicine
12:00 - 12:15	Genetic landscape of Primary Ciliary Dyskinesia in Arab population. Mahmoud Fassad	
12:15 - 12:30	Cause for early childhood polycystic kidney disease identified. Carsten Bergmann	
12:30 - 13:00	Invited talk: In Cancer Care, a Broad Perspective Matters: Leveraging the Genome to Advance Personalized Cancer Care | Michael Pellini	
13:00 - 13:15	Degradation routes of trafficking-defective VLDLR mutants associated with Dysequilibrium syndrome | Praseetha Kizhakkedath	
13:15 - 13:30	Incorporation of Tumor RNA Sequencing Data in Pathogenicity Classification of Germline Variants | Chimene Kesserwan	
13:30 - 13:45	UAE Human Whole Genome Sequencing by Next Generation Sequencing (NGS): A Pilot Study | Rachel Howley	
13:45 - 14:30	Lunch and Networking	
14:30 - 15:00	Invited talk: Autism, Amazing Minds - Complex Genetics. Owen Rennert	Genomics of Multifactorial Disorders
15:00 -15:15	Genetic Factors Associated with Multiple Sclerosis Risk and Clinical Characteristics in the Kuwaiti Population | Rabeah Altemaimi	
15:15 - 15:30	The Prevalence of DICER1 Variants in Low-risk Pediatric Thyroid Carcinoma Somayyeh Fahiminiya	
15:30 - 16:15	Coffee Break and Poster Session B	
16:15 - 16:30	Intersection of Genetics and Epigenetics in Schizophrenia Saradalekshmi Koramannil Radha	
16:30 - 16:45	Orphan expression profiling in human islets revealed novel genes for type 2 diabetes Jalal Taneera	
16:45 - 17:00	Use of Chromosome Substitution Strains and Derived Congenic Strains to Study the Genetic Architecture of Complex Traits | Soha Yazbek	
17:00 - 17:15	Genetics of Memory and Cognition in the Elderly Vadim Stepanov	
17:15 - 17:30	Multiple GNAS1, FGF23, FGFR3 Genes' Striking Mutations in CKD Patients with SH New Bone Displasia Uglifying Human Face Appearances Sagliker Syndrome Yahya Sagliker	

Scientific Program

Day 2 | Friday, 19th January 2018

08:00 - 09:00	Registration	
09:00 - 09:45	Coffee Break and Poster Session C	
09: 45 - 10:30	**Keynote Lecture:** Leveraging Large-Scale Genome-Wide Association Studies in Diverse Populations to Advance Understanding of the Genetic Contribution to Type 2 Diabetes Susceptibility | Andrew Morris	
10:30 -11:00	Invited talk: The International Consortium of Immuno Deficiency: A Global Approach to the Genetic Diagnosis of Primary Immunodeficiencies | Raif Geha	Current Trends in Human Genetics
11:00 - 11:15	Recessive Genetic Causes of Early Onset Epileptic Encephalopathies | Amal Alhashem	
11:15 - 11:30	Metabolic Profiling as a molecular phenotyping tool provides insights into gene function and disease | Martin Hornshaw	
11:30 - 12:00	Invited talk: Beyond the Human Genome | Jacques Beckmann	
12:00 - 12:15	Deficient activity of Genes Associated with Amino Acid Metabolism Underlies Autosomal Recessive Syndromes of Microcephaly, Hypomyelination, and Epileptic Encephalopathy Ganeshwaran Mochida	
12:15 - 12:30	Deciphering the Molecular Pathogenesis of Asthma using publicly available transcriptomic data | Mahmood Hachim	
12:30 - 14:30	Prayer and Lunch Break	
14:30 - 15:00	Invited talk: Precision Medicine Insights from Thousands of Arab Genomes | Khalid Fakhro	Big Data in Human Genetics
15: 00 - 15:15	Tracing the Dark Matter: Prevalence and Structure of Intra-genic Copy Number Variants in Mendelian Disease Genes in a Large Clinical Cohort | Swaroop Aradhya	
15:15 - 15:45	Invited talk: Missing Heritability & Big Data: Coronary Artery Disease | Pierre Zalloua	
15:45 - 16:30	Coffee Break and Poster Session D	
16:30 - 17:00	Invited talk: The Role of Integrated OMICS in Personalized Medicine | Rifat Hamoudi	
17:00 - 17:15	Whole Genome Sequencing Offers Additional but Limited Clinical Utility Compared to Re-Analysis of Whole Exome Sequencing | Ahmed Alfares	
17:15 - 17:30	Utility of Whole Exome Sequencing for the Early Diagnosis of Pediatric-onset Cerebellar Atrophy Associated with Developmental Delay in an Inbred Population Hisham Megahed	
17:30 - 17:45	Award Presentation & Closing Remarks	

Workshop Program

Day 3 | Saturday, 20th January 2018

	Parallel Workshop 1: Genetic Counselling for Arab Populations	**Parallel Workshop 2:** Ensembl Workshop on Genetic Variation and Gene Regulation
Providers:	Dr. Sonika Sachanadani Phulwani, Dubai, UAE Dr. Alya Qari, Genetic Counsellor, Riaydh, KSA Dr. Hinda Daggag, Genetics Project Specialist, ICLDC, UK	Dr. Emily Perry (Pritchard), Ensembl Dr. Erin Haskell, Ensembl
08:30 - 09:00	Registration	Registration
09:00 - 11:00	Session 1: Introduction to Genetic Counseling	Introduction to Ensembl and Ensembl genes
11:00 - 11:30	Coffee Break	Coffee Break
11:30 - 13:00	Session 2: Genetic Counseling Settings	Viewing genes and locations in the browser
		Looking at known variants in Ensembl
13:00 - 14:00	Lunch	Lunch
14:00 - 16:00	Session 3: Ethics and Genetic Counseling	Analysing your own variants with the Ensembl VEP
		Viewing features that regulate gene expression
		Coffee Break
16:00 - 17:00	Session 4: Role Play	Data Export with BioMart