






Conference of African Society of Human Genetics

16-18 November 2017

AfSHG 2017

Cairo, Egypt
Ritz Carlton

Day 1 - Thursday 16 November 2017

08:00-08:45	Workshop 1: NGS pipeline and data quality control	
8:55-9:30	Opening session (Chair: Amal Mohamed)	
8:55-9:00	Opening remarks by : Chair of conference board Head of Human Genetics and Genome Research Division	Amal Mohamed (Egypt) Mona AbdelRazek (Egypt)
9:00-9:05	Opening remarks by National Society of Human Genetics-Egypt President	Samia Temtamy (Egypt)
9:05-9:10	Opening remarks by AfSHG President	Michele Ramsay (South Africa)
9:10-9:20	Opening remarks on behalf of H3Africa Steering Committee	Ambroise Wonkam (South Africa/Cameroon) 
9:20-9:25	Opening remarks by National Research Centre President	Ashraf Shaalan (Egypt)
9:25-9:30	Opening remarks by Head of Academy of Scientific Research and Technology	Mahmoud Sakr (Egypt)
09:30-11:00	Plenary Session I: African Genomic Research Chairpersons: Michele Ramsay Samia Temtamy Ghada Kamah	
09:30-09:55	African genetic diversity in the dawn of precision medicine	Charles Rotimi (USA/Nigeria) 
09:55-10:20	Human Genetics and Genomics in Egypt	Samia Temtamy (Egypt)
10:20-10:40	Genotyping the ancient royal Egyptians	Yehia Z Gad (Egypt)
10:40-11:00	Building Research Capacity for Infectious Genomic Research: The Impact of H3Africa	Christian Happi (Cameroon) 
11:00-11:30	Coffee Break	
11:30-13:30	Session 1: Medical genetics and diagnostics Chairpersons: Ambrosie Wonka Ekram Fateen Albert Schinzel	
11:30-12:00	Keynote 1: What dysmorphic findings tell us about early developmental pathology	Albert Schinzel (Switzerland)
12:00-12:20	Cytogenomic techniques as a diagnostic tool (MLPA and array CGH)	Amal Mohamed (Egypt)
12:20-12:40	Genetic Services and Medical Genetics - The real world	Prosper Lukusat (DRC)
12:40-12:50	Setting up genetic testing for congenital diseases in Senegal	Rokhaya Ndiaye (Senegal)
12:50-13:00	Morquio-like rare autosomal recessive disorder: A clinical dilemma sorted by whole exome sequencing	Heba Kassem (Egypt)
13:00-13:10	Metabolic Bone Disorders from Clinical and Molecular Diagnosis to Management	Ghada Otaify (Egypt)
13:10-13:20	Whole Exome Sequencing and Hearing Loss: A Case From Cameroon	Kamogela Lebeko (Cameroon)








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13:20-13:30	Genetic Analysis of Disorders of Sex Development associated with Congenital Anomalies	Mona Mekkawy (Egypt)
13:30-13:50	Democratizing Data-Driven Medicine Chairpersons: Mohamad El Sawy Hala Elbassyouni	Venessa Crossland, Sophia Genetics
13:30-14:30	Posters and Lunch	
14:30-16:00	Session 2: Genomics, Ethics and Biobanking Research in an African setting Chairpersons: Jennifer Troyer Azza Saleh Wagida Anwar	
14:30-14:50	Ethical considerations in genomics in Africa	Paul Ndebele (Zimbabwe) 
14:50-15:10	Biobanking for genomics studies in Africa	Moses Joloba (Uganda) 
15:10-15:30	H3Africa genotyping array for GWAS applications in Africa	Ananyo Choudhury (South Africa) 
15:30-15:40	Standardized Biorepositories: Resource for High Quality Samples in a Resource Limited Setting	James Onyemata (Nigeria) 
15:40-15:50	Ethical Legal and Socio-Cultural Issues for Biobanking and Genomics in Zimbabwe	Bazondlile Dube-Marimbe (Zimbabwe) 
15:50-16:00	B4GALT1: A Novel LDL and Fibrinogen-Associated Gene	May Montasser (USA)
16:00-16:30	Coffee Break	
16:30-18:00	Session 3: Stem Cells in Medical Genetics Chairpersons: Eman Abul Ezz Tarek El Badry Melanie Newport	
16:30-16:50	Differentiation potential of Pluripotent Stem Cells correlates to the level of chromodomain helicase DNA binding protein	Shin Kwamata (Japan)
16:50-17:10	Nerve tissue regeneration by dental pulp stem cells (DPSCs)	Misako Nakashima (Japan)
17:10-17:30	Clinical Regenerative Approaches for Maxillofacial Reconstruction: 8 years Experience	Nermeen Ahmad (Egypt)
17:30-17:50	Stem cells for diabetes mellitus treatment: new advances	Reham Aly (Egypt)
17:50-18:00	Revival of periodontal ligament stem cells after cryopreservation	Maha Abdelfattah (Egypt)
17:30-19:00	Human Variome Project Meeting	Open Meeting
19:00	Welcome Function	
Day 2 – Friday 17 November 2017		
08:00-08:45	Workshop 2: Single-Variant Analysis and Gene-Based Analysis	



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09:00-09:30	Plenary session II: Cancer epidemiology in Africa ChairPersons: Raj Ramesar and Ramez Bedwani	
09:00-09:30	Cancer genomics: A global perspective	Tim Rebbeck (USA)
09:30-11:00	Session 4: Cancer Genetics and Genomics Chairpersons: Raj Ramesar Abdel Rahman Zekri Nadia Mokhtar	
09:30-09:50	Proliferation of melanoma and hematopoietic stem cells require a finely tuned interplay between Fanconi anemia pathway and MiTF transcription factor	Filippo Rosselli (France)
09:50-10:10	HPV and Cervical Cancer: new optimal methods for screening	Leon Mutesa (Rwanda)
10:10-10:30	Novel molecular targeted therapies for advanced hepatocellular carcinoma	Abdel-Hady Abdel Wahab (Egypt)
10:30-10:40	H3ABioNet bioinformatics webinar series: Experiences challenges and lessons learnt	Faisal M. Fadlelmola (Sudan) 
10:40-10:50	Gene expression study in young Egyptian rectal cancer patients	Heba Morsy (Egypt)
10:50-11:00	Genetic and epigenetic markers in Egyptian gliomas	Hoda Yousry Abdallah Ibrahim (Egypt)
11:00-11:30	Introduction to Methylation Array Analysis Chairpersons: Moshira Erfan Alaa Kamel	Cerissa French Illumina (Alliance Global)
11:30-11:40	Coffee Break	
11:40-13:30	Session 5: Genetics of rare disorders and Epidemiology Chairpersons: Sonia Abdelhak Hanan Affifi Stylianos Antonarakis	
11:40-12:10	Keynote 2: Trisomy 21, a chromatin disorder?	Stylianos Antonarakis (Switzerland)
12:10-12:30	Genodermatoses research in Egypt	Ghada El Kamah (Egypt)
12:30-12:50	Rare diseases in Tunisia: current situation and perspectives	Sonia Abdelhak (Tunisia)
12:50-13:10	Ellis-van Creveld syndrome: a ciliopathy directly implicated in hedgehog signaling	Victor Ruiz-Perez (Spain)
13:10-13:25	Genetic diagnosis of Egyptian DSD patients: expansion of diagnosis using next generation sequencing	Inas Mazen (Egypt)
13:25-13:35	Tooth morphology aberrations in progeria syndromes- a retrospective study	Mennat I. Mehrez (Egypt)
13:35-13:45	Pharmacogenetics of metabolic syndrome In Tunisia and comparison with worldwide populations	Haifa JMEL (Tunisia)
13:45-14:30	Posters and Light Lunch	
14:30-16:05	Session 6: Neurogenetics and Developmental Disorders Chairpersons: Guida Landoure Lobna Mansour Hoda Tomoum	
14:30-14:50	Neurogenetics in Mali	Guida Landoure (Mali) 
14:50-15:10	Studies of hereditary neurological diseases	Kenneth Fischbeck (USA)



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15:10-15:25	Neurogenetics research in Egypt (Brain malformation)	Maha S Zaki (Egypt)
15:25-15:40	Primary microcephaly and microcephalic osteodysplastic primordial dwarfism: An overview	Ghada Abdel-Salam (Egypt)
15:40-15:55	3D surgery in the treatment of unicoronal craniosynostosis	Tarek Elbanoby (Egypt)
15:55-16:05	The clinical and molecular landscape of intracranial calcifications	Mohamad AbdelHamid (Egypt)
16:05-16:30	Coffee Break	
16:30-17:40	Session 7: NGS approaches and Bioinformatics training Chairpersons: Debo Adeyemo Ahmad Mostafa Sahar Abdel Aty	
16:30-16:50	Decoding inherited diseases in consanguineous families in the era of high-throughput DNA sequencing: Benefits, challenges and pitfalls	Hanno Bolz (Germany)
16:50-17:10	The PACT Network and Bioinformatics in Africa	Hans Hagen (France)
17:10-17:30	Bioinformatics training	Samar Kassim (Egypt)
17:30-17:40	Investigating the genetic causes and biological networks of Sellars' Disorder	Celia van der Merwe (South Africa)
17:40-19:00	AfSHG – AGM - Open meeting	
19:30-22:00	Gala Dinner	
Day 3 – Saturday 18 November 2017		
08:00-08:45	Workshop 3: Weighted Gene Co-expression Network Analysis & Differential Expression Analysis	
09:00-10:00	Plenary session III: Translational genomics in Africa (Chairs: Branwen Hennig and Nabila Abdel Maksood)	
09:00-09:30	Keynote 3: Pharmacogenomics in Africa	Collen Masimirembwa (Zimbabwe)
09:30-10:00	Keynote 4: Genetic syndromes in diverse populations	Maximilian Muenke (USA)
10:00-10:40	Session 8: Common traits with a genetic susceptibility Chairpersons: Charles Rotimi Mona Abdel Razek	
10:00-10:20	Effect of obesity on transcriptomic changes	Ayo Doumatey (USA)
10:20-10:40	Genetic epidemiology of schizophrenia	Raj Ramesar (South Africa)
10:40-11:20	Coffee Break	
11:20-12:55	Session 9: Hereditary disorders of the blood Chairpersons: Prosper Lukusat Lamis Ragab Soheir Adam	
11:20-11:40	Malaria and sickle cell	Ambroise Wonkam (Cameroon /South Africa)



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11:40-12:00	Diagnosis of congenital hemolytic anemias in the era of Next Generation Sequencing	Celeste Bento (Portugal)
12:00-12:20	Mutagenesis in adaptive immunity: Unique setting where error becomes a quality	Said Aoufouchi (France)
12:20-12:35	Hematopoietic stem cell transplantation a success story from genes to therapy	Sally Elfishawi (Egypt)
12:35-12:45	Molecular Characterization of Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency in Egyptian patients	Eman Rabie (Egypt)
12:45-12:55	Analysis of DNA-protein cross-link damage induced by genotoxic agents	Amir Salem (Egypt)
12:55-14:00	Light Lunch	
14:00-15:00	Session 10: Genetics of infectious diseases Chairpersons: Sudha Srinivasan Enoch Matovu Khaled Makin	
14:00-14:20	Non-coding RNAs as new diagnostic markers in HCC patients	Olfat Shaker (Egypt)
14:20-14:40	Inborn errors of immunity and human diseases	Ridha Barbouche (Tunisia)
14:40-15:00	Helicobacter, cancer and co-evolution	Scott Williams (USA)
15:00-16:00	Session 11: Center of Excellence for Human Genetics Chairpersons: Rokhaya Ndiaye Hani Hafez Samia Temtamy Samira Ismail	
15:00-15:10	Hereditary blood disorders	Khalda Amr (Egypt)
15:10-15:20	Skeletal dysplasia	Mona Aglan (Egypt)
15:20-15:30	NGS using customer panel for genetic disorders in Egypt	Mona Essawy (Egypt)
15:30-15:40	Immunogenetics	Naglaa Kholousy (Egypt)
15:40-15:50	From invasive to NIPT: Egyptian experience	Khaled Gaber (Egypt)
15:50-16:00	Genetics of multiple congenital anomalies	Mona Ruby (Egypt)
16:00-16:30	Prize Giving and Closing Remarks Amal Mohamed Ghada Kamah	Michele Ramsay
16:30	Closing	
17:00-19:00	Strategic Planning Meeting - Open Meeting with Panel Discussion	
	Genomics and Translational Research in Africa	
	Current situation and perspectives	
	Facilitator: Charles Rotimi (USA/Nigeria)	
	Facilitator: Sonia Abdelhak (Tunisia)	
	Pannelists:	
	Jennifer Makuba-Maroa (Kenya)	AESA
	Jennifer Troyer (USA)	NIH – H3Africa
	Audrey Duncanson (UK)	Wellcome Trust – H3Africa
	Yehia Zakaria Gad (Egypt)	National Research Centre
	Christian Happi (USA/Cameroon)	H3Africa
	Manj Sandhu (UK)	Sanger Research Institute
	Vicky Nembaware (South Africa)	African Genomic Medicine Training Initiative
19:00-21:00	Dinner	