



# GENOMIC & HUMAN HEALTH IN AFRICA

## Young Scientists Conference

### 2-7Dec /2018

#### Programme outline

Time	Genomics Conference
	<b>DAY 1 (Sunday 2nd December 2018, Ministry of Higher Education &amp; Research, Khartoum)</b>
	<b>OPENING CEREMONY</b>
<b>8:30_9:00</b>	<b>REGISTRATION</b>
<b>9:00-9:30</b>	<b>Opening and Welcome</b>
	His Excellency Federal Minister of Health
	Her Excellency WHO Representative
	Representative of his Excellency Minister of Higher Education
	His Excellency Vice Chancellor University of Khartoum
<b>9:30-10:15</b>	<b>Keynote address - GENOMICS &amp; THE FUTURE OF MAN</b>
	<b>Professor Huanming Yang, Human Genome Centre, China</b>
<b>10:15-10:30</b>	<b>Discussion</b>
	Genomics in Clinical Practice
	<b>Neurogenomics Session</b>
	<b>Session chair: Mutaz Amin &amp; Tobias Apinjoh</b>
<b>10:30-10:45</b>	<b>Dr. Samar Salah</b> (ALZHEIMER'S DISEASE BRAIN DEGENERATION: A WHOLE-GENOME ASSOCIATION ANALYSIS)
<b>10:45-10:55</b>	<b>Melka Elamin</b> (NOVEL VARIANTS CAUSING INHERITED LEUKODYSTROPHIES IN SUDANESE FAMILIES)
<b>10:55-11:05</b>	<b>Arwa Babai</b> (EXPLORING THE MOLECULAR BASIS OF HEREDITARY SPINOCEREBELLAR DEGENERATION IN A LARGE SUDANESE FAMILY)
<b>11:05-11:15</b>	Fatima Abuzar (Overlap of polymicrogyria, hydrocephalus, and Joubert Syndrome in a family with novel truncating mutations in ADGRG1/GPR56 and KIAA0556)
<b>11:15-11:25</b>	<b>Ola Elmubarak</b> (Frequency of Selected Multiple Sclerosis Modifier Variants in a Healthy Sudanese Population)
<b>11:25-11:35</b>	<b>Benjamin Adebisi</b> (STIMULATING BETA GLUCOCEREBROSIDASE (GCASE) ACTIVITIES PREVENT ALPHA -SYNUCLEIN AGGREGATION IN PARKINSON'S DISEASE)
<b>11:35-11:45</b>	<b>Rayan Abubakr</b> (Intra-familial phenotypic heterogeneity in a Sudanese family with DARS2-related leukoencephalopathy, brainstem and spinal cord involvement and lactate elevation: a case report)
<b>11:45-11:55</b>	<b>Ashraf Yahia</b> (Hereditary spinocerebellar degeneration in Sudan: maximizing the diagnostic yield through data revisiting )
<b>11:55-12:05</b>	<b>Mohammed Abdalhameed</b> (Exomes Analysis reveals miRNA-646 And miRNA-4739 as novel Schizophrenia biomarkers )
<b>12:05-12:15</b>	<b>Azza Elshafie</b> (HYPERPROLINEMIA IN SCHIZOPHRENIA: UNDERLYING CAUSE OR POTENTIAL RESULT)



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12:15-12:25	<b>Allan Kalungi</b> (Telomere length and Chronic stress in internalizing mental disorders among HIV+ children and adolescents in Uganda )
12:25-12:40	<b>Discussion</b>
12:40-1:40	<b>Lunch break</b>
1:40-3:00	<b>Posters session</b>
3:00-5:00	<b>POLICY FORUM</b>
	<b>Social Event</b>



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<b>Time</b>	<b>Genomics Conference - Traveling to Begrawya (Pyramids of Meroe) - Day 2 (3<sup>rd</sup> December 2018)</b>
<b>6:30</b>	

	<b>DAY 2 (Monday 3<sup>rd</sup> December 2018, Begrawya )</b>
<b>1:50-2:00</b>	Welcome speech: His Excellency Governor of Nile Valley state
<b>2:00-2:40</b>	<b>Plenary Talk</b> <b>Professor Sulma Mohamed</b> (Department of Comparative Pathobiology, Purdue University)
	<b>Cancer Genomics Session</b>
	<b>Session chair : Sara Latif &amp; Eyoab Gebremeskel</b>
<b>2:40-2:50</b>	<b>Vincent Ruttoh</b> (DETECTING NOVEL BIOMARKERS FOR OVARIAN CANCER: ROLE OF RAD51AP1)
<b>2:50-3:00</b>	<b>Oche George</b> (MOLECULAR DOCKING STUDY AND ADME/T PREDICTIONS OF 2 PHENYLAMINOIMIDAZO[4,5-H]ISOQUINOLIN-9-ONES WITH POTENT ANTI-AROMATASE CYTOCHROME P450 ACTIVITY IN BREAST CANCER THERAPY)
<b>3:00-3:10</b>	<b>Okunola Ababi</b> (IN VIVO AND IN VITRO TOXICOLOGICAL STUDIES OF CO-EXPOSURE TO SUPERPARAMAGNETIC IRON OXIDE NANOPARTICLES AND SOLID LIPID NANOPARTICLES)
<b>3:10-3:20</b>	<b>Doaa Ali</b> (MICRORNA 153 EXPRESSION IN BREAST CANCER IN SUDAN, A POTENTIAL BIOMARKER?)
<b>3:20-3:30</b>	<b>Ommniya Yousif</b> (THE BULK OF CANCER ASSOCIATED MUTATIONS IN A CRC FAMILY ARE NOVEL SOMATIC EVENTS AND LIKELY A PRODUCT OF APOBEC3B MUTAGENESIS )
<b>3:30-3:40</b>	<b>Emad Aldin Osman</b> (FREQUENCIES OF BCR-ABL1 FUSION TRANSCRIPTS AMONG SUDANESE CHRONIC MYELOID LEUKAEMIA PATIENTS)
<b>3:40-3:50</b>	<b>Maram Suliman</b> (The role of telomere copy number variation in prognosis of breast cancer and Hepatocellular carcinoma in sudanese patients, a case control study).
<b>3:50-4:00</b>	<b>Nihad Hassan</b> (GENE EXPRESSION PROFILES OF HODGKIN LYMPHOMA (HL) AND ANAPLASTIC LARGE CELL LYMPHOMA (ALCL) CELL LINES)
<b>4:00-4:10</b>	<b>Discussion</b>
	<b>Pharmacogenomics Session</b>
	<b>session chair : Ali Shayoub &amp; Najle Adadi</b>
<b>4:10-5:00</b>	<b>Professor Collet Dandara</b> (Pharmacogenomics research and implementation in Africa: current updates )
<b>5:00-5:10</b>	<b>Hamad Alneel Albagir</b> (PHARMACOKINETICS OF ARTEMETHER-LUMEFANTRINE COMBINATION THERAPY FOR UNCOMPLICATED PLASMODIUM FALCIPARUM MALARIA IN SUDAN)
<b>5:10-5:20</b>	<b>Suaad Bella</b> (CHARACTERIZATION OF SINGLE NUCLEOTIDE POLYMORPHISMS ASSOCIATED WITH RESPONSE TO ANTIDEPRESSANT DRUGS IN SUDANESE POPULATION)
<b>5:20-5:30</b>	<b>Sabah Alrasheed</b> (PHARMACOGENETICS OF FLUOROPYRAMIDINES:



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	ANALYSIS OF DPYD SNPS IN THE SUDANESE POPULATION)
5:30-5:40	<b>Anadil Ahmed</b> (DELETION OF GLUTATHIONE S-TRANSFERASE THETA 1 IN FOUR SUDANESE ETHNIC GROUPS )
5:40-5:55	<b>Discussion</b>
7:30-8:00	<b>Professor Muntasir Ibrahim (Evening lecture )</b>
	<b>Social Event</b>

Time	Genomic Conference
	<b>DAY3 (Tuesday 4th December 2018, Begrawya )</b>
8:30-9:10	Plenary Talk <b>Professor Endashaw Bekele</b> : University of Addis Ababa & Ethiopian Academy of Sciences The Other 'OMICS' and Beyond
	<b>Population Genomics Session</b>
	<b>Session chair : Ubai Kamal &amp; Peris Mbutia</b>
9:10-9:30	<b>Thomas Krahn</b> (Y HAPLOGROUP A00: THE OLDEST HUMAN Y CHROMOSOME SPLIT FOUND IN MALES FROM CAMEROON)
9:30-9:45	<b>Eyoab Gebremeskel</b> (Haplotype Diversity and Structure of Y Chromosome STR and SNPs of East Africans: further evidence to the antiquity of its populations)
9:45-9:55	<b>Ephifania Geza</b> (TOWARDS AN INTEGRATIVE TOOLS FOR MULTI WAY LOCAL ANCESTRY INFERENCE)
9:55-10:05	<b>Fatima Abelhakem</b> (KNOWLEDGE, ATTITUDE AND PRACTICE OF CONSANGUINEOUS MARRIAGE, SUDAN 2018)
10:05-10:15	<b>Maha Mohamed Osman</b> (Ancestral Genomes and the History of Adaptation )
10:15-10:25	<b>Mutaz Amin</b> (Over-dominance Effects between Malaria and Visceral Leishmaniasis in the 5q31 Region)
10:25-10:40	<b>Discussion</b>
10:40-10:55	<b>BREAK</b>
	<b>Animal and Plant Genomics for Human Health</b>
10:55-11:35	Plenary Talk <b>Dr. Hassan Hussain</b> (Genome diversity and adaptations of indigenous Sudanese livestock Breeds) <b>Session chair : Arwa Elsamani &amp; Temitope Sogbanmu</b>
11:35-11:45	<b>Fikirte Adugna</b> (The Epidemic of Rinderpest in the 19th century Ethiopia: In search of Genomic signatures)
11:45-11:55	<b>Charles Oluwaseun Adetunji</b> (DISCOVERY OF A NOVEL AND ECOFRIENDLY BIOPESTICIDES DERIVED FROM WILD TYPE AND TRANSGENIC BRASSICA JUNCEA CALLUS MODULATED WITH GAMMA-TOCOPHEROL METHYLTRANSFERASE GENE FOR SUSTAINABLE AGRICULTURE)
11:55-12:05	<b>Sumaya Kambal</b> (MITOGENOMIC ANALYSIS OF WESTERN BAGGARA CATTLE BREED-NYALAWI POPULATION REVEALED HIGH LEVEL OF HAPLOTYPE DIVERSITY AND POPULATION EXPANSION)
12:05-12:15	<b>Khalid Mohamed</b> (Diversity in Haemonchus contortus: A case study from Sudan)
12:15-	<b>Discussion</b>



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12:30	<b>Microbial Genomics (1)</b>
	<b>Session chair : Ameera Adam &amp; Kenneth Lado</b>
12:30-12:45	<b>Mushal Allam</b> (WHOLE-GENOME SEQUENCING ANALYSES TO INVESTIGATE A NATIONWIDE OUTBREAK OF LISTERIOSIS CAUSED BY READY-TO-EAT PROCESSED MEAT PRODUCTS, SOUTH AFRICA)
12:45-1:00	<b>Tobais Abinjoh</b> (PLASMODIUM FALCIPARUM POPULATION GENOMIC DIVERSITY ALONG THE SLOPE OF MOUNT CAMEROON)
1:00-1:15	<b>Mukhlid Yousif</b> (NEXT GENERATION SEQUENCING PROVIDES COMPARABLE DATA TO SANGER SEQUENCING FOR THE DETECTION OF HIV PROTEASE INHIBITOR MUTATIONS)
1:15-1:25	<b>Alaa Faroge</b> (MOLECULAR CHARACTERIZATION OF HELICOBACTER PYLORI IN PATIENTS WITH UPPER GASTROINTESTINAL DISORDERS, IN WAD MEDANI, GEZIRA STATE, SUDAN (2017-2018))
1:25-1:35	<b>Mustafa Yassein</b> (COMPARATIVE EVALUATION OF RT-LAMP AND RT-PCR FOR DETECTION OF HIV-1 IN THE SUDAN)
1:35-1:45	<b>Bernadether Rugumisa</b> (VAGINAL MICROBIOME AND RISK OF PRETERM BIRTH IN TANZANIAN WOMEN ATTENDING PRENATAL CARE AT MUHIMBILI NATIONAL HOSPITAL)
1:45-1:55	<b>Mohmaed Taha</b> (MINING THE AFRICAN MICROBIOME FOR HEALTH AND DISEASE)
1:55-2:10	<b>Disussion</b>
2:10-3:10	<b>lunch break</b>
	<b>Bioinformatics</b>
	<b>Session chair :Yousuf Hasan &amp; Lina Ahenkorah</b>
3:10-3:20	<b>Oluwafemi Sarumi</b> (HIDDEN MARKOV MODEL FOR ANTICIPATING THE OCCURRENCE OF CANCEROUS TISSUES IN EUKARYOTIC ORGANISMS)
3:20-3:30	<b>Shima Mahalah</b> (COMPUTATIONAL ANALYSIS OF FUNCTIONAL CODING/NONCODING SINGLE NUCLEOTIDE POLYMORPHISMS (SNPS/INDELS) IN HUMAN NEUROG1 GENE)
3:30-3:40	<b>Faisal Koua</b> (A FUNCTIONAL APPROACH TO INVESTIGATE CULTIVABLE HUMAN ORAL MICROBIOME: EXAMPLES OF FIRMICUTES AND YEASTS)
3:40-3:50	<b>Somia Mohammed</b> (INTEGRATIVE ANALYSIS OF CERVICAL CANCER MULTI-OMICS DATA: TOWARDS NOVEL BIOMARKERS DISCOVERY )
3:50-4:00	<b>Arwa Mohammed</b> (EPITOPE - BASED PEPTIDE VACCINE AGAINST FRUCTOSE-BISPHOSPHATE ALDOLASE (FBA) OF MADURELLA MYCETOMATIS USING IMMUNOINFORMATICS APPROACHES)
4:00-4:10	<b>Disussion</b>
	<b>Social Event</b>



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Time	Genomics Conference
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	DAY 4 (Wednesday 5th December 2018, Begrawya )
	Genomics and Public Health
8:30-9:10	<b>Plenary Talk</b> Professor Melani Newport : Brighton and Sussex Medical School . BSMS · Department of Medicine)
9:10-9:50	<b>Professor Moawia Mukhtar:</b> Department of Immunology. Institute of Endemic Diseases. <b>Session chair : Samar Salah &amp; Mohamed Taha</b>
	<b>Microbial Genomics (2)</b>
9:50-10:10	<b>Dr. Muzamil Mahdi</b> (GENOMIC EPIDEMIOLOGY OF VIVAX MALARIA IN THE HORN OF AFRICA)
10:10-10:30	<b>Dr. Sahar Bakhait</b> (METAGENOMIC ANALYSIS OF ENVIRONMENTAL SAMPLES FROM MYCETOMA ENDEMIC AREA IN SUDAN)
10:30-10:40	<b>Eucharía Nwaichi</b> (PROFILING OF COMPLEX MICROBIAL POPULATIONS BY DENATURING GRADIENT GEL ELECTROPHORESIS ANALYSIS OF POLYMERASE CHAIN REACTION-AMPLIFIED GENES CODING FOR 16S RRNA)
10:40-10:50	<b>Zainab Imam</b> (INDUCTION OF EXPRESSION OF PLASMODIUM FALCIPARUM PFS16, PFS230, PFS25, AND PFG27 GAMETOCYTE GENES FOLLOWING IN VITRO STIMULATION WITH ANTI-MALARIAL DRUGS ARTESUNATE, SULFADOXINE, PYRIMETHAMINE, QUININE, AND MOSQUITO SALIVARY GLANDS PRODUCTS)
10:50-11:00	<b>Hisham Eltayb</b> (THE OCCURRENCE OF CTX-M, TEM AND SHV EXTENDED SPECTRUM B-LACTAMASE GENES AMONG PRODUCING ISOLATES OF ENTEROBACTERIACEAE IN DIFFERENT SUDANESE REGIONS)
11:00-11:10	<b>Rayan Ali</b> (GENETIC SUSCEPTIBILITY TO MYCETOMA IN SUDAN ENDEMIC AREAS)
11:10-11:20	<b>Adil Abdelrahman Ismail</b> Ali (Investigation of epidemiological relationships among brucellosis isolates from Sudan between 2005-2015)
11:20-11:30	<b>AwadAlkareem Masaad</b> (INNOVATIVE METHOD FOR CELLULAR GEONME TAGGING USING CELLS OWN REPLICAT PROTEINS TO INCORPORATE MODIFIED DEOXYNUCLEOTIDES)
11:30-11:40	<b>Mojisola C. Owoseni</b> (Assessment of chlorine tolerant bacteria recovered from wastewater effluent in Eastern Cape Province, South Africa)
11:40-11:50	<b>Ntang Emmaculate</b> (DESIGN OF A MULTI-ANTIGENIC, MULTI-STAGE AND MULTI-EPITOPE POTENTIAL VACCINE CANDIDATE AGAINST ONCHOCERCIASIS AND RELATED FILARIAL DISEASES: ADDING IMMUNOINFORMATICS TO IMMUNOMICS)
11:50-12:05	<b>Discussion</b>
12:05-1:05	<b>Lunch break</b>
1:05-1:45	Plenary Talk <b>Giovanni Romeo</b> : President of the European



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	Genetics Foundation (EGF)
	<b>Mendelian and Rare Disease Genomics</b>
	<b>Session chair : Ashraf Yahia &amp; Eucharia Nwaichi</b>
<b>1:45-2:00</b>	<b>Dr. Guida Landouré</b> (Genomic and genetic medicine in Mali: challenges and perspectives)
<b>2:00-2:10</b>	<b>Hussam Osman</b> (SCREENING FOR 3.7 AND 4.2 DELETION MUTATIONS IN SUDANESE PATIENTS SUSPECTED WITH ALPHA THALASSAEMIA)
<b>2:10-2:20</b>	<b>Safaa Ali</b> (GENETICS OF SUSCEPTIBILITY TO FIBROMYALGIA AMONG SUDANESE POPULATION)
<b>2:20-2:30</b>	<b>Reem Salah</b> (case report :profound biotinidase deficiency caused by ( D444H) resulting in recurrent in recurrent early childhood death in a Sudanese family )
<b>2:30-2:40</b>	<b>Discussion</b>
<b>2:40-3:10</b>	<b>COFEE BREAK</b>
	<b>Cardio &amp; Metabolic Session</b>
	<b>Session chair: Azza Elshafie &amp; Benjamin Adebisi</b>
<b>3:10-3:20</b>	<b>Najlae Adadi</b> (FIRST APPLICATION OF NEXT-GENERATION SEQUENCING IN PATIENTS WITH HYPERTROPHIC CARDIOMYOPATHY IN MOROCCO AND REPORT OF A NOVEL FRAMESHIFT MUTATION OF MYBPC3 GENE)
<b>3:20-3:30</b>	<b>Iquo Philip</b> (TRIB-1 AND MIR-202 LEVELS UNDER CONDITIONS OF METABOLIC AND INFLAMMATORY STRESS IN HEPG2)
<b>3:30-3:40</b>	<b>Hala Abdelazem</b> (ASSOCIATION OF BODY MASS INDEX AND OBESITY RELATED FTO GENE (RS1421085), ( RS17817449)AND (RS9939609) POLYMORPHISMS IN OBESE ADULTS , GEZIRA STATE, SUDAN (2017))
<b>3:40-3:50</b>	<b>Sahar Gamil</b> (ASSOCIATION OF NOS3 GENE POLYMORPHISMS WITH ESSENTIAL HYPERTENSION IN SUDANESE PATIENTS: A CASE CONTROL STUDY)
<b>3:50-4:00</b>	<b>Discussion</b>
	<b>Social Event</b>

<b>Genomics Conference</b>	
<b>DAY 4(Wednesday 5th December 2018, Begrawya )</b>	
<b>Parallel session</b>	<b>"Health, Society, Biology and History of East Africa"</b>



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Time	Genomics Conference
	<b>DAY 5 (Thursday 6th December 2018, Khartoum )Ewa Hotel Conference Hall</b>
	<b>Back from <b>Begrawya (Pyramids of Meroe)</b></b>
<b>3:00-3:40</b>	<b>Professor Emad Fadelamola</b> (GENETIC CLINIC IN ACTION IN SUDAN: AN EXPERIENCE OF DSD)
	<b>Pregnancy Genomics Session</b>
	<b>Session chair : Sami Mahmoud Thomas Krahn</b>
<b>3:40-3:55</b>	<b>Dr. Nazik Karar</b> (pending )
<b>3:55-4:05</b>	<b>Hiba Satti</b> (Frequency and the Types of chromosomal abnormalities in patients with Primary Amenorrhea in Sudan )
<b>4:05-4:10</b>	<b>Sarah Ahmed</b> (HIGH ALTITUDE AND PREECLAMPSIA: ADAPTATION OR PROTECTION)
<b>4:10-4:15</b>	<b>Discussion</b>
<b>4:15-4:30</b>	<b>End of conference speech</b>
<b>4:30-5:30</b>	<b>Policy Forum (part 2)</b>
<b>7:00</b>	<b>EULOGY (The late Professors Luca Cavalli &amp; Elsheikh Mohamed Elsheikh).</b> <b>Ubai Kamal Elgizouli, Muiz Mohamed Elbasher: New insight in cancer from applied mathematics.</b>