

UK Biobank Meeting: Population Health Studies and the African research community 2nd to 3rd November 2022 / University of Cape Town, South Africa

PROGRAMME

Wednesda	y 2 nd	November	2022	(Day	1	١
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09:00 – 09:30 Arrival and refreshments

Session 1 - Overview of the global population health landscape

Chair: Professor Dan Stein, Head of Department: Psychiatry & Mental Health, University of Cape Town

09:30 – 09:40	Welcome and IntroductionsSession aims and objectives	Prof. Dan Stein University of Cape Town
09:40 – 10:00	 UK Biobank overview Introduction to UK Biobank Key outputs / research findings so far What is the value of analysing UK Biobank data for African researchers? 	Prof. Rory Collins PI/CEO, UK Biobank
10:00 – 10:15	Why multiple cohorts matter? The IHCC experience Overview of population health studies What is the need for multiple cohorts? Facilitating sharing of best practices	Prof. Geoff Ginsburg Chief Medical and Scientific Officer, All of Us Research Program, NIH (IHCC Co-Chair)
10:15 – 10:30	 Landscape of health research in Africa What exists and is planned in Africa? Best practices and key successes What replication datasets are needed (and where are the gaps?) 	Prof. Michèle Ramsay University of Witwatersrand (IHCC Co-Chair)
10:30 – 11:00	Panel Discussion	All
11:00 – 11:30	Break	

Session 2 - Achieving diversity in large-scale population cohort studies

 ${\it Chair: Professor Karen Sliwa-Hahnle, Director of Cape Heart Institute, University of Cape Town}$

11:30 – 11:40	 Session aims and objectives 	Prof. Karen Sliwa-Hahnle University of Cape Town
11:40 – 11:50	Studying the determinants of disease • Ensuring range of exposures/disease risks	Prof. John Danesh University of Cambridge
11:50 – 12:00	SAPRIN (South African Population Research Infrastructure Network) • Study objectives, research aims	Dr. Kobus Herbst African Health Research Institute

12:00 – 12:10	Non-Communicable Diseases Genetic Heritage Study (NCD-GHS) consortium • Study objectives, research aims	Prof. Segun Fatumo Co-Director, NCD-GHS
12:10 – 12:20	African Population Cohort ConsortiumStudy objectives, research aims	Dr. Kobus Herbst African Health Research Institute
12:20 – 12:30	Relevance of UKB as a large-scale cohort study • Genetic and non-genetic risk factors	Dr. Luca Lotta Regeneron Genetics Centre
12:30 – 13:00	Panel Discussion	All
13:00 – 14:00	Lunch	

Session 3 - Current research focus in Africa and data resources they are accessing

Chair: Dr Obed Ogega, Programmes Manager, African Academy of Science

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14:00 – 14:10	Welcome and IntroductionsSession aims and objectives	Dr. Obed Ogega Programmes Manager, AAS
14:10 – 14:25	 Cardiovascular disease What data resources would be useful; challenges in accessing resources 	Prof. Karen Sliwa-Hahnle Director of Cape Heart Institute University of Cape Town
14:25 – 14:40	 Cerebrovascular disease What data resources would be useful; challenges in accessing resources 	Prof. Mayowa Owolabi Centre for Genomic and Precision Medicine; University of Ibadan
14:40 – 14:55	DiabetesWhat data resources would be useful; challenges in accessing resources	Prof. Andre Kengne Director, SAMRC NCD Research Unit
14:55 – 15:10	 Potential value of UK Biobank Relevance to African researchers Linkages, no. of cases, research possibilities 	Prof. Naomi Allen Chief Scientist, UK Biobank
15:10 – 15:40	Panel Discussion	All
15:40 – 16:10	Break	
16:10 – 16:25	 Mental health What data resources would be useful; challenges in accessing resources 	Prof. Dan Stein University of Cape Town
16:25 – 16:40	 Cancer What data resources would be useful; challenges in accessing resources 	Dr. Mazvita Muchengeti National Cancer Registry
16:40 – 16:55	 Neurodegenerative disease What data resources would be useful; challenges in accessing resources 	Dr. Mahmoud Maina University of Sussex
16:55 – 17:10	 Potential value of UK Biobank Relevance to African researchers Linkages, no. of cases, research possibilities 	Prof. Naomi Allen Chief Scientist, UK Biobank
17:10 – 17:40	Panel Discussion	All

17:40 – 17:50	Wrap-up of Day 1	Prof. Dan Stein University of Cape Town
18:30 – 21:30	Conference Dinner and Networking	

Thursday 3rd November (Day 2)

08:30 - 09:00	Arrival and refreshments	

Session	4 – Accessing UKB data for health-related research
Chair:	Professor Liesl Zühlke. Vice President. South African Medical Research Council (SAMRC)

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09:00 - 09:10	Welcome and IntroductionsAims and objectives	Prof. Liesl Zühlke Vice President, SAMRC	
09:10 - 09:20	UK Biobank and neuro-related dataExamples/deep-dive breadth/depth of data	Prof. Paul Matthews Imperial College London	
09:20 – 09:30	 UK Biobank and cardiac-related data Examples/deep-dive breadth/depth of data 	Prof. Steffen Petersen Queen Mary University of London	
09:30 – 09:40	UK Biobank and genetic characterisationExamples/deep-dive breadth/depth of data	Prof. Jonathan Marchini Regeneron Genetics Centre	
09:40 – 09:50	 UK Biobank and availability of other omics data Examples/deep-dive breadth/depth of data 	Dr Chris Whelan Janssen Pharmaceuticals	
09:50 – 10:00	 GWAS of Pulmonary Function Risk factors African/non-African populations Challenges in accessing the data 	Dr Sinkala Musalula University of Cape Town	
10:00 – 10:10	 Genetic Architecture of Amygdala Nuclei Use of imaging and genetics data in UKB Challenges in accessing the data 	Dr Mary Mufford University of Cape Town	
10:10 – 10:20	 Access to the UK Biobank resource Open science policy Support for LMIC researchers 	Jonathan Sellors Company Secretary, UK Biobank	
10:20 – 10:50	Group DiscussionWhat are the barriers to using the resource?	All	
10:50 – 11:20	Break		
Session 5 – Technology platforms to enable data access			

Session 5 – Technology platforms to enable data access

Chair: Tariq Khokhar, Head of Data for Science and Health, Wellcome

11:20 – 11:30	Welcome and IntroductionsAims and objectives	Tariq Khokhar Head of Data Science, Wellcome
11:30 – 11:45	H3aBionet – Pan-African Bioinformatics Network and CIDRI Data Integration Platform • Experiences, opportunities, challenges	Prof. Nicky Mulder University of Cape Town
11:45 – 12:00	Approach to Data Integration Platforms Experiences, opportunities, challenges	Prof. Nicki Tiffin University of Western Cape

12:00 – 12:15	 Research Analysis Platform and Research Credits Advantages of Platform access to data Accessing research credits 	Dr. Mark Effingham Deputy CEO, UK Biobank
12:15 – 12:30	Democratising access to technology resource ■ Support via AWS Health Equity Programme	Kira Levy Head of Healthcare, AWS
12:30 – 13:00	Panel Discussion	All
13:00 – 14:00	Lunch	

Session 6 - Skills, enablement and collaboration

Chair: Professor Cecilia Lindgren, Director of the Big Data Institute, University of Oxford

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14:00 – 14:10	Welcome and IntroductionsAims and objectives	Prof. Cecilia Lindgren University of Oxford	
14:10 – 14:25	 Data analysis and the skills gap Current issues and identifying obstacles Opportunities for skills/enablement/training 	Prof. Alan Christoffels Director, South African National Bioinformatics Institute, University of the Western Cape	
14:25 – 14:40	Training programmes in Africa Or Coalition of African Research and Innovation (CARI) or AAS Mentorship Scheme	Dr. Laura Povlich Program Officer, NIH Fogarty Centre Harnessing Data Science for Health Discovery and Innovation in Africa programme	
14:40 – 14:55	Opportunities for mentoring/outreach Opportunities to link with other institutes	Paballo Chauke MalariaGen	
14:55 – 15:10	 Technology applied to population health studies Building for the futures, technologies, skills 	Dr. Jonah Cool Science Program Officer, Chan Zuckerberg Initiative	
15:10 – 15:25	 Approaches to help African researchers use UK Biobank Usefulness of findings to African populations – need for replication Research credits Data analysis experience Career development 	Dr. Mark Effingham Deputy CEO, UK Biobank	
15:25 – 15:40	Value to Early Career Researchers • Examples of support/opportunities	Dr. Hannah Meyer Fellow, CSHL Cancer Center	
15:40 – 16:10	Panel Discussion	All (incl. additional panel discussants)	
Summary and closing remarks			
16:10 – 16:30	Next steps and meeting wrap-up	Prof. Rory Collins & Prof. Dan Stein	