Monday, April 14				
Start Time	End Time	Atlantic 1		
8:00 AM	19:30 PM	Registration - Located in the Atlantic Foyer		
8:00 AM	8:30 AM	Session C Posters set up		
8:30 AM	9:00 AM	Opening Networking		
9:00 AM	9:15 AM	Opening Ceremony		
9:15 AM	10:00 AM	Opening Keynote Talk: Aligning bioinformatics to inform public health decision making: Alan Christoffels		
10:00 AM	10:15 AM	Tea Break		
10:15 AM	11:00 AM	SCS Talks		
11:00 AM	11:15 AM	Tea Break		
11:15 AM	12:00 PM	SCS Talks		
12:00 PM	13:00 PM	Lunch		
13:00 PM	14:00 PM	Panel Disussion: Building a Sustainable Bioinformatics Community in Africa		
14:00 PM	14:45 PM	SCS Talks		
14:45 PM	15:00 PM	Tea Break		
15:00 PM	15:45 PM	Closing Keynote Talk: Alia Benkahla		
15:45 PM	16:00 PM	Closing Ceremony		
16:00 PM	16:30 PM	Session C Posters dismantle		
16:30 PM	17:15 PM	Break		
17:15 PM	17:30 PM	Scientific Programme: Welcome and Opening Remarks		
17:30 PM	18:30 PM	Translating computational biology to the clinic: Alan Christoffels		
18:30 PM	20:00 PM	Welcome Reception		

Tuesday, April 15				
Start Time End Time		Atlantic 1	Posters - Atlantic 2	
8:00 AM	18:30 PM	Registration - Located in the Atlantic Foyer		
8:00 AM	9:00 AM		Session A Posters set up	
9:00 AM	10:00 AM	Keynote: The South African experience of sequencing respiratory and meningitis pathogens: from vaccine-preventable pathogens to antimicrobial resistance to outbreaks - Anne von Gottburg		
10:00 AM	10:30 AM	Break		
10:30 AM	10:45 AM	Early Biomarkers of Long Covid (PASC) - Malika Aid Boudries		
10:45 AM	11:00 AM	Augmented kurtosis-based projection pursuit: a novel, advanced machine learning approach for multi-omics data analysis and integration - Tobias Karakach		
11:00 AM	11:15 AM	Using explainable machine learning to enhance breast cancer biomarker discovery in precision medicine - Ouso Daniel		
11:15 AM	11:30 AM	GEMINI: A Breakthrough System for Robust Gene Regulatory Network Discovery, Enabling the Application of GRNs to Industrial Level Genetic Engineering - Ridhi Gutta		
11:30 AM	11:45 AM	Machine Learning for Hypertension Genetics in African Populations - Peace Bassey Osim		
11:45 AM	12:00 PM	Integrating multi-omics datasets with machine learning algorithms in developing clinical decision support systems for cancer management - Itunuoluwa Isewon		
12:00 PM	12:15 PM	Al in Regulatory Genomics: The Role of Silencer Variants in Human Diseases - Di Huang : Ivan Ovcharenko		
12:15 PM	12:30 PM	Leveraging Artificial Intelligence for Predicting Human-Viral Protein-Protein Interactions: A Benchmarking Study to Address Key Challenges - Chaima Hkimi		
12:30 PM	12:45 PM	Identifying genetic biomarkers of dilated cardiomyopathy using whole exome sequencing data from Southern African patients		
12:45 PM	13:00 PM	African Bioinformatics Institute Engagement Session		
12:45 PM	13:30 PM	Networking Lunch		

13:30 PM	14:30 PM		Session A: Poster Presentation
14:30 PM	14:45 PM	Genomics Landscape of Quinolone Resistant and ESBL-producing Klebsiella pneumoniae in Tanzanian Referral Hospitals - Boaz Wadugu et al.	T TOO MALE IT
14:45 PM	15:00 PM	Emergence of novel mosaic G9P[6] rotaviruses through multiple intragenogroup reassortment events post vaccine introduction in Blantyre Malawi - Chimwemwe Mhango	
15:00 PM	15:15 PM	Comparative pangenomics of Streptococcus pneumoniae from Malawi: uncovering genetic variability and pathogenicity - Arash Iranzadeh et al.	
15:15 PM	15:30 PM	Comprehensive Phylogenomic Analysis of Mycobacterium tuberculosis in Ethiopia - Betselot Ayano et al.	
15:30 PM	15:45 PM	Genetic Diversity and Spatiotemporal Distribution of SARS-CoV-2 Variants in Guinea: A Meta-Analysis of Sequence Data (2020–2023)	
15:45 PM	16:00 PM	Biphasic Middle East respiratory syndrome coronavirus incidence in dromedary camels in Northern Kenya, 2022 - 2023 - Brian Ogoti et al.	
16:00 PM	16:15 PM	CAMRAH: A Cloud-enabled workflow for analysis and harmonization of antibiotic resistance gene predictions - Daniella Matute et al.	
16:15 PM	16:30 PM	Simulate Codon Sequences with Darwinian Selection Incorporated as an Ornstein-Uhlenbeck Process - Hassan Sadiq & Darren Martin	
16:30 PM	17:00 PM	Break	
17:00 PM	17:15 PM	Integrating Multiple Learning Strategies into the PHA4GE Wastewater Surveillance Bioinformatics Course - Keaghan Brown et al.	
17:15 PM	17:30 PM	Surveillance Capacity Building through Pathogen Genomics and Bioinformatics Training Across Africa - Siddiqah George et al.	
17:30 PM	17:45 PM	Ethics and governance of Al-powered genomics - Tendayi Mutangadura et al.	
17:45 PM	18:00 PM	Developing an information system for integrating clinical and genomic infectious disease data in Tanzania - Melkiory Beti et al.	
18:00 PM	18:30 PM	Break	
18:30 PM	19:00 PM		Session A Posters dismantle

Wednesday, April 16					
Start Time	End Time	Posters - Atlantic 2			
8:00 AM	18:00 PM	Registration - Located in the Atlantic Foyer			
8:00 AM	8:30 AM		Session B Posters set up		
8:30 AM	9:00 AM	ASBCB Town Hall			
9:00 AM		textToKnowledgeGraph: Generation of Molecular Interaction Knowledge Graphs Using Large Language Models for Exploration in Cytoscape - Favour James et al.			
9:15 AM	9:30 AM	Prelude - Building Research Data Platforms Incrementally: A Guide for Teams of All Sizes - Mitchell Shiell et al.			
9:30 AM	9:45 AM	The African Population Ontology (AfPO): Building a Framework for representing African Populations - Melek Chaouch et al.			
9:45 AM	10:00 AM	Prostruc: An Open-source Tool for 3D Structure Prediction using Homology Modeling - Olaitan Awe et al.			
10:00 AM	10:30 AM	Break			
10:30 AM	10:45 AM	Integrative Epigenomic and Transcriptomic Analysis Reveals Molecular Signatures in Multiple Sclerosis Patients			
10:45 AM	11:00 PM	Reference Genome and Pangenome Construction of Wild Spotted Hyenas (Crocuta crocuta) from the Kruger National Park - Ansia van Coller et al.	An assessment of the genomic structural variation landscape in Sub-Saharan African populations - Scott Hazelhurst et al.		
11:00 PM	11:15 PM	SeqWord Motif Mapper: Unlocking Bacterial Epigenetic Insights - Oleg Reva et al.			
11:15 PM	11:30 PM	Making models work: Matching Human in vitro models to deliver precision medicine - Winston Hide et al.			
11:30 PM	11:45 PM	Afrigen-D Imputation Service: A Comprehensive Platform for African-Specific Genotype Imputation and Polygenic Risk Score Calculation - Mamana Mbiyavanga et al.			
11:45 PM	12:00 PM	Shared Genetic Architecture between Suicidality and Subcortical Brain Volume: A Genome-Wide Association Study - Joel Defo & Raj Ramesar			
12:00 PM	12:15 PM	First Continental African Genome-Wide Association Study Identifies Novel Genetic Loci Associated with Blood Urea Nitrogen and Kidney Function - Gloria Kirabo et al.			
12:15 PM	12:30 PM	Menopause-related changes in the gut microbiome and their association with cardiometabolic diseases in women from four sub-Saharan African countries - Phehello Chauke et al.			
12:30 PM		The African Pangenome Reference Graph Project			
12:45 PM		African Bioinformatics Institute Engagement Session			
12:45 PM	13:30 PM	Networking Lunch			

13:30 PM	14:30 PM		
14:30 PM	14:45 PM	Computational algorithms to identify mechanism-centric biomarkers of treatment response in cancer - Antonina Mitrofanova et al.	
14:45 PM	15:00 PM	Acquisition and persistence of Extended- spectrum beta-lactamase (ESBL) and Carbapenem resistant (CRE) Escherichia coli carriage in hospitalized Kenyan children - Caroline Tigoi et al.	
15:00 PM	15:15 PM	Leveraging Data Balancing and Chemical Encoding Strategies for Robust Al-Based Drug Discovery Pipeline - Ons Masmoudi et al.	
15:15 PM	15:30 PM	Autophosphorylation and Ca2+-binding alter the conformational landscape of Plasmodium falciparum Ca2+ dependent protein kinase 1, impacting stability and ligand binding: contextualising PTM using computational modelling - Charmaine Chido Matimba & Ikechukwu Achilonu	
15:30 PM	15:45 PM	Automated Molecular Docking (AMD) Platform for Ligand-Protein Interaction Studies (LPIS) in Cancers - Rihab Mahjoub et al.	
15:45 PM	16:00 PM	SAHMI and PRISM identify tumor microbiome and link it to cellular programs and immunity cancer - Subhajyoti De et al.	
16:00 PM	16:15 PM	The Gene catalogue and functional analysis of the gut microbiome of lions in Etosha National Park - Carl Belger et al.	
16:15 PM	16:30 PM	Metagenomic profiling of the gut microbiome in African populations: The AWI-Gen 2 Microbiome Study - Luicer Anne Ingasia Olubayo et al.	
16:30 PM	16:45 PM	Break	
16:45 PM	17:45 PM	Keynote: RNA structure prediction: existing approaches, strengths, limitations, and computational challenges - Aïda Ouangraoua	
18:30 PM		Conference Dinner at GOLD Restaurant (ticket	required)

Thursday, April 17							
Start Time	End Time	Virtual	Atlantic 1	Pacific 1	Atlantic 2	Pacific 2	
8:00 AM	17:00 PM	Registration - Located in the Atlantic F	oyer				
9:00 AM	9:10 AM	Overview of EMBL-EBI - Johanna McEntyre	Navigating Data Governance in the Health	Tutorial IP2: Simulation- Based Inference for	Tutorial IP5: Building		
9:10 AM	9:20 AM	Overview of EMBL-EBI Global Engagement programme - ThankGod Ebenezer	Data Ecosystem: An Interactive Multi- Stakeholder Perspective - Nicki Tiffin	Computational Biology: Integrating AI, Bayesian Modeling, and HPC	agentic workflows for bioinformatics.		
9:20 AM	9:30 AM	Panel: Q/A and discussion session	INICKI TIIIIII				
9:30 AM	9:45 AM	Phenotype data collection, harmonisation, management and standards in the DS-I Africa context - Katherine Johnston					
9:45 AM	10:00 AM	The European Nucelotide Archive: open digitial sequence information - Colman O'Cathail					
10:00 AM	10:15 AM						
10:15 AM	10:30 AM	Sequence data types and the role of MGnify on data management and FAIRification - Alexander Rogers					
10:30 AM	10:50 AM	Panel: All speakers					
10:50 AM	11:00 PM						
11:00 PM	11:05 PM	Break					
11:05 PM	11:20 PM	Comparative Genomics: Case studies in two groups of economically important marine finfish - Clint Rhode					
11:20 PM	11:35 PM	Overview of Ensembl data and training - Africa - Aleena Mushtaq					
11:35 PM	11:50 PM	Comparative genomics on public genomics data with Ensembl - Jitender Cheema					
11:50 PM	12:00 PM	Break					
12:00 PM	12:10 PM						
12:10 PM	12:25 PM	Panel: Presenting and showcasing examples/prototypes for low resource optimisation - UniProt - Vishal Joshi					
12:25 PM	12:30 PM	Presenting and showcasing examples/prototypes for low resource optimisation - UniProt - Daniel Rice					
12:30 PM	13:00 PM						
13:00 PM	14:00 PM			Tutorial IP1: Genotype		Tutorial IP4:	
14:00 PM	15:00 PM			Imputation and Data Analysis for African		Introductions to constraint-based	
15:00 PM	16:00 PM			Populations: A Practical		modeling using cobrapy	
16:00 PM	17:00 PM			Tutorial Using AfriGen-D			