



H3AFRICA

GENOME ANALYSIS WORKSHOP

Disease Gene Discovery in African Populations
Spier Hotel and Conference, Stellenbosch, South Africa

June 02, 2014, 9:00 AM - 4:00 PM

TOPIC	SPEAKER	TIME
Introduction to the workshop	Genome Analysis WG	09:00 - 09:05
Overview of H3Africa	Jennifer Troyer (NHGRI, NIH)	09:05 - 09:15
Study Designs for Disease Gene Discovery: Genotyping (GWAS) versus Sequencing	Kathleen Barnes (Johns Hopkins University)	09:15 - 10:00
Finding disease genes using whole exome capture and sequencing (WES) and WGS approaches; WES <i>versus</i> exome arrays	Phillip Awadalla (CARTaGENE/University of Montreal) Adebowale Adeyemo (NHGRI, NIH)	10:00 - 11:00
	<i>Tea/Coffee Break</i>	11.00 - 11.20
African Genome Variation: Implications for finding and replicating disease genes	Manj Sandhu (Wellcome Trust Sanger Institute)	11.20 - 11.50
One Study, Multiple African populations: Strength or Weakness?	Charles Rotimi (tbc) (NHGRI, NIH)	11:50 - 12:20
Special populations (e.g. admixed populations, population isolates) in gene discovery studies in Africa	Marlo Moller (University of Stellenbosch), Carlos Bustamante (tbc) (Stanford University)	12:20 - 13:15
	<i>Lunch</i>	13:15 - 14:15
PRESENTATIONS & PANEL DISCUSSION Searching for the "ideal" GWAS chip for African populations (panel discussion - custom chip task group, other scientists, industry partners)	Chair: Charles Rotimi (NHGRI, NIH) Presentations: <ul style="list-style-type: none"> • Doing GWAS in African populations using Illumina arrays (<i>Illumina rep</i>) • Doing GWAS in African populations using Affymetrix arrays (<i>Affymetrix rep</i>) • Evaluating current GWAS arrays for studies of African populations - Nicki Mulder (H3ABioNet, UCT) • Designing a new GWAS array for African populations - Zane Lombard (WITS) Panel Michele Ramsay (WITS), Guida Landoure (University of Bamako), Ambroise Wonkam (UCT), Zane Lombard (WITS), Nicki Mulder (UCT), <i>Rep</i> (Illumina), <i>Rep</i> (Affymetrix), <i>Rep</i> (BGI), <i>Rep</i> (CPGR), <i>Rep</i> (Inqaba Biotec)	14:15 - 15:55
Closing remarks	Genome Analysis WG	15:55 - 16.00

Registration deadline: April 28

For more information, visit www.h3africa.org