

Annex 1: the program for the 13th African Society of Human Genetics conference		
Day 1: 1st September 2021 - Young Investigators' Forum		
Time (EAT)	Chair	Title
7:00 - 8:00	Mohamed Zahir and Aneth David	Welcome note (Dr. SianaNkya, TSHG president)
8:00 - 8:30		Opening speaker (McKusick short course for human and mammalian genetics, Prof Charlie Wray)
8:30 - 9:00	Tea break	
9:00 - 13:00	Dr. Samson Kilaza/Dr. Vicky Nembaware	Ensembl workshop
13:00 -14:00		Lunch break
14:00 - 16:00		Poster viewing
16:00-16:45	Khuthala Mnika and Ismael Adolf	Poster speed presentations (15 presentations, 3 minutes each)
Joint H3Africa/AfSHG		
11:00-12:00		Poster viewing
12:00-13:00		Conference partners exhibitions; 54gene, Illumina, Inqaba
Session 1: opening ceremony: plenary session 1		
13:00 - 13:20		Registration
13:20-13:40	Prof. Christian Happi and Prof. Julie Makani	Welcome of the Tanzania Society of Human Genetics - Dr. Siana Nkya
13:40-14:00		Welcome of the AfSHG President - Prof. Ambroise Wonkam
14:00-14:20		Welcome of the H3Africa (Prof. Christian Happy, Chair H3Africa Consortium)
14:20-15:00		Speeches Honorable Ministers of Health; Higher Education and Research - Tanzania
15:00-16:00		Launching of 'The Lancet Hematology Special Issue on Sickle Cell Disease in Africa'
		1. Overview from the guest editor (Prof Makani), University of Health and Allied Sciences, Dar-es-Salaam, Tanzania (10mins)
		2. Iron-deficiency anaemia - Prof Martin Mwangi, School of Public Health and Family Medicine, University of Malawi, Blantyre, Malawi (10mins)
		3. Blood cancer - Prof Jackson Orem, Uganda Cancer Institute, Kampala, Uganda (10mins)
		4. Sickle Cell Disease - Prof Ambroise Wonkam, Department of Medicine, University of Cape Town, Cape Town, South Africa (10mins)
		5. Blood transfusion - Prof Yvonne Dei Adomakoh, Department of Haematology, University of Ghana Medical School, Accra, Ghana (10mins)
16:00 - 16:30	Tea-break/ poster viewing	6. Questions and answers (10mins)
Plenary session 2		
16:30-17:00	Prof. Michele Ramsay and Prof. Raj Ramesar	Genetics of host-pathogen co-evolution Prof. Scott Williams
17:00-17:30		Genetics of host-pathogen co-evolution Prof. Scott Williams
Parallel session 1: population genetics		
17:30-18:00	Prof. Ghada Kamah and Dr. Arwa Babai	Invited speaker: genetic variation in African populations: migration, admixture, and selection - Prof. Ananyo Choudhury (H3Africa)
18:00-18:30		Phenotype and genotype of inherited retinal disorder in Democratic Republic of Congo (DRC) - Dr Nadine Nsiangani Lusambo

18:30-19:00		Spectrum of genetic diseases in Tunisia: current situation and main milestones achieved - Nessrine Mezzi
Parallel session 2: translational research and pharmacogenomics		
17:30-18:00	Prof. Scott Williams and Prof. Karim Manji	Invited speaker: translational research for childhood complex disease: Prof. Neil Hanchard (NIH)
18:00-18:30		Construction of Hepatitis C virus infectious molecular clones from Cameroonian isolates: an approach for vaccine development: Prof. Marceline Djuidje Ngounoue
18:30-19:00		Dilemma in genomics risk prediction: African polygenic risk scores may enable generalizability and clinical utility: Prof. Emile Chimusa
Day 3: 3rd September 2021		
10:00-11:00	Conference partners exhibitions; 54gene, Illumina, Inqaba	
11:00-12:00	Poster viewing	
Plenary session 3		
12:00-12:30	Prof. Ambroise Wonkam and Prof. David Valle	Data science and genomics in Africa - Prof. Nicola Mulder (H3Abionet)
12:30 - 13:00		Teaching the genome generation - Dr Charles Wray
13:00-14:00		54gene overview
Parallel session 3: developmental disorders in Africa		
14:00-14:30	Prof. Dr. Rokhaya Ndiaye and Dr. Amadou Gaye	Invited speaker: deciphering developmental disorders in Africa (DDD-Africa) - evaluating clinical exome sequencing in an African Setting - Prof. Zane Lombard
14:30-15:00		Invited speaker: genetic diagnosis of developmental diseases - Prof. Leon Mutesa
15:00-15:30		Genetics of spinal muscular atrophy in the Malian population: Aissata Toure
15:30-16:00		Identifying chromosomal abnormalities in patients with suspected congenital disease in Senegal: Dr Andréa Régina Gnilane SENE
16:00 - 16:30	Tea-break/poster viewing	
Parallel session 4: cancer genetics and genomics		
14:00-14:30	Dr. Aleesha & Dr. Vicky Nembaware	Invited speaker: cancer genomics research in Africa - Prof. Funmi Olapade
14:30-15:00		Invited speaker: hereditary or familial colorectal cancer - Prof. Rolf Sijmons
15:00-15:30		A founder pathogenic variant of BRCA1 gene associated with early onset breast cancer in Senegal: Dr Jean Pascal Demba
15:30-16:00		Chlamydia trachomatis infection in cervical abnormalities: Laila Ferrera
Parallel session 5: genetics of rare diseases		
16:30-17:00	Prof. Rolf Sijmons and Dr. Aimé Lumaka	Invited speaker: genodermatosis as an example of rare but relatively common in consanguineous populations - Prof. Ghada El Khama
17:00-17:30		Invited Speaker: Neurogenetics - Prof. Guida Landoure
17:30-18:00		Perching syndrome: clinical presentation of the first African patient - Dr. Prince Makay
18:00-18:30		CAV3 variants in a large family with Limb-Girdle muscular dystrophy from Mali - Mahamadou Kotioubé
Parallel session 6: community engagement and ethical, legal, and social implications		
16:30-17:00	Prof. Himla Soodyall and Dr. Paulina Tindana	Invited speaker: community engagement in genomics - Dr. Syntia Nchangwi
17:00-17:30		Experience from AKRDF & Lupus Warriors Tanzania
17:30-18:00		Experience from sickle cell patients' communities
18:00-18:30		Trauma-related and neutral false memories and associated biological markers in a patient with post-traumatic stress disorders following exposure to 1994 genocide against the Tutsi: Clarisse Musanabaganwa
Day 4: 4th September 2021		

Plenary session 4		
10:00-11:00		Poster viewing
11:00-12:00		Conference partners exhibitions; 54gene, Illumina, Inqaba
12:00-13:00		Side meeting (invited only)
13:00 - 13:30	Prof. Sekou F Traore and Dr. Deus Ishengoma	Genomics of HIV, Ebola and COVID-19 in Africa - Prof. Christian Happi
13:30-14:00		Genetics of cardiovascular diseases - Dr. Segun Fatumo
Parallel session 7: genetics of infectious disease		
14:00-14:30	Prof. Sekou F. Traore & Prof. Scott Williams	Invited speaker: genetic and environmental determinants of host response in malaria - Prof. Youssef Idaghdou
14:30-15:00		EcoR1 Polymorphism of Apoprotein B100 Gene's Exon 29 and Lipid Profile in HIV infected patients: Dr Fatoumata Kone
15:00-15:30		Detecting and assessing the epidemiology of asymptomatic malaria in regions of sub-Saharan Africa: Jasmine Olvany
15:30-16:00		Assessment of prevalence of tuberculosis and diversity of Mycobacterium tuberculosis complex species in Manyara region - Ms. Prudence Masanga
16:00-16:30	Tea break	
Parallel session 8: genetics and genomics of non-communicable diseases		
14:00-14:30	Prof. Mamadou Welle Diallo and Dr. Deus Ishengoma	Improving diagnosis of Burkitt's Lymphoma using circulating tumour and viral DNA from liquid biopsy: Prof. Anna Schuh
14:30-15:00		Loss of Solute Carrier Family 7 Member 8 (SLC7A8) is protective against diet-induced obesity and attenuates adipocyte hypertrophy and inflammation at different fat depots: Reabetswe Pitere
15:00-15:30		Bi-Allelic Novel Variants in CLIC5 Identified in a Cameroonian multiplex family with non-syndromic hearing impairment: Edmond Wonkam
15:30-16:00		HLA-G polymorphisms and their underexplored oncological implications in African populations: Ismael Adolf
Plenary session 5		
16:30-17:00	Prof Michele Ramsay	Future of the genetics of sickle cell disease - Prof. Solomon Ofori Acquah
Sickle cell disease and other hemoglobinopathies		
17:00-17:30	Dr. Gaston Mazandu and Prof. Julie Makani	Invited speaker: pharmacogenomics of sickle cell disease: Dr. Aimé Lumaka
17:30-18:00		Using DNA testing for the precise, definite, and low-cost diagnosis of sickle cell disease and other haemoglobinopathies - Heavenlight Christopher
18:00-18:30		F cell numbers are associated with an X-linked genetic polymorphism and correlate with hematological parameters in patients with sickle cell disease - Florence Urio
Plenary session 6: closing ceremony		
18:30-18:40		Prof Khalid Sadki: 2022 AfSHG meeting
18:40-19:00		Closing of meeting and prize giving