



BIO Africa Convention

DIGITAL

23rd-24th August 2021

E-BOOKLET

Advancing Africa's
Biomanufacturing
Value Chains Through Innovation.



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Message from the President of AfricaBio



The theme for the BIO Africa 2021 Digital Convention is Advancing Africa's Biomanufacturing Value Chain through Innovation. This theme expresses the need for the African continent to manufacture its own biotechnology products rather than depend on other developed countries. This urgency for self-sufficiency was brought to light during the COVID-19 pandemic.

As with previous BIO Africa Conventions, this year we aim to bring together key drivers from all parts of the world to engage on biomanufacturing through innovation around biotechnology in Africa. The BIO Africa 2021 Convention will serve as a platform that will provoke conversation, partnerships, collaborations, and networking to advance Africa's biotechnology capabilities. AfricaBio is excited to host the 4th annual BIO Africa Convention and the possible opportunities that will emerge from this forum.

BIO AFRICA CONVENTION PROGRAM AND PARTNERS

Although the BIO Africa 2021 Convention will be held digitally, the Convention Organizing Committee has consolidated a powerpacked program that includes tracks such as Healthcare, Finance, Investments and Market Access, Food Security (and Safety)/ Agriculture, Indigenous Knowledge-based Bio-Innovations & Cannabis Industrialisation, Manufacturing & Industrialisation, Internationalisation, Partnerships & Collaborations, Civil Society/ Advocacy, 4IR and Digital Economy and much more.

The 4th annual BIO Africa Digital Convention is hinged on the support from our partners. Our partners include and not limited to; the Department of Science and Innovation, Technology Innovation Agency, IPASA, eThekweni Municipality, Amgen, BioCiTi Labs, Mail & Guardian, Durban ICC and more.



Launch of The Dr Konji Sebati Female Leaders of Tomorrow Fellowship



In honour of the late Ambassador Dr Konji Sebati (CEO of IPASA and AfricaBio Board member), AfricaBio will be launching the BIO Africa Fellowship Program at this year's Convention. Dr Sebati was very instrumental in setting up the BIO Africa Convention, from its conceptualisation as a platform for facilitating biotechnology development in Africa, to bidding at the 2017 BIO International Convention in San Diego for the rights of AfricaBio to develop and host an independent Pan African edition with its own contextual agenda. Dr Sebati was a very active Member of the Board of AfricaBio, the organisation that hosts the Convention.

The Fellowships will be named Dr Konji Sebati Female Leaders of Tomorrow, which will be awarded/announced at the 2021 BIO Africa Convention. The Dr Konji Sebati Female Leaders of Tomorrow Fellowship is a continuation of the Convention's recognition and support of Women Leaders and Rising Stars within the science field. In 2020, the BIO Africa Convention launched a discussion on Women in Science, Technology, Engineering and Mathematics (STEM) as well as Women Rising Stars in Science, Technology and Innovation (STI). Following from this, AfricaBio and the BIO Africa Convention has made a policy decision to represent females across all sciences, it is planned that future editions of BIO Africa Convention will strive for a 50% representation of Women across all our platforms.

The aim of the Fellowship is to provide opportunities for young female scientists who are looking to diversify away from the laboratory but still have a deep passion for science. There are careers such as in Innovation, Science Communications, Entrepreneurship, Business and Finance which are viable extensions to the scientific domain.



Profiles of Panelists

Day 1



PLENARY 1: Official Opening

DR NHLANHLA SOBANTU MSOMI, holds a BSc (Hons) in Molecular Genetics in Biotechnology degree from Sussex University (UK), and a PhD (Genetic Engineering) from the former University of Natal (now UKZN). He was previously a Founder CEO of MSQ Health (now Akacia Medical). He also co-founded BioPath Laboratories, a molecular Diagnostics company with a focus on HIV diagnostics. He was the founding CEO of one of the first Institutions of the National Biotechnology Strategy (LIFELab) and was later the Interim CEO of the Technology Innovation Agency at its inception. He is the current president and Chairman of AfricaBio, a Biotechnology Industry Association founded in 2000 and that of NextBio, a medical biotechnology company in South Africa

CLLR MXOLISI KAUNDA (HIS WORSHIP THE MAYOR OF ETHEKWINI MUNICIPALITY). He has a rich socio-political activism background. Over the years he has distinguished himself as a committed cadre of the African National Congress. He (Kaunda) has served in various leadership roles in both the ANC Youth League and Provincial structures. Born in Inanda north of Durban, he gained political consciousness early and became active from the tender age of 15. He was involved in student politics and youth political activism during the hard days of violence. Cllr Kaunda, obtained his Diploma in Governance and Leadership from the University of South Africa and an Advanced Diploma in Advanced Governance and Public Leadership from the University of Witwatersrand. From 2000-2006, Kaunda served as a Ward 57 Councillor in Inanda

DR PHIL MJWARA (Director General: Department of Science and Innovation, Acting Director General: Department of Higher Education) has served as the Director General of the Department of Science and Technology (DST) and through this capacity he is responsible for all policy development in the science and technology sector in South Africa, as well as the portfolio management and governance of South Africa's systems of government laboratories. Dr Mjwara has served on various advisory councils and review boards.

MR BHUTI MANAMELA (Deputy Minister of Science and Innovation / Higher Education and Training). His previous portfolio was as Deputy Minister in the Presidency: Planning Monitoring and Evaluation, Youth Development and Administration. Deputy Minister Manamela has been a Member of Parliament since 2009, serving as whip of the Labour and he is a member of the Parliamentary committees on communications and on economic development.

PLENARY 2 : An Africa-centric Conversation on TRIPS Waivers of Patents for COVID-19 Vaccines

DR. LWAZI MANZI (Head of Covid 19 Secretariat, AU) is a trained physician with more than 12 years of experience as a frontline healthcare worker, mostly dedicated to emergency medicine. During The course of her dynamic career, she has assumed multiple leadership positions in the Health Sector and in the Cultural and Creative Industries.

AMB MLUMBI-PETER (MS. XOLELWA MLUMBI-PETER) (Department of Trade and Industry, South Africa Deputy Director General Ms. Xolelwa Mlumbi-Peter has served as South Africa's Chief Negotiator for Africa Multilateral Economic Relations and currently takes up the role of Deputy Director-General (DDG) in the International Trade and Economic Development Division at the DTI

DR MICHELLE MCMURRY-HEATH BIO (Biotechnology Innovation Organization) (President and CEO of BIO) is a medical doctor and molecular immunologist and has become the third chief executive to steward the world's largest biotechnology advocacy group. The focus of her work has been broadening access to scientific progress to ensure more patients from diverse backgrounds can have access to cutting edge innovation.



MS. ANJALI NAYYAR (Executive Vice President, Global Health Strategies [GHS]) and has more than 20 years of experience in global health issues with expertise in developing integrated strategies to impact health policy.

MS BONGIWE MLANGENI (Senior Director for Africa, Global Health Strategies). Experienced Senior Director with a demonstrated history of working in global health, human rights, media and social justice fields. Skilled in Organisational Development, Leadership and Management, Strategic Communication, Policy Advocacy, Fundraising, Grant-making, Training Facilitation, Journalism, Media Relations and Report Writing.

PLENARY 3: Appropriate Human Capital Development for Innovation in Africa

PROF DERRICK SWARTZ was the former vice-chancellor of the University of Fort Hare and Nelson Mandela University. His current position is Advisor: Strategic Projects in Ocean Sciences at Nelson Mandela University in South Africa, where he focuses on innovations which enable African communities to cope with pressures for climate change.

PROF JASPER REES (Vice Chancellor, Botswana University of Agriculture and Natural Resources [BUAN]): Has a goal to transform BUAN into a leading Africa research orientated institute. Prof Rees formerly held advisory and executive positions at the Technology and Innovation Agency and the Agricultural Research Council respectively.

PROF MOSA MOSHABELA (University of KwaZulu-Natal, Chief Medical Specialist and Dean & Head: School of Nursing and Public Health) is a chief medical specialist, and holds the position of Dean in the School of Nursing and Public Health at the University of KwaZulu-Natal. His research portfolio in implementation science and health systems research cuts across multiple disciplines, and involves the design, implementation and evaluation of complex interventions in public healthcare services and programs, and overall seeks to improve access, quality and equity in healthcare, in ways appropriate for resource-poor settings in sub-Saharan Africa

PROF TSHILIDZI MARWALA (University of Johannesburg, Vice chancellor and Principal) is currently serving as a councillor for the National Advisory Council on Innovation, is an executive member of the South African Council for Automation and Computation, and a fellow of the Council for Scientific and Industrial Research.

PLENARY 4: Building Bridges with African Entrepreneurs & Innovators in the Diaspora

MR. ATHERTON MUTEMBWERA: Hutano Diagnostics Ltd, CEO & Founder. Mr. Mutembwera is the Founder and CEO of Hutano Diagnostics Ltd., a start-up developing a diagnostic tools and surveillance platform for diseases caused by Emerging and Dangerous Pathogens which cause recurring epidemics in the African Region.

PROF GILLIAN MARCELLE: Resilience Capital venture LLC, CEO
Prof Gillian Marcelle, PhD leads Resilience Capital Ventures LLC, a boutique capital advisory practice specializing in blended finance. She has a proven track record in attracting investment and focuses on telecoms, fintech, renewable energy and regenerative agriculture. Her speciality is the design and implementation of blended finance strategies that often involve partnerships, ecosystem strengthening and designing architectures for transformational change. She previously held staff roles in development finance with the International Finance Corporation, equity capital markets at JP Morgan Chase and M&A with British Telecom. Her international public service includes appointments with the United Nations and the World Economic Forum, Global Future Council on SynBio. Prof. Marcelle was a tenured Associate Professor at Wits University and maintains research affiliations with MIT, Penn State and academic networks across the globe.

MS PAULINE KOELBL (Founder & CEO at AfriProspect GmbH), is an innovation expert in Developing & Emerging Economies, impact investor and seasoned impact-driven Team Leader with over 20 years' experience in international affairs and philanthropy industries, her passion lies in sustainable innovations, entrepreneurship and empowerment of youth and women.

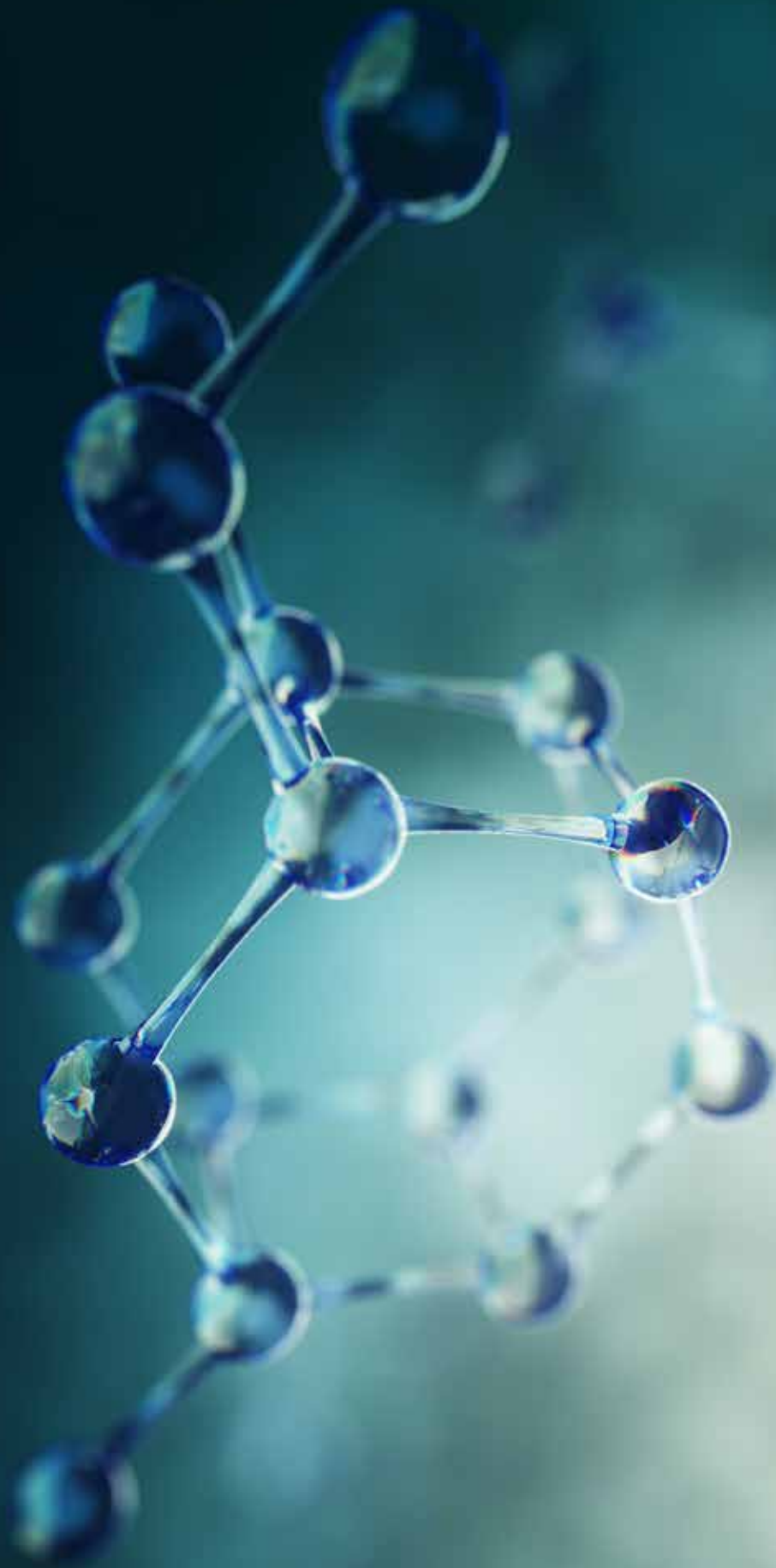
DR YAW BEDIAKO (Chief Executive Officer at Yemaachi Biotechnology) is an immunologist with a broad interest in investigating immune function among African populations in order to better address immunopathology associated with infectious and non-infectious diseases among these populations, and also currently a Crick Africa Network fellow and a member of the eLife Early Career Advisory Group.

DR YEMI ONAKUNLE, Ph.D, MBA – President and CEO of VLP Biotech, Inc has over 25 years’ experience working in the biopharmaceutical industry having served in research and executive business development roles at leading biopharmaceutical companies globally including Lonza, Diosynth Biotechnologies and Merck. Most recently he was Chief Business Officer at Selexis SA based in Geneva, Switzerland where he orchestrated the execution of over 70 partnership and licensing deals with aggregate value in excess of \$1bn and was instrumental to the company’s acquisition in 2017. Yemi is very passionate about fostering relationships aimed at strengthening biotechnology research and innovation on the African continent. Following completion of his bachelors degree in biochemistry at the University of Ibadan, Nigeria, he went on to pursue and receive his Ph.D in microbiology from the University of Kent at Canterbury, and his MBA from the Imperial College Management School, both in the UK.

DR RICHARD SOMIARI, is the owner of ITSI Biosciences and a director of DNA and protein forensic program at ITSI Biosciences. He has worked as the scientific director for Clinical Breast Care Project and a chief operating scientific officer at Windber Research Institute. He holds a PhD in Biochemistry from Lodz University of Technology and Master of Science in Food Science Obafemi Awolowo University.

MR YUSUF HENRIQUES

Yusuf Henriques is the founder and the CEO of IndyGeneUS AI, which is a genomics company creating the world’s largest block-chain encrypted repository of indigenous and diasporic African clinical data for disease prevention and detection, drug discovery and development, clinical disease management, and precision health equity.



Speaker Profiles

Day 1



Track 1: Universal Access to Healthcare through Innovation

H001: Vaccines in Africa

PROFESSOR DINI MAWELA is currently the Head of Department of Paediatrics and Child Health at the Sefako Makgatho Health Sciences University (SMU) and Dr George Mukhari Academic Hospital (DGMHAH). She is also currently the Acting Deputy Dean in the School of Medicine at Sefako Makgatho Health Sciences University. Prof Dini also is a registered Neonatologist and Head of the Neonatal services at DGMHAH/SMU.

DR TSEPO TSEKOA is a principal researcher on developing production processes for biologics manufacture at bench and pilot scale. Study focus has been on applied biotechnology, further has completed training in infectious disease and molecular medicine at the University of Cape Town prior to joining the CSIR. Tsekoa pursues an applied research programme in the combined fields of biochemistry, enzymology and structural biology, and their application to biomanufacturing problems.

H002 : Diagnostics

DR SIBONGILE GUMBI is Founder and CEO of Smart Biotech, a biologics company. She holds a PhD in Pharmacology and an MBA from IMD, Switzerland. Smart Biotech is a bio-pharmaceutical company involved in the development of antigens and antibodies used in vaccines and

diagnostics. Dr Gumbi has held numerous posts in technology and innovation management and serves on a number of Boards including Adcock Ingram, CPT Pharma and Labotec Holdings. She is a Fellow of the African Leadership Initiative and a member of the Aspen Global Leadership Network (USA).

MR DANIEL NDIMA, is the founding CEO at CapeBio Technologies, a South African biotech company that manufactures molecular biology reagents, enzymes and kits. CapeBio recently developed a SAHPRA approved PCR testing kit for the Coronavirus detection and is rolling out Diagnostics research and development locally. Daniel is the prestigious Allan Gray Orbis Foundation fellow and scholar of The Mandela Rhodes Foundation. He strongly advocates for science that creates jobs, improve quality of ordinary lives, and contributes to national development and the economy.

H004: Diversity in Clinical Trials (Sponsored by RISE Amgen)

DR NOMONDE MABUYA-MOLOELE, is the CEO of 3Sixty Health. She is a qualified Occupational Medicine Specialist, Studied Aerospace Medicine and Travel Medicine. Some of her Former clients include SARB, SABN, Telkom, Standard

Bank, Vodacom, Duraset, Necs, and Roche Pharma and Diagnostics. She is a former chairperson Resolution Health Medical Scheme, Health Squared Medical Scheme and a member of the International Women's forum of South Africa. She previously did a few studies overseas namely;

1. Nuclear energy safety and nuclear medicine in Russia-Moscow
2. Non- ionising radiation exposure at the workplace and continued exposure to wireless and base station technology in Switzerland -Geneva.
3. Waste treatment study you in Austria and water treatment plants in the USA
4. BRICS business summit in India-New Delhi

She is a medicolegal expert and con-contributor in the development of the narrative test guidelines, currently used in Road Accident Fund in assessing victims if road crashes in SA. she used to chair the HPCSA RAF Tribunal Committee. Dr Nomonde Mabuza-Moloele is one of contributing occupational medical experts who developed the minimum standard of fitness to perform work in mines, to ensure compliance to the Mine Health and Safety Act. This guideline is now being used by the department of Mineral Energy in SA since the 5th of February 2016



PROFESSOR MOSES JOHN BOCKARIE is the Director of International Cooperation (Africa) and Head of Africa Office of the European and Developing Countries Clinical Trials Partnership (EDCTP). He is also an honorary Professor in the University of Cape Town, and an honorary Chief Specialist Scientist in the South African Medical Research Council. Prof. Bockarie, a Fellow of the Royal College of Physicians of Edinburgh, is a specialist in the field of neglected tropical diseases and an internationally experienced researcher. He has worked in many countries in Africa, Europe and the Pacific region, and in the United States of America.

Track 3: Food Safety (and security)/Agriculture

FSA001: Food & nutrition value chains for improved health

PROFESSOR HETTIE SCHÖNFELDT'S research focuses on linking nutrient quantity and quality of foods to sustainable food systems for attaining nutrition and food security for all. She is an advocate for nutrition research, promoting excellence through the creation, translation, and dissemination of science-based information into policies, programmes and training programmes both nationally, and internationally.

DR BRADLEY FLETT is a Senior Researcher in Plant Pathology at the Agricultural Research Council – Grain Crops and was an Associate Professor where he lectured Hons students in Plant Pathology at the North West University in Potchefstroom. He was the First President of the African Mycotoxin Society and represented the Society on the PACA Committee for 4 years. He has supervised many students doing their MSc and PhD studies at various Universities throughout South Africa. His research has covered various aspects of Plant Pathology with a focus on disease epidemiology and control of diseases on maize, sunflowers and ground nuts. He has 39 years' experience and published 53 scientific articles and presented many presentations at international and local Congresses.

DR NOMUSA DLAMINI is a Principal Research Scientist, specializing in food sciences and technology. She is currently the Acting Manager for the Food Safety Programme at CSIR. She has a PhD in Food Science and Technology, and also holds an MSc in Food Sciences. Dr Dlamini has over 20 years' combined experience in research and academia. She has worked on collaborative projects with local and international partners, authored and co-authored several peer-reviewed publications in and presented at conferences and meetings.

FSA002: Smallholder agriculture for household and national food security

DR. THULASIZWE MKHABELA is a Group Executive: Impact 7 Partnerships. Before joining the ARC, Dr. Mkhabela was Acting CEO at the AgriBusiness Development Agency (ADA) and occupied as Chief Operation Officer. Prior positions were Managing Director at Outcome Mapping, Senior Researcher at the National Agricultural Marketing Council, Lecturer at the University of Stellenbosch and Senior Researcher, Soil Science at the Department of Agriculture in KwaZulu – Natal.

FSA003: Technological innovations for resilient agriculture

PROF SUE WALKER is the principal Researcher Agrometeorology at Agricultural Research Council – Soil, Climate and Water, Pretoria. She is Professor Emeritus in Agromet at the University of the Free State. Her PhD. In-Plant Physiology is from the University of California Davis, USA, following her studies at the University of KwaZulu-Natal in Agricultural Meteorology. She develops climate services translating scientific results into useful operational messages, with experience in Southern, East Africa, and South East Asia on agrometeorological and development projects.

Track 4: IK Based Bio-Innovations & Cannabis Industrialisation

IBB001: Clinical research and innovation value-chains for Africa's manufacturing capacity and commercialization

DR NCEBAKAZI GALADA is a Technology Transfer Manager at the Walter Sisulu University, her roles include supporting WSU researchers, innovators and entrepreneurs in the identification, development, protection and commercialisation of innovation products and intellectual property stemming from WSU research outputs.

DR LUNGILE SHOBA-ZIKHALI is the Managing director of Inkazimulo Yenkosi Empowerment (Pty) Ltd, which focuses on consulting and business incubation. She is also collaborating with Chemin Business Incubator to support Indigenous Knowledge holders and entrepreneurs to grow into sustainable enterprises. She was the Head of the Health Strategic Technology Area at the Technology Innovation Agency (TIA).

PROF. NCEBA GQALENI is a Faculty Member at AHRI, his role is to develop a traditional/natural medicine programme. He is working on the research and development of traditional medicines against Covid-19, HIV and non-communicable diseases. He also leads on policy engagement at the Institute. He is also a member of the WHO (African Regional Office) expert advisory committee on Traditional Medicine for Covid-19.

MS SINAH MOSEHLA is a Director for the Cosmetic sector Desk in the Department of Trade, Industry and Competition of South Africa. She started her career working in the mine sector as an Assistant Environmental Manager where she later joined the DTIC Pharmaceutical desk in 2004 and later joined the Chemical desk in 2008. Part of her responsibilities includes development, implementation and monitoring of sector strategies, policies, and master plans. She has extensive training in Public Administration in areas of policy development and policy implementation, and in Biochemistry. She served on several technical committees and boards in the cosmetics, pharmaceuticals and chemical sectors.

DR CHARAH WATSON is a multidimensional scientist, innovator and entrepreneur. She is an established expert in the field of science and technology and has contributed immensely to the development of the national nutraceutical industry in Jamaica. She is the Executive Director of the Jamaican Scientific Research Council (SRC). She is the founder and chief formulator of Kihara Cosmetics, a beauty and wellness company specializing in all natural products designed to "enhance your beauty naturally".

Profiles of Panelists

Day 2



PLENARY 1:

HON MINISTER, MS THOKO DIDIZA:

Department of agriculture, land reform and rural development, Minister has held several positions in National government departments. She has recently been elected as the Chairperson of the African Union (AU) Ministerial Specialised Technical Committee on Agriculture, Rural Development, Water and Environment. Minister Didiza serves on the board of the Thabo Mbeki Foundation and Ohlange Institute

DR LAWRENCE BANKS (Director General, ICGEB) is a cell biologist with research focussing causative agents of tumours. He has served on the editorial boards of various Journals in the field of microbiology and virology. His Mandate at the ICGEB is to advance the scientific research laboratory in Cape Town to further contribute to the advancement of educating young scientists and promote science and technology intensive solutions to improve quality of life.

DR SIYABULELA NTUTELA graduated with a PhD in Pharmacology from the University of Cape Town focusing on drug discovery and medicinal chemistry. He is currently the CEO of AfricaBio. He also founded and manages Zanalytix Laboratories,

contract analytix services company offering post importation testing in a pharmaceutical industry, and Intini Research and consulting, a biotech consulting firm. Dr Ntutela has worked with several startup companies, assisting them with developing and commercializing their innovations. He also provides strategy consulting to the biotech and pharmaceutical industry. He serves in an expert advisory role for several institutions such as Department of Science and Technology, National Research Foundation (NRF) and the Gauteng Provincial Department of Economic Development and Council for Scientific and Industrial Research (CSIR) through his consulting entity, Intini Research and Consulting (Pty) Ltd.

PLENARY: Rising Stars

MS KELE LEKOAPE is the regulatory affairs manager at Bayer CropScience. She was previously the safety manager at the CSIR and regulatory affairs manager at BASF.

MADAM PHUMZILE MLAMBO-NGCUKA is the former Deputy President of South Africa, and the current executive director of UN Women. She has devoted her career to education and human rights advocacy.

MR. GREG PERRY (Medicines Patent Pool Executive Director, IPASA) .Greg Perry joined the Medicines Patent Pool (MPP) as Executive Director in January 2013, bringing more than 20 years of experience in pharmaceuticals, intellectual property and healthcare policy to the foundation. Prior to his role at the MPP, he served as Founding Director and later Director General of the European Generic Medicines Association. He also was a founding member of the International Generic Pharmaceutical Alliance. Previously he worked as a European Union policy advisor to corporate as well as non-governmental organisations and prior to that as parliamentary advisor to Members of the European Parliament. In 2004, he was awarded the Golden Cross of Merit of the Republic of Poland for his contribution to industry and European integration, one of a few non-Polish nationals to be honored with this distinction.



Perry was a member of the Standing Advisory Committee before the European Patent Office (SACEPO) for five years and is currently an Honorary Life Fellow of the Organisation for Professionals in Regulatory Affairs in the United Kingdom (TOPRA) UK. Under his direction, the MPP has launched new licensing agreements to improve access to HIV treatment in developing countries and recently announced the expansion of its mandate to tuberculosis and Hepatitis C medicines and technologies.

DR. BOITUMELO SEMETE-MAKOKOTLELA is the CEO of the SAHPRA. She has a Ph.D. (Biochemistry) and holds an MSc in Management Finance and Investment. She is also a fellow of the African Leadership Initiative. She managed a biotechnology incubator at The Innovation Hub Management Company. She was with McKinsey & Company for 2 years as a McKinsey Leadership Fellow. Prior to that, she was at the CSIR as a Senior Researcher.

Featuring bright Young Female Stars of the Future in Biotechnology and Healthcare

1. DR. MAKENDRA UMSTEAD, PhD. MaKendra is passionate about making an impact on human health and bringing new therapies to patients in need across the globe. Through a trifecta of scientific expertise, business acumen, and endless curiosity, MaKendra aspires to become a global leader in the challenging yet rewarding pharmaceutical industry. In her current role as Associate Director, Global Marketing at EMD Serono, MaKendra drives global commercial strategy, operations, and execution for both launch and in-line indications in Oncology. Since joining the organization, MaKendra has contributed to the launch of new

therapies for the treatment of cancer and multiple sclerosis, delivered Global, Regional (Europe, Middle East, and Africa), and US marketing initiatives, and worked across Alliance partnerships. MaKendra's professional experience is built on a foundational training as a Cancer Biologist, where her dissertation research focused on elucidating novel oncogenic protein-protein interactions as potential therapeutic targets for drug discovery. This was complemented by an initial exposure to topics of innovation and commercialization through her participation in the African Network for Drugs and Diagnostics Innovation (ANDI) African Health Innovation Workshop and an internship at the Emory University Office of Technology Transfer. These early and inspiring opportunities have served as the catalyst for her career. MaKendra earned her PhD in Cancer Biology from Emory University and a BS in Pharmaceutical Sciences from North Carolina Central University. Outside of work, she enjoys trying delicious cuisines, burning off the calories with dance aerobics, embarking on new travel experiences, and is committed to blazing trails for the next generation to realize their full potential in STEM.

2. MS SIPHOKAZI FEKE (Founder and CEO Brainwave Medical Group), Siphokazi Feke is the Founder and CEO of Brainwave Medical Group (Pty) Ltd. A Clinical Technologist by profession in the subspecialty of Nephrology, she qualified as the first black female in South Africa in the Nephrology subspecialty as a Clin Tech. She spent 10yrs of her 24yr career in Pharmaceutical Business where she looked after different pharmaceutical brands as a sales manager then a product manager for South Africa's JSE listed Adcock Ingram Healthcare. It is here where she cut her teeth in business as she was responsible for taking products to new markets and managing stakeholder relationships with international partners. She left the pharmaceutical business to pursue her growth path by starting her own company in 2010 Brainwave Medical Group leveraging her clinical and business expertise.

3. DR. THANDEKA KHOZA is Biochemistry lecture at School of Life Science at University of KwaZulu Natal. Her research group is focused on caseinolytic protease (ClcP) which are important in the pathogenesis and virulence of various bacterial pathogens including mycobacterium and Klebsiella pneumoniae. Her research is aimed at resulting in novel scientific approaches that can be used to diagnose and manage disease mechanisms at cellular and molecular level. She obtained her Msc in Biochemistry at the University of Witwatersrand studying proteins associated with Diabetes. This was followed by a PhD in Structural biology, which was aimed at understanding the folding mechanism and three-dimensional structure of GSTs. This enzyme is implicated in cancer development and chemotherapeutic resistance. Prior to joining UKZN, she was at the National Health Laboratory, Centre for HIV and STIs as a SPARC Post-Doctoral Fellowship where she was part of a research team that focuses on HIV broadly neutralising antibodies and their interplay with the evolving virus. Recently she has completed an International Master in Vaccinology with University of Lausanne which has broadened her knowledge into how vaccines are designed, developed, manufactured and implemented through public health programs. onstrated history of working in the research industry. Skilled in Analytical Skills Public Speaking, Research, Leadership and Community Development. Strong community and social services professional with a Doctor of Medicine - MD focused in Public Health from University of KwaZulu-Natal.

4. DR NQOBILE GUMEDE (Director Department: Innovation Office), PhD (Medical Microbiology), PGDip (Business Management) Director: Innovation Office (Nelson Mandela University). She is currently the Director of the Innovation Office at Nelson Mandela University,) She is currently the Director of the Innovation Office at Nelson Mandela University, where she also serves as the Chief Executive Officer of Innovolve (Pty) Ltd, a wholly-owned commercialisation



company of the university. In her current role she is involved in the commercialisation of various technologies including those related to the pharmaceutical sector and renewable energy. She also serves on the Board of a technology business incubator, Propella Business Incubator (Pty) Ltd. Similarly, she serves on other advisory boards and committees for various entities involved in the translation of research outputs/ expertise for commercial/societal benefit. Dr Nqobile Gumede's career spans across biotechnology research (AEI Bioproducts and CSIR), sales and marketing (Solvay Pharmaceutical and Amalgamated Beverage Industries), research management (National Research Foundation) and technology transfer (TIA, Wits Enterprise and Nelson Mandela University). She holds a PhD in Medical Microbiology from the University of KwaZulu-Natal, under the mentorship of Dr M. Khati (CSIR), Prof E. Rubin (Harvard University) and Dr A. Pym (UKZN/K-RITH). Dr Gumede has more recently worked for the NRF, an entity of the Department of Science and Innovation, as the Director responsible for national funding of emerging researcher programmes targeted to researchers at South African publicly funded higher education institutions.

5. DR NONHLANHLA MZILA has been the Head of Biotechnology Department at National Bioproducts Institute NPC (NBI) since 2012. The NBI Biotechnology Department manufactures in vitro medical device diagnostic reagents and kits like monoclonal antibodies that recognize malaria proteins and Hepatitis B antigen; the Rhesus typing Rapidtest kit and ELISA kits used for in-process quality control testing of several NBI products. Dr Mzila gained specialities in biotechnology applications having previously worked as a technician at

Unilever, a Research Assistant at UKZN HIV Pathogenesis Programme, as a Research Project Coordinator at MRC HIV Prevention Research Unit, Post-Doctoral Fellow at Technology Innovation Agency and Scientific Manager at Ithemba Pharmaceuticals. Dr Mzila works hard in a team to achieve goals while empowering others. She possesses enduring values that influence strategic decisions using a diplomatic management style.

6. MS EFUA (EFFIE) EDUSEI is a seasoned strategy and business development professional with a passion for healthcare innovation and improving access and solutions to healthcare for under-represented populations. She has almost 10 years of experience in the biopharmaceutical and healthcare technology space, and her global career has spanned three continents across Europe, Africa, and the US. Effie holds an MBA from the Tuck School of Business at Dartmouth, an MSc in Health Policy from the London School of Economics & Political Sciences (LSE), and a BSc in Pharmacology from University College London (UCL).

7. MS SINDISIWE FORTUNATE MUTHWA Sindisiwe's research interests are materials chemistry and nanotechnology with focus in environmental remediation. Her PhD research focussed on the syntheses of new ligands and their integration with metal nanoparticles of silver and gold as a colorimetric sensors to detect potent and hazardous metal ions (chromium, lead and manganese) for elementary detection. The research work compiled as an original one supported by both qualitative and quantitated characterization for synthesized metal nanoparticles, ligands and their colorimetric evaluations as industrialized sensors. She is a South African Chemical Institute (SACI) Postgraduate student representative. Her research study resulted to three peer-reviewed journal articles published, 1 international conference (oral presentation) and 1 national conference (poster).

“PLENARY: Dialogue with Global Biotech Leaders and Closing Ceremony Global Biotech Leaders”

DR DENNIS LIOTTA has helped to transform HIV/AIDS from a death sentence to a chronic infection in which patients are able to live active, near normal lives. Greater than 90% of HIV-infected persons on therapy take (or have taken) one of the two drugs he invented. He has also co-discovered, lamivudine (EpiVir-HBV; CT7001, a Phase II CDK7 inhibitor; Q-122, a Phase II drug for controlling hot flashes in women with breast cancer. In addition, he co-founded, Pharmasset, which developed sofosbuvir (Sovaldi), the breakthrough drug, which in many cases, provides a cure for hepatitis C infection (HCV).

DR LAWRENCE BANKS (Director General, ICGEB) is a cell biologist with research focusing on causative agents of tumors. He has served on the editorial boards of various Journals in the field of microbiology and virology. His Mandate at the ICGEB is to advance the scientific research laboratory in Cape Town to further contribute to the advancement of educating young scientists and promote science and technology intensive solutions to improve quality of life.

SIR RICHARD ROBERTS New England Biolabs, Chief Scientific Officer Richard Roberts is a Nobel Prize-winning biochemist noted for his pioneering work on DNA sequencing and genetic engineering. He is a sought-after scientific advisor and an advocate for wide adoption of GMOs

TONY NDIFOR, PhD, is a Scientific Director in Nonclinical Safety providing toxicology expertise on compound development teams at Johnson & Johnson. Tony has over 23 years of experience providing preclinical safety assessment expertise within drug development teams across a variety of therapeutic areas. He has previously held positions at Parke-Davis in MI, and Amgen in CA and has broad expertise in both biologics and small molecule development. He completed his undergraduate and graduate education at the University of Liverpool, England.

Join these Panelists at the **BIO Africa Digital Convention** that will be taking place from the **23rd – 24th of August**. Register now at www.bioafricaconvention.com



Speaker Profiles

Day 2



BIO Africa

Convention

DIGITAL

Track 5: Manufacturing & Industrialisation

MI001: Intellectual Property and Pharmaceutical Manufacturing in Africa

MR CHRIS WHITFIELD, is Gilead Sciences' Executive Director and Regional General Manager for Africa. As a senior executive with over 30 years of experience in the global biopharma and diagnostic healthcare industry, his breadth of knowledge is unique. Christopher specialises in eliminating barriers to commercial execution, with expertise in the USA and Africa. He founded several healthcare companies and was recently the Director at the Africa Clinical Research Organisation, based in Johannesburg, in which he oversaw the management and governance at the CRO start-up. Christopher joined Gilead Sciences in January 2021 and is responsible for leading a diverse mix of countries across the North African, Central African, and Southern African Regions. Christopher speaks widely on topics related to health innovation in the developing world and improving access to medicines and healthcare Equity.

MI002: Integrating innovation and manufacturing value chains

MR PATRICK TIPPOO has more than 30 years experience in the vaccine manufacturing industry. He is currently Head of Science and Innovation he is focused on growing Biovac's product development capability and scientific & technical capacity as a centre of excellence for vaccine development and manufacture in Africa.

MR ROBERT DEGRAFT KWAME Agyarko works with the African Risk Capacity (ARC), a Special Agency of the African Union. He is the Lead Advisor and Coordinator of the Outbreaks and Epidemics pilot programme since 2016 when he joined ARC from the WHO/AFRO's Health Security and Emergencies Programme, where he worked as the focal person for Strategic Planning, Resource Mobilisation and Partnerships.

IPC003 Human resource development for Africa's manufacturing capability

PROF KIRK SEMPLE is a professor of environmental microbiology with over 30 years of research experience. Also, the Director of International Engagement,

Lancaster Environment Centre, Assistant a Dean International, Faculty of Science and Technology, Director for the RECIRCULATE and ACTUATE projects pollution in the environment, particularly in soil. Prof Semple's research interests lie in Bioenergy and the use of microorganisms for energy generation. Application of bioenergy residues as soil amendments or alternatives to conventional fertiliser.

LILLIAN KIDANE has a career in supporting vaccine access on the continent for over 15 years. As part of the Africa leadership team at General Electric, she worked to develop healthcare manufacturing and localization investments on the continent. Prior to her time with GE, she worked with various state leadership across the continent as a member of the Clinton Health Access Initiative Africa team to increase access to ARVs and develop health systems to support rollout of these medicines. She has also consulted development agencies in the Washington DC beltway in developing strategies for increasing access to essential medicines and equipment - on the continent for the continent. In her current role with Dalberg Global Advisors, Lillian works to develop investment strategies with African leaders, thought leaders and private investors for a range of industries - including pharmaceuticals.



TIA001: Syndicating investments in nuclear medicine

PROF MIKE SATHEKGE is a Professor and Head of Nuclear Medicine department at University of Pretoria and Steve Biko Academic Hospital. He heads SA Nuclear Medicine Research Infrastructure. Mike has published over 200 articles and is one of the global leaders with regards to treatment of prostate cancer using 225Ac-PSMA and 213Bi-PSMA. He also led and introduced several Targeted Molecular Imaging and Therapeutic Probes in infection and oncology. As tribute to his scientific personality and high standing internationally, he has been appointed as the Editor-in-Chief of Seminars in Nuclear Medicine, the number one review and teaching journal of nuclear medicine globally. Prof Sathekge is the President-elect of the World Association of Radiopharmaceuticals and Molecular Therapy. Mike has won numerous scientific and merit awards and is the immediate past chairman of the MRC and immediate-past President of the CMSA. Prof Sathekge is the chair of The Academy of Science of South Africa (ASSAF) panel on research, development and innovation (RDI) of peaceful uses of nuclear technologies in South Africa.

IP002: South South Collaborations on Food Security Innovations – Focus on ICGEB

DR DENNIS NDOLO is Ndolo is Group Leader – Biopesticides at the International Centre for Genetic and Engineering (ICGEB); leading a team that supports the discovery, development, formulation, commercialisation and use of biopesticides. This is achieved through a programmatic approach, which involves strategic engagement with relevant stakeholders to address the challenges confronting research, development and adoption of biopesticides. One of the major projects of the Group is a biopesticide residue mitigation and regulatory harmonisation project in Southern Africa (funded by the Standards and Trade Development Facility). The project seeks to address the problem of low export market access by some countries in Southern Africa,

owing to the non-compliance with existing maximum residue level trade standards. Dennis serves on the Project Advisory Committee of the Biopesticide Residue Mitigation Project of the Asia-Pacific Association of Agricultural Research Institutions and the Project Steering Committee of the Latin America Pesticide Residue Mitigation Project. Prior to joining ICGEB, Dennis was based at the Kenya Agricultural and Livestock Research Organisation, Biotechnology Centre, where he was involved in various research programmes focussing on research and development of genetically modified crops. Dennis also previously worked with Dudutech (a leading international Integrated Pest Management company) where he was involved in research into sustainable biocontrol options for agricultural pest and disease control. He has authored/co-authored several peer-reviewed scientific publications.

TRACK 7: Manufacturing & Industrialisation

CSA001: A Diverse Society and Innovation incl. Media Diversity

MR FRANK BEADLE DE PALOMO, President & Chief Executive Officer, has more than 30 years of experience in the global health community which includes significant achievements in HIV prevention, domestic and global care and treatment, research, policy, and advocacy. He joined mothers2mothers (m2m) in 2012 as its President and Chief Executive Officer and leads a team of nearly 3,000 people on three continents who are delivering health, hope, and an HIV-free future in 10 sub-Saharan African nations. In addition to directing m2m's strategic planning and innovation processes, engaging with donors and partners, and working closely with the organisation's three Boards of Directors and Trustees, Frank is a frequent speaker at health conferences and thought-leadership gatherings worldwide. Before joining m2m, Frank was Senior Vice President and Director of the Global Health, Population, and Nutrition Group at AED/FHI 360. At the end of his tenure at FHI 360, Frank was in charge of a program portfolio spanning HIV/AIDS prevention,

care, and treatment; malaria; infectious diseases; avian influenza; nutrition and food security; water, sanitation, and hygiene; reproductive health/family planning; and maternal, newborn, and child health—operating in 31 countries around the world. Earlier, Frank worked at the Academy for Educational Development (AED)—which was acquired by FHI in 2011—where he created and led its Center on AIDS & Community Health and the Social Change Group as Senior Vice President and Director. Previous to AED, Frank created and directed the National Council of La Raza's (now UnidosUS) Center for Health Promotion in the United States.

Developing Health Solutions Aligned to Africa's Genetic Diversity

PROF MICHELE RAMSAY, is director of the Sydney Brenner Institute for Molecular Bioscience (SBIMB) at the University of the Witwatersrand, Johannesburg, Professor in Human Genetics and South African Research Chair in Genomics and Bioinformatics of African Populations. Ramsay's work has wider reach with involvement in national and international initiatives that support broad areas of implementation research. Michèle is past President of the African Society of Human Genetics and President of the International Federation of Human Genetics Societies. Her recent awards include: Winner of the DSI Distinguished Woman Researcher 2019 award.

TRACK 8: 4IR and Digital Economy

4DE001: Precision Agriculture

DR RIAN PIERNEEF is a Senior Researcher in Bioinformatics at the Agricultural Research Council Biotechnology Platform. After completing undergraduate degrees in Genetics and Statistics, Rian obtained a PhD in Bioinformatics from the University of Pretoria. Due to the cross-cutting nature of the ARC-Biotechnology platform, Rian is involved in numerous projects and research endeavors across the agricultural value chain. These include, but are not limited to, the surveillance and identification of foodborne pathogens using next-generation sequencing and the detection of disease causing pathogens within the agricultural value chain.

Day 1 – 23 August 2021



08h30 – 10h30

PLENARY 1: Official Opening

Welcome

DR NHLANHLA MSOMI (AfricaBio President)

Mayoral Welcome HIS WORSHIP COUNCILLOR MXOLISI KAUNDA

Opening Remarks

DR PHIL MJWARA (DG: Department of Science and Innovation, Acting DG: Department of Higher Education)

Plenary Address: HON DEPUTY MINISTER, MR BUTI MANAMELA (Higher Education, Science and Innovation)

Keynote Address: HON MINISTER, DR JOE PHAAHLA (Health)

10h30 – 11h00

Industry Announcements & Launches

– BIOCITI LABS, TIA, INVEST DURBAN (10 MINUTES EACH)

TRACK 1: Universal Access to Healthcare through Innovation

11h05 – 12h05

H001: Vaccines in Africa

Facilitator: **PROFESSOR DINI MAWELA**

Panelist 1: **DR MARTIN FRIEDE**

Panelist 2: **DR MORENA MAKHOANA**

Panelist 3: **MR STAVROS NICOLAOU**

Panelist 4: **DR TSEPO TSEKOA**



Day 1 – 23 August 2021



TRACK 2: Finance & Investments & Market Access

11h05 – 12h05

FI001: Mobilising Funding & Investments for the African Bioeconomy

Facilitator: **DR SIYABULELA NTUTELA**

Panelist 1: **MR RUSSELL CURTIS**

Panelist 2: **DR BLESSED OKOLE**

Panelist 3: **MR COLIN MKHONZA**

Panelist 4: **MS LARA ROSMARIN**

TRACK 3: Food Security, Safety and Agriculture

11h05 – 12h05

FSA001: Food & nutrition value chains for improved health

Facilitator: **DR SHADRACK MOEPHULI**

Panelist 1: **PROF HETTIE SCHONFELDT**

Panelist 2: **PROF BRADLEY FLETT**

Panelist 3: **DR ITUMELENG MATLE**

Panelist 4: **DR NOMUSA DLAMINI**

Panelist 5: **PROF MICHAEL BAIRU**

TRACK 4: IK-Based Bio-Innovations & Cannabis Industrialisation

11h05 – 12h05

IBB001: Clinical Research and Innovation Value-chains for Africa's Manufacturing Capacity and Commercialization

Facilitator: **DR NCEBAKAZI GALADA**

Panelist 1: **DR LUNGILE SHOBA-ZIKHALI**

Panelist 2: **PROF NCEBA GQALENI**

Panelist 3: **PROF QING WU**

Panelist 4: **PROF WILFRED NGWA**



Day 1 – 23 August 2021



TRACK 1: Universal Access to Healthcare through Innovation	
12h10 – 13h10	<p>H002: Diagnostics</p> <p>Facilitator: DR SIBONGILE GUMBI</p> <p>Panelist 1: MR ASHLEY UYS</p> <p>Panelist 2: DR PETER DUNCAN</p> <p>Panelist 3: PROF WENDY STEVENS</p> <p>Panelist 4: PROF TULIO DE OLIVERA</p> <p>Panelist 5: MR DANIEL NDIMA</p>
TRACK 2: Finance & Investments & Market Access	
12h10 – 13h10	<p>FI002: Universal Health Coverage</p> <p>Facilitator: DR NTUTHUKO BHENGU</p> <p>Panelist 1: PROF NICHOLAS CRISP</p> <p>Panelist 2: DR PAUL DAVIES</p> <p>Panelist 3: DR KATLEGO MOTHUDI</p>
TRACK 4: IK-Based Bio-Innovations & Cannabis Industrialisation	
12h10 – 13h10	<p>IBB002: Holistic Regulatory Framework for Unlocking Regional Cannabis Manufacturing</p> <p>Facilitator: MR KLAAS MOKABA</p> <p>Panelist 1: MR THABO RAMASHALA</p> <p>Panelist 2: MS MOKGADI FAFUDI</p> <p>Panelist 3: ADVOCATE GARETH PRINCE</p>



Day 1 – 23 August 2021



13h00 – 14h30

PLENARY 2: An Africa-centric Conversation on TRIPS Waivers of Patents for COVID-19 Vaccines

Facilitator: **DR LWAZI MANZI** (AU Head of Covid 19 Secretariat)
Amb XOLELWA Mlumbi-Peter (South African Ambassador to WTO)
DR MICHELLE MCMURRY-HEATH (President & CEO of BIO USA)
MS ANJALI NAYYAR (Executive President of Global Health Strategies)
MS BONGIWE MLANGENI (Senior Director for Africa at the Global Health Strategies)

14h00 – 15h00

PLENARY 3: Appropriate Human Capital Development for Innovation in Africa

Facilitator: **Prof Derrick Swartz**
PROF REES (Botswana University)
PROF MOSA MOSHABELA (University of KZN)
PROF TSHILIDZI MARWALA (University of Johannesburg)



Day 1 – 23 August 2021



TRACK 1: Healthcare

14h30 – 15h30

H003: Developing Therapeutics

Facilitator: **DR DENNIS LIOTTA**

Panelist 1: **DR LUKE HODSON**

Panelist 2: **DR NICOLE PRIBUT**

Panelist 3: **DR STEPHEN PELLY**

TRACK 2: Finance & Investments & Market Access

14h30 – 15h30

FI003: Raising Biotech Start-ups in South Africa – “It Takes a Village”

Facilitator: **MR DHEEPAK MAHARAJH**

Panelist 1: **MR BRETT THOMPSON**

Panelist 2: **DR SIYAVUYA BULANI**

Panelist 3: **DR SIBONGILE GUMBI**

Panelist 4: **DR SANTOSH RAMCHURAN**

Panelist 5: **MR DANIEL NDIMA**

TRACK 3: Food Security, Safety and Agriculture

14h30 – 15h30

FSA002: Smallholder Agriculture for Household and National Food Security

Facilitator: **DR THULASIZWE MKHABELA**

Panelist 1: **DR SIFISO NTOMBELA**

Panelist 2: **DR YOLISA PAKELA-JEZILE**

Panelist 3: **DR SASKIA VAN OOSTERHOUT**

Panelist 4: **MS THABI NKOSI**



Day 1 – 23 August 2021



TRACK 4: IK-Based Bio-Innovations & Cannabis Industrialisation

14h30 – 15h30

IBB003: Cannabis Research and Industrialisation

Facilitator: MS SINAH MOSEHLA

Panelist 1: DR CHARAH WATSON

Panelist 2: PROF MOTLALEPULA MATSABISA

Panelist 3: DR THANDEKA KUNENE

Panelist 4: DR BLESSED OKOLE

TRACK 1: Healthcare

15h45 – 16h45

H004: Diversity in Clinical Trials (Sponsored by RISE Amgen)

Facilitator: DR NOMONDE MABUYA

Panelist 1: PROF COLLEN MASIMIREMBWA

Panelist 2: DR JUDE NGANG

Panelist 3: PROF. VERONICA MILLER

Panelist 4: PROF MOSES BOCKARIE

Panelist 5: PROF OSONDU OGBUOJI

TRACK 2: Finance & Investments & Market Access

15h45 – 16h45

FI004: Innovative Financing Solutions for Biotech

Facilitator: DR NHLANHLA MSOMI

Panelist 1: MR MOSS NGOASHENG

Panelist 2: MR ANDRE CRAWFORD-BRUNT

Panelist 3: DR STEPHEN BUNTING

Panelist 4: DR PAUL ABRAHAMS



Day 1 – 23 August 2021



TRACK 3: Food Security, and Safety and Agriculture

15h45 – 16h45

FSA003: Technological innovations for resilient agriculture

Facilitator: MS ZVIKOMBORERO TANGAWAMIRA

Panelist 1: DR BERHANU BEDANE

Panelist 2: DR NTSIBANE NTLATLAPA

Panelist 3: PROF SUE WALKER

TRACK 4: IK-Based Bio-Innovations & Cannabis Industrialisation

15h45 – 16h45

IBB004: Manufacturing Value chains of IK Bio-Innovation

Facilitator: MS MAMMONE TANG

Panelist 1: DR PHUTI CHELOPO-MGOBHOZI

Panelist 2: MS NATALIE FELTMAN

Panelist 3: MR FORREST ZHONG

Panelist 4: MS AMANDA GCABASHE

Panelist 5: DR ZANDILE FUYANE

16H45– 18H15

PLENARY 4:

Building Bridges with Innovators and Entrepreneurs in Africa and the Diaspora

Facilitator: PROF GILLIAN MARCELLE (Founder of Resilience Capital Ventures)

1. MR ATHERTON MUTOMBWERA (CEO of Hutano Diagnostics)
2. MS PAULINE KOELB (CEO of Afriprospect GmbH)
3. DR YAW BEDIAKO (CEO of Yemaachi Biotech)
4. DR YEMI ONAKUNLE (Ph.D, MBA – President and CEO of VLP Biotech)
5. DR RICHARD SOMIARI (President of ITSI Biosciences)
6. MR YUSUF HENRIQUES (CEO of IndyGeneUS)



Day 1 – 23 August 2021



Side Events

City of eThekweni Small-Scale Farmer Programme 23 August 11H00 – 13H00

The City of eThekweni Municipality partnered with AfricaBio to establish a potato seed nursery at the Northdene Agri-Ecology Hub. Join us to learn about the value and impact of the project to local smallholder farmers, and the future of potato production in eThekweni.

CASE STUDY:
eThekweni Small-scale Farmer Biotechnology Adoption & Sustainable Farming Model: The City of eThekweni & AfricaBio Partnership.

Date: 23 August 2021
Time: 11H00 – 12H00

To RSVP for this side event please join using the following link;
<https://app.glueup.com/event/bio-africa-digital-convention-2021-40600/>



Day 1 – 23 August 2021



Side Events

Small Enterprise Development Agency (SEDA) – The Art of Pitching: Pitching Masterclass for Bioentrepreneurs

THE ART OF PITCHING

Pitching Masterclass for Bio Entrepreneurs in the Bio Sector

23 August 2021 at 12h00 to 13h00

Contact Person for RSVPs: Khalipha Sitiki,
convention@bioafricaconvention.com



Day 1 – 23 August 2021



Side Events

International Centre for Genetic Engineering & Biotechnology (ICGEB)

23 August 14H30 – 16H30

BIO Africa Digital Convention 2021
23rd – 24th August
Advancing Africa's Biomanufacturing Value Chains Through Innovation.

BIO Africa Academy

ICGEB will be a part of the BIO Africa Academy 2021, Presenting courses on:

- 1 Biosimilars**
Development of technologies for production of quality control of biosimilars
- 2 Biopesticides**
Challenges to the adoption of biopesticides in agriculture: exploring solutions
- 3 Bioenergy**
Advances in Industrial Biotechnology for second generation renewable fuels

International Centre for Genetic Engineering and Biotechnology



Day 2 – 24 August 2021



08h30 – 10h30

DAY 2: Plenary 4 – OFFICIAL OPENING

Opening Remarks:

DR SIYA NTUTELA (Executive Secretary: BIO Africa)

Plenary Address:

DR LAWRENCE BANKS (Director General: ICGEB)

Keynote Address:

HON MINISTER, MS THOKO DIDIZA (Agriculture, Land Reform and Rural Development)

TRACK 5: Manufacturing & Industrialisation

11h00 – 12h00

MI001: Intellectual Property and Pharmaceutical Manufacturing in Africa

Facilitator: DR GIORGIO ROSCIGNO

Panelist 1: MR CHRIS WHITFIELD

Panelist 2: DR NAVIN KHANNA

Panelist 3: DR MARTINA VIVANI

TRACK 6: Internationalisation; Partnerships & Collaborations

11h00 – 12h00

IPC001: Harnessing private sector in the context of Continental Free Trade Agreement

Facilitator: DR MMBONENI MUOFHE

Panelist 1: DR JANET BYARUHANGA

Panelist 2: DR MORENA MAKHOANA

Panelist 3: DR LAWRENCE BANKS

Panelist 4: DR MATTHEW DOWNHAM



Day 2 – 24 August 2021



TRACK 7: Civil Society and Advocacy

11h00 – 12h00

CSA001: A Diverse Society and Innovation

Facilitator: **MS STEVE LETSIKE**

Panelist 1: **MS SSENFUKA JOANITA WARRY**

Panelist 2: **MR DANIEL LASTER**

Panelist 3: **MR FRANK BEADLE DE PALOMO**

Panelist 4: **PROF MONIQUE MARKS**

TRACK 8: 4IR and Digital Economy

11h00 – 12h00

4DE001: Precision Agriculture

Facilitator: **DR TEBOGO SETHIBE**

Panelist 1: **MR RENDANI RAMABULANA**

Panelist 2: **DR GEORGE CHIRIMA**

Panelist 3: **DR RIAN PIERNEEF**

Panelist 4: **MS MERRYL FORD**

Panelist 5: **MS ISABEL MEYER**

TRACK 5: Manufacturing & Industrialisation

12:10 – 13h00

MI002: Integrating Innovation and Manufacturing Value Chains

Facilitator: **DR NHLANHLA MSOMI**

Panelist 1: **MR ROBERT AGYARKO**

Panelist 2: **DR EUGENE LOTTERING**

Panelist 3: **DR ANDRE GEMISHUIZEN**



Day 2 – 24 August 2021



TRACK 6: Internationalisation, Partnerships & Collaborations

12:10 – 13h00

IPC002: South South Collaborations on Food Security Innovations – Focus on ICGEB

Facilitator: DR LUIZ ZERBINI

Panelist 1: DR DENIS NDOLO

Panelist 2: DR VITTORIO VENTURI

Panelist 3: DR SYED SHAMS YADZANI

Panelist 4: DR LARA DONALDSON

TRACK 7: Nuclear Medicine

12:10 – 13h00

TIA001: Syndicating Investments in Nuclear Medicine

Facilitator: DR VUYISILE PHEHANE

Panelist 1: PROF MIKE SATHEKGE

Panelist 2: MR THABO TSILANE

Panelist 3: MS TISHANYA NAIDOO

Panelist 4: DR JAN RIJN ZEEVART

TRACK 8: 4IR and Digital Economy

12:10 – 13h00

4D002: Precision Medicine (Diverse Genomes)

Facilitator: DR RIZWANA MIA

Panelist 1: PROF COLLEN MASIMIREMBWA

Panelist 2: MS KEMI WILLIAMS



Day 2 – 24 August 2021



TRACK 5: Manufacturing & Industrialisation

14h00 – 15h00

M003: Local Manufacturing for Africa (Strategies and Case Studies)

Facilitator: DR SKHUMBUZO NGOZWANA

Panelist 1: MR PATRICK TIPPOO

Panelist 2: DR SANTOSH RAMCHURAN

Panelist 3: MS LILLIAN KIDANE

TRACK 6: Internationalisation; Partnerships & Collaborations

14h00 – 15h00

IPC003: Human Resource Development for Africa's Manufacturing Capability

Facilitator: PROF THANDI MGWEBI

Panelist 1: PROF KIRK SEMPLE

Panelist 2: : PROF ZODWA DLAMINI

Panelist 3: PROF FELIX DAKORA

Panelist 4: DR NTHABI TAOLE-MJIMBA

TRACK 7: Society And Innovation

14h00 – 15h00

CSA003: Developing Health Solutions Aligned to Africa's Genetic Diversity

Facilitator: DR SOLI MAKOHLISO

Panelist 1: MS DELALI ATTIPOE

Panelist 2: PROF MICHELE RAMSAY

TRACK 8: IPASA Session

14h00 – 15h00

IPASA Innovation and Protection of IP Rights

Facilitator: MR BADA PHARASI

Panelist 1: DR GODFREY KEELE

Panelist 2: PROF KELLY CHIBALE



Day 2 – 24 August 2021



15h30 – 17h00

PLENARY: RISING STARS AND THE LAUNCH OF THE DR KONJI SEBATI FEMALE LEADERS OF TOMORROW

LAUNCH OF THE DR KONJI SEBATI FELLOWSHIP

Introductions: **MS KELE LEKOAPE** (Vice President of AfricaBio)

MADAM PHUMZILE MLAMBO-NGCUKA (outgoing Executive Director: UN Women and former Deputy President of the Republic of South Africa)

MR GREG PERRY (Assistant Director General of IFMPA)

RISING STARS (Facilitated by **DR BOITUMELO SEMETE - MAKOKOTLELA**)

Featuring bright Young Female Stars of the Future in Biotechnology and Healthcare

1. **DR MAKENDRA UMSTEAD**
2. **MS SIPHOKAZI FEKE**
3. **DR THANDEKA KHOZA**
4. **DR NQOBILE GUMEDE**
5. **DR NONHLANHLA MZILA**
6. **MS EFUA EDUSEI**
7. **DR SINDISIWE MUTHWA**

17h00 – 18h00

PLENARY 6: DIALOGUE WITH GLOBAL BIOTECH LEADERS FACILITATOR – DR NHLANHLA MSOMI

PROF DENIS LIOTTA (Emory University);

DR LAWRENCE BANKS (DG, ICGEB);

DR YEMI ONAKUNLE (VLP Biotech),

SIR RICHARD ROBERTS (New England BioLabs)

DR TONY NDIFOR (Johnson & Johnson)



Day 2 – 24 August 2021



18h00-18h15

CLOSING:

DR BOITUMELO SEMETE – MAKOKOTLELA (Deputy Chair: BIO AFRICA)



Day 2 – 24 August 2021



Side Events

BioCiTi Labs Official Launch

24 August 11H00 – 12H00



Day 2 – 24 August 2021



Side Events

International Centre for Genetic Engineering & Biotechnology (ICGEB)

24 August 12H10 – 14H10

BIO Africa Digital Convention 2021
23rd - 24th August
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- 2 Biopesticides**
Challenges to the adoption of biopesticides in agriculture: exploring solutions
- 3 Bioenergy**
Advances in Industrial Biotechnology for second generation renewable fuels

International Centre for Genetic Engineering and Biotechnology

Day 2 – 24 August 2021



Side Events

TIA Academy

24 August 14H00 – 15H30

BIO Africa Digital Convention 2021
23rd – 24th August
Advancing Africa's Biomanufacturing Value Chains Through Innovation.

Introduction to medical device product development workshop: Developing a sustainable medical device future for South Africa

Course Presenters

- Mzwake Maqhaisa
Project Assistant, PDTS
- Thabo Lenkoe
Project Assistant, PDTS
- Carel Plekker
Junior Project Engineer, PDTS

Course description

- Medical device product development process
- Industrialisation
- Commercialisation opportunities of medical devices in South Africa
- Patient specific medical devices by Additive Manufacturing
- Case study on medical devices in South Africa
- Introduction to medical device registration and ISO 13485
- Introduction to intellectual property and IPR Act.

Date: 24 August 2021
Time: 14:00 – 15:30 CAT

Please register for the BIO Africa Convention at www.bioafricaconvention.com



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BIO Africa Newsletter



The BIO Africa Monthly



Issue 1 | August 2021



Message from the Executive Secretary



Once again, it is such a great honour for me to welcome you to the BIO Africa Convention, albeit digital this time around. In its 4th year, it continues to be the main platform on the African continent to discuss and dialogue advances and development in biotech and bioeconomy.

The BIO Africa Digital Convention 2021 promises to tackle, head on, the issues regarding the untapped capabilities and competencies of Africa to innovate and manufacture goods for global consumption, rather than being dependent on importation. Under the theme “Advancing Africa’s Biomanufacturing Value Chains Through Innovation”, the Convention will deal with some of the critical topics affecting Africa’s manufacturing of goods. Amongst the topics will include discussions on the global issue of TRIPS Waiver on Covid-19 patents; advancing manufacturing of cannabis; and technological innovations for food manufacturing for food security in the continent.

At the centre of the 2021 BIO Africa Digital Convention’s theme is the acknowledgement of the role of women in the development and sustainability of Africa’s bioeconomy. The Convention will feature some of the great women entrepreneurs, global opinion leaders, business executives and government officials. In this year’s Convention, AfricaBio will be recognising the role played by one of its former Board members – Ambassador Dr. Konji Sebati.

Ausi Konji was not only a global diplomat and an influencer. To AfricaBio she was a mentor and very instrumental in the conception of the BIO Africa Convention. At this year’s Convention, and in recognition of Ausi Konji’s role in growing Africa’s bioeconomy, AfricaBio will be inaugurating the Dr Konji Sebati Fellowship aimed at acknowledging the role of young women in growing Africa’s bioeconomy. It is our hope that through this fellowship, the legacy of Ambassador Dr. Konji will serve as an inspiration for upcoming young (and especially women) people to take up science and mathematics in order to contribute positively to the economic future of this beautiful continent of Africa.

We thus invite all of our delegates to participate actively in the Convention. It is our hope that for the next year’s Convention will meet in person.

Stay safe and vaccinate.

Welcome! Namnkelekile!



Organising Committee



Dr Nhlanhla Msomi

Dr Nhlanhla Msomi is a Healthcare and Innovation Expert and Entrepreneur. He is the Chairman and Founder of PeSo Holdings which focuses on healthcare and hospitality. Dr Msomi is also the current President of AfricaBio, Dr Nhlanhla Msomi has had a varied career over the past 30 years, spanning research and development (R&D), academia, innovation management, policy work, corporate finance, healthcare businesses and global health.



Dr Boitumelo Semete-Makokotlela

Dr Boitumelo Semete-Makokotlela is the CEO of the SAHPRA. She has a Ph.D. (Biochemistry) and holds MSc in Management Finance and Investment. She is also a fellow of the African Leadership Initiative. She managed a biotechnology incubator at The Innovation Hub Management Company. She was with McKinsey for 2 years as a McKinsey Leadership Fellow. Prior to that, she was at the CSIR as a Senior Researcher.



Dr Siyabulela Ntutela

Dr Siya Ntutela founded and manages the following companies: Zanalytix Laboratories, Intini Research & Consulting, a biotech consulting firm. He has served in several high-profile positions, such as CEO of AfricaBio; CEO of iThemba Pharmaceuticals. He was the Deputy Chair of the International Council of Biotechnology Association until May 2021. He also serves as Ambassador for Life Sciences Queensland, Australia.





Dr Mapitso Molefe

Dr Mapitso Molefe is the Executive Manager for the NextGen Health and Advanced Agriculture and Food clusters at CSIR. Prior to this role she was the Group Manager responsible for Human Capital Development. She was the Director of the Sasol Inzalo Foundation. She holds a PhD and an MSc in organic chemistry from Michigan State University and Bucknell University.



Dr Hlupheka (Aunkh) Chabalala

Dr Hlupheka (Aunkh) Chabalala is the current National Director of the Indigenous Knowledge-Based Technology Innovation Unit of the South African Department of Science and Technology. He is a Medical Scientist with special interest in research, development, and innovation of African Natural Medicines. He holds Master of Science (University of Pretoria), Master of Public Health (Tsinghua University) and PhD in Technology Innovation (Da Vinci Institute of Technology).



Dr. Farai Muchadeyi

Dr. Farai Muchadeyi is a research senior manager at the Biotechnology Platform of the Agricultural Research Council, South Africa. She holds BSc Honours (animal sciences) and MPhil (agriculture) degrees from the University of Zimbabwe and was awarded a PhD degree in animal and molecular genetics from Goettingen University, Germany. Farai held a postdoctoral research fellowship at Stellenbosch University in South Africa



Dr Nick Draeger

Dr Nick Draeger started his career at Roche Pharmaceuticals in Research and later in Global Business Development. Nicholas is a Founder and Director of Cederberg GmbH, a Swiss pharmaceutical marketing and distribution company and Founder and Director of Nurevas International, a food production and marketing company, with operations in Switzerland and Ghana.



Dr Moredreck Chibi

Dr Moredreck Chibi works for the World Health Organization (WHO) Regional Office for Africa in Brazzaville, Republic of Congo, as Regional Innovation Adviser. His main role is coordinating implementation of the Transformation Agenda. He serves as a chair of the Regional UN Interagency technical experts on leveraging emerging technologies and digital transformation for inclusive growth and development in Africa.





Dr Vuyisile Phehane

Dr Vuyisile Phehane is a Bio-economy Executive at TIA with a demonstrated history of working in technology development, innovation, and commercialization of intellectual property. He holds a PhD in Chemical Pathology from the University of Cape Town. He has worked at SA Bioproducts, then joined the CSIR as a Process Scientist. He was also the Programme manager then Commercialisation Manager of the Innovation Fund. He became an Industrial Biotechnology and Bioprocessing Portfolio Manager.



Dr Giorgio Roscigno

Dr Giorgio Roscigno is a senior public health specialist with broad pharma experience. He has 8 years experience in a Research based MNC (Aventis Sanofi) and 13 years experience in the Public Private Mix having contributed to the creation and lead of 3 major Product Development Partnership: The Global Alliance (CEO) FIND (CEO) and The African Society for Laboratory Medicine (COO 2012-2013). Dr. Roscigno is the founder of NEXT2PEOPLE (Geneva,



Ms Anneline Morgan

Ms Anneline Morgan is currently the Senior Technical Advisor at the SADC Secretariat. Prior to her role at the SADC Secretariat, she held the position of Director: Africa Cooperation at the South African, DST. Ms Morgan has many years of experience in championing regional cooperation in science, technology, and innovation, which has resulted in the initiation of several regional programmes and projects.



Mr Mmboneni Muofhe

Dr Mmboneni Muofhe is Deputy Director-General: Technology Innovation at the Department of Science and Technology. Mmboneni was previously DDG for International Cooperation and Resources and has held several positions at the Department of Science and Technology, including being Chief Director: International Resources, Director: Strategic Partnerships and Director: Global Projects.



Dr. Soli Makohliso

Dr. Soli Makohliso is an international entrepreneur with over 20 years of experience in the US, Switzerland and Southern Africa. He is the Deputy Head of the EssentialTech Program at the Swiss Federal Institute of Technology (EPFL). Soli received his B.Sc and M.Sc in Biomedical Engineering at Brown University in the US and his PhD at the Swiss Federal Institute of Technology in Lausanne (EPFL).





Dr Shadrack Moephuli

Dr Shadrack Moephuli is the former President and CEO of ARC. He has overseen the broadening of international research, development of new animal vaccines, and new crop cultivars for improved agricultural productivity, while also prioritising professional development and skills transfer during his tenure at ARC. He is a member of the Genetic Resource Policy Committee of the Consultative Group of International Agricultural Research.



Dr Skhumbuzo Ngozwana

Dr Skhumbuzo Ngozwana is a senior executive with more than 24 years experience in pharmaceutical and healthcare sectors. He has extensive experience working with international development organisations including AUC, UNIDO, WHO, UNAIDS & USP on major Pan African pharmaceutical project and chairman of Biovac, a South African vaccine manufacturer.

