



SOUTH AFRICAN DELEGATION



INSPIRING BIO-INNOVATION FOR ECONOMIC DEVELOPMENT

2019
SOUTH AFRICA



Inspiring new ways



CONTENTS

1. Summary of the South African Delegation	2
2. Delegation Biographies	4
National Government	4
Biotech Associations	6
Industry, Products and/or Services	8
Project Coordinator	21
3. About Philadelphia	22
4. Exhibition – South African Pavilion	24

1. SUMMARY OF THE SOUTH AFRICAN DELEGATION

NATIONAL GOVERNMENT

Mr Mmboneni Muofhe	Deputy Director-General: Technology Innovation; Department of Science and Technology
Ms Glaudina Loots	Director: Health Technology; Department of Science and Technology
Mr Bruce Tshilamulele	Deputy Director: Health Innovation; Department of Science and Technology
Ms Amukelani Rikhotso	Assistant Director: Investment Promotion; Department of Trade and Industry
Ms Andrea Keyter	Deputy Director: Medical Devices at the South African Health Products Regulatory Authority

BIOTECH ASSOCIATIONS

Dr Siyabulela Ntutela	Chief Executive Officer; AfricaBio
Dr Nhlanhla Msomi	President; AfricaBio
Ms Mpho Mamabolo	General Manager: Research & Strategy; AfricaBio

INDUSTRY, PRODUCTS AND/OR SERVICES

Ms Sarusha Pillay	Acting Executive: Innovation Enabling and Support; Technology Innovation Agency
Mr Obakeng Maema	Portfolio Manager: Agriculture Strategic Technology Area; Technology Innovation Agency
Ms Tshembani Khupane	Programme Manager: Seed Fund; Technology Innovation Agency
Ms Brigitte Binneman	Programme Manager: Technology Platforms Programme; Technology Innovation Agency
Ms Kimera Moodley	Portfolio Manager: Health, Technology Innovation Agency
Ms Tandokazi Nquma-Moyo	Business Development Manager; Technology Innovation Agency
Dr Alfred Thutloa	Head of Corporate & Marketing Communications; South African Medical Research Council
Dr Michelle Mulder	Senior Program Manager; South African Medical Research Council
Dr Ana Casanueva	Project Manager: Technology; South African Medical Research Council



Mr Earl Prinsloo	Project Manager; South African Medical Research Council
Ms Rizwana Mia	Program Manager; South African Medical Research Council
Ms Angela Conway	Chief Executive Officer; ACRO
Mr Ashley Pearce	Managing Director; Adcock Ingram, South Africa
Dr Nic Duneas	Chief Executive Officer; Altis Biologics
Mr Daniel Ndimma	Chief Executive Officer; CapeBio Technologies
Ms Dineo Lioma	Co-Founder and COO; CapeBio Technologies
Dr Judith Hornby	Project Portfolio Manager; Centre for Proteomic and Genomic Research
Mr Randall Crisp	Life Science Regional Manager: Sub-Saharan Africa; Clarivate
Dr Tim Newman	Program Manager; Diplomics
Dr Michelle Middle	Chief Medical Officer; Farmovs (Pty) Ltd, University of the Free State
Mr HB Theron	Director Bioanalytical Services; Farmovs
Mr Saul Kornik	Chief Executive Officer; Healthforce
Ms Gugulethu Mkhize	Grants & Program Manager; KwaZulu-Natal Research Innovations and Sequencing Platform
Mr Dariah de Villiers	Head of Science, Innovation and Commercialization; Lumegen Laboratories
Mr Sibusiso Mdlalose	Director: Business Development; LT Clinical Research (Pty) Ltd
Dr Charlotte Scholtz	Chief Executive Officer; TokaBio (Pty) Ltd; South Africa
Mr Tyron Grant	Partner; Spoor & Fisher
Ms Chyreene Truluck	Patent Attorney; Spoor & Fisher
Dr Joanne Van Harmelen	Patent Attorney; ENSafrica

PROJECT CO-ORDINATOR

Dr Judy Coates	Consultant
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2. DELEGATION BIOGRAPHIES

NATIONAL GOVERNMENT



MR MMBONENI MUOFHE

**DEPUTY DIRECTOR-GENERAL: TECHNOLOGY INNOVATION;
DEPARTMENT OF SCIENCE AND TECHNOLOGY**

Mr. Mmboneni Muofhe is the Deputy Director-General (DDG) for Technology Innovation at the Department of Science and Technology in South Africa. He was previously DDG for International Cooperation and Resources and has held several positions at the Department, including being Chief Director: International Resources, Director: Strategic Partnerships and Director: Global Projects. During this period he oversaw South Africa's growing participation in EU Research Funding programmes, led the mobilization of Official Development Assistance funds to support South Africa science system and the Department's partnership with Multinational Companies. Mr Muofhe's earlier working and post-graduate years were mainly in agricultural biotechnology.

He was a UNESCO Biotechnology Fellow at the Agricultural Research Council in 1997 before joining the Foundation for Research Development (now National Research Foundation) as Coordinator and then Manager for Technology and Human Resource for Industry Programme.

Mr Muofhe's current responsibilities include the implementation of South Africa's Bioeconomy Strategy, which aims to utilise South Africa's rich biodiversity, specialised skills base and global partnerships to address health, agriculture and industrial and environmental challenges, thereby improving the livelihood of citizens, stimulating economic growth. He is also a non-Executive Director of Biovac (a partly state-owned vaccine manufacturing company) and The Innovation Hub (the first Science and Technology Park in Africa to be accredited by the International Association of Science Parks).

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MS GLAUDINA LOOTS

**DIRECTOR: HEALTH INNOVATION; DEPARTMENT OF SCIENCE AND
TECHNOLOGY**

Glaudina Loots is the Director for Health Innovation at the Department of Science and Technology in South Africa and as such is responsible for the implementation of the Health components of the Bioeconomy strategy for South Africa, and concentrates on enabling research and innovation that leads to discovery and evaluation of new drug and treatment regimes, the development of new vaccines and new robust diagnostics for the identified diseases or conditions, as well as the development of medical devices and e-health applications.

The range of research activities that Glaudina encourages as part of her portfolio include the interrogation of natural products, basic molecular science, genetics, chemistry and bio-chemistry, biotechnology, nanotechnology, nuclear physics, ICT, manufacturing processes and engineering.

Amongst others, Glaudina serves on the South African National Health Research Committee; the South African National AIDS Council, the UNESCO National Bioethics Committee (South Africa) and is a member of the Ministerial Committee on Antimicrobial Resistance. She is also an Advisory Board Member for the "Towards an HIV Cure Initiative" of the International AIDS Society. Glaudina is a Board member of The Biovac Institute, a public-private-partnership aimed at the local manufacturing of vaccines and biologics.

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**MR BRUCE TSHILAMULELE****DEPUTY DIRECTOR: HEALTH INNOVATION; DEPARTMENT OF SCIENCE AND TECHNOLOGY**

Mr Bruce Tshilamulele is the Deputy Director for health Innovation at the Department of Science and Technology in South Africa and is responsible for the implementation of the health component of the Bio economy strategy for South Africa. Mr Tshilamulele's focus is on creating an enabling environment for health R&D to take place in South Africa. The focus is on research and innovation that leads to discovery and evaluation of new drugs and treatment regimes, the development of new vaccines and new robust diagnostics for the identified diseases or conditions, as well as the development of medical devices. Mr Tshilamulele also assists in the establishment of local pharmaceutical manufacturing, this include the local manufacturing of generic and new drugs and establishing facilities to encourage the development of diagnostics and medical devices.

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**MS AMUKELANI RIKHOTSO****ASSISTANT DIRECTOR: ADVANCED MANUFACTURING; DEPARTMENT OF TRADE AND INDUSTRY**

Amukelani Rikhotso is an Assistant Director at the Department of Trade and Industry, Investment Promotion Unit. Ms Rikhotso is responsible for the Advanced Manufacturing industry which includes Pharmaceuticals, Composites, Aerospace and Defence, ICT and Electronics amongst other things. Ms Rikhotso is responsible for recruiting foreign direct investment (FDI) and local direct investment into South Africa in the Advanced Manufacturing Industry; assisting existing companies with the expansion of investment in South Africa; Packaging, marketing and promoting South African Advanced Manufacturing investment projects; conduct research measures to assist with Risk Management and Due Diligence; Stakeholder Management; and Customer Relations management.

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**MS ANDREA KEYTER****DEPUTY DIRECTOR: MEDICAL DEVICES AT THE SOUTH AFRICAN HEALTH PRODUCTS REGULATORY AUTHORITY (SAHPRA)**

Andrea Keyter is the Deputy Director: Medical Devices at the South African Health Products Regulatory Authority (SAHPRA). Andrea is a pharmacist and has 10 years of experience within the field of regulatory affairs, quality assurance, quality risk management, pharmaceutical production, complementary medicines manufacture and risk-based inspection planning. In her current role, Andrea is responsible for the implementation of the medical device regulatory framework in South Africa and for the regulation of medical devices and in vitro diagnostics in South Africa. She is also Chair of the Pan African Harmonization Working Group, a body for regulators of medical devices in Africa that aim to improve access to medical devices and diagnostics in Africa through harmonized regulation whilst ensuring the safety, quality and performance of the devices. Andrea is also an assessor and trainer for the World Health Organization (WHO) Global Benchmarking Tool (GBT). The GBT represents the primary means by which the WHO objectively evaluates the maturity of regulatory systems. Andrea holds a BSc in Pharmacy, MSc in Pharmaceutical Affairs and is currently registered for PhD in Regulatory Affairs at University of Hertfordshire in the United Kingdom.

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2. DELEGATION BIOGRAPHIES

BIOTECH ASSOCIATIONS



DR SIYA NTUTELA

CEO: AFRICABIO (NON-PROFIT COMPANY) (LEAD FOR BIO 2017/18 SA DELEGATION)

Dr Siyabulela (Siya) Ntutela graduated with a PhD in Pharmacology from the University of Cape Town, focusing on drug discovery and medicinal chemistry.

Siya is currently the CEO of AfricaBio. He also founded and manages the following companies: Zanalytix Laboratories, a contract analytical services company offering post-importation testing in pharmaceutical industry and Intini Research & Consulting, a biotech consulting firm. Prior to establishing Zanalytix, Siya served in a number of high-profile positions, such as CEO of iThemba Pharmaceuticals, Senior GM – Operations at the Technology Innovation Agency, COO of PlantBio Innovation Centre and Deputy Director at the National Department of Science and Technology.

Siya has an extensive experience in innovation management, agricultural, pharmaceutical industry and biotechnology sector in South Africa. Dr Ntutela worked with a number of start-up companies, assisting them to develop and commercialise their innovations. He also provides strategy consulting to the biotech and pharmaceutical industry.

Siya serves in expert advisory roles to a number of institutions such as the Department of Science and Technology, National Research Foundation and the Gauteng Provincial Department of Economic Development and Council for Scientific and Industrial Research (CSIR) through his consulting entity, Intini Research & Consulting (Pty) Ltd.

He has served in a number of Boards of start-up companies in South Africa.

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DR NHLANHLA MSOMI

PRESIDENT & BOARD CHAIR; AFRICABIO

After graduating with a PhD in Biotechnology (molecular genetics), he later obtained a Diploma in Finance and completed an International Executive Development Program (Wits). Nhlanhla's career has included research scientist, academic, corporate advisor, innovation management and entrepreneur. He left research and teaching to venture into the business world, after a decade. He has intermittently gone back to the public service, first as a CEO of the East Coast Biotechnology Regional Innovation Centre and then interim CEO of the Technology Innovation Centre (both at inception). These were public venture capital funds focused on innovation. He also served, among others, on the boards of the CSIR, TIA, National Advisory Council on Innovation, International Centre for Genetic Engineering and Biotechnology as well as the inaugural Investment Committee of the Southern African IP Fund. He is a co-author of three seminal works: Ethical and Legal Guidelines for Biotechnology Research in South Africa (2006); base document of the National Bioeconomy Strategy (2013) and Report of the National Consensus Panel on Biosecurity and Biosafety (2015).

After leaving academia he co-founded a biotechnology investment holdings company, with interests in several start-ups and a primary holding in Biopath Laboratories (molecular pathology) and SA Bioproducts (industrial fermentation). He was previously a partner in a corporate finance / advisory firm (now Quartile Capital) responsible for operationalisation of several public-private partnership funds and managing the proprietary investments division. As part of the latter he managed the acquisition and growth of Cityworks, a software development firm (ERP). He also served as a Group CEO Of MSQ Health Group, a company he co-founded in 2010 with several subsidiaries such as Akacia Medical, Clinisut, Akacia Surgical. He also serves on the Investment Committee of Quantum Global Health Fund for Africa. Dr. Nhlanhla Msomi is the President and Board Chairman of AfricaBio.

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MS MPHO MAMABOLO
GENERAL MANAGER; AFRICABIO

Mpho is the General Manager for Research & Strategy at AfricaBio. Previously, she served as the Manager of Health Strategic Technology Area at the Technology Innovation Agency (TIA). She is responsible for sourcing quality applications with innovative health solutions, evaluating applications for funding eligibility; preparing projects for funding decisions; facilitating contracting of approved deals; continuous monitoring and review of funded projects; interacting with stakeholders, follow-on funders and other role players in the South African National System of Innovation.

She previously worked as a research scientist at the Agricultural Research Council (ARC), Council for Scientific and Industrial Research (CSIR) and at the National Institute for Communicable Diseases (NICD). Mpho holds a Masters degree in Veterinary Science and is in the process of concluding her PhD studies in Microbiology with the University of Pretoria.

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2. DELEGATION BIOGRAPHIES

INDUSTRY, PRODUCTS AND/OR SERVICES



MS SARUSHA PILLAY

ACTING EXECUTIVE: INNOVATION ENABLING SUPPORT; AND HEAD: TECHNOLOGY INNOVATION CLUSTERS; TECHNOLOGY INNOVATION AGENCY

Ms Sarusha Pillay is the Acting Executive: Innovation Enabling Support (IES) at TIA. A national public entity that serves as the key institutional intervention, to bridge the innovation chasm between research and development from higher education institutions, science councils, public entities, and private sector, and commercialisation.

Her career spans over 14 years within the pharmaceutical industry (private-sector) and the investment/funding environment (public-sector). Within the latter, focus areas include technology start-up funding (investment identification, sourcing, appraisal, life cycle management) as well as investment support and interventions for turnaround.

More recently her career has intensified to establish, maintain and expand Technology Innovation Clusters; focusing on seeding and stimulating sectors of National Priority for emerging industries as well as existing industries that require revitalisation or those that will economically benefit the country from expansion and growth interventions.

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MR OBAKENG MAEMA

PORTFOLIO MANAGER: AGRICULTURE STRATEGIC TECHNOLOGY AREA; TECHNOLOGY INNOVATION AGENCY

Mr Obakeng Maema is a Portfolio Manager in the Agricultural Biotechnology Business Unit at the Technology Innovation Agency and is responsible for i) sourcing and facilitation of funding to high impact technology innovations / products / services towards commercialisation, ii) management of high-value investments in the agricultural biotechnology portfolio and iii) providing support to funded innovative products/services towards market and attracting follow-on funding and/or strategic partnerships or collaborations. His duties include facilitating linkages between the private and public sectors for the advancement and deployment of innovative technologies to end-users for increased productivity and sustainability. He has experience in funding start-ups for their technologies to be de-risked from a technical, commercial and legal perspective.

Obakeng holds a Master's degree in Plant Biotechnology and has previously worked at the Council for Scientific and Industrial Research in the Plant Biotechnology Division. He also worked for Bayer (nee Monsanto SA Pty Ltd) in the Plant Breeding Department.

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MS TSEMBANI KHUPANE
PROGRAMME MANAGER: SEED FUND; TECHNOLOGY INNOVATION AGENCY

Ms Tshembani Khupane is a Programme Manager under the Seed Fund Programme at the Technology Innovation Agency. She is responsible for evaluating Seed Fund applications for eligibility; serves as a member of Seed Fund committees in different institutions that assess applications for funding; prepares and presents investment recommendations to the committees for approval; manages a group of implementing partners and provides support; continuous monitoring and review of funded projects; contributes to and consolidates Seed Fund reports and performance targets; facilitates follow-on funding and commercialisation for Seed Fund projects; and interacts with stakeholders, follow-on funders and other role players in the South African National System of Innovation.

Tshembani Khupane has eight years' experience in innovations' investment management. She also worked at the Agricultural Research Council where she was responsible for commercialising the institution research outputs. She worked at the Wits Commercial Enterprise and was responsible for overseeing a portfolio of contract research projects and Wits Seed Fund projects. Tshembani previously worked as an investment analyst at the Technology Innovation Agency Agri-biotech Unit for three years. She holds a BSc Hons degree in Agricultural Science and is currently in the process of completing an MPhil in Development Finance.

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MS BRIGITTE BINNEMAN
PROGRAMME MANAGER: TECHNOLOGY PLATFORMS PROGRAMME, TECHNOLOGY INNOVATION AGENCY

Ms Brigitte Binneman is a Programme Manager in the Technology Platforms Programme and Acting Head of the Youth Technology Innovation Programme (YTIP) at the Technology Innovation Agency. She has been working in the public sector in the technology, innovation, funding and commercialisation domain in various roles for the past 10 years. In her role as programme manager she aims to create a vibrant national bio-technology sector in South Africa, which will contribute to the South African Bioeconomy Strategy, by providing the technology platforms with funding support in order to lower the barriers to entry for other actors in the South African National System of Innovation to innovate, thereby enabling participation in technology development by providing infrastructure access and skilled expertise.

Brigitte is also responsible for the implementation of the YTIP programme to invest in young people who have innovative ideas, who through funding and development support, can lead to the commercialisation of youth-led technological innovations in collaboration with various role-players in the National System of Innovation.

Previously, Brigitte worked at the University of Pretoria and as a science and mathematics teacher for high school learners while completing her first masters' degree. She then joined the Innovation Fund which was among the institutions that merged to form the Technology Innovation Agency. Brigitte holds masters' degrees in Plant Science and Project Management.

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2. DELEGATION BIOGRAPHIES

INDUSTRY, PRODUCTS AND/OR SERVICES



MS KIMERA MOODLEY
PORTFOLIO MANAGER: HEALTH, TECHNOLOGY INNOVATION AGENCY

Ms Kimera Moodley is a Portfolio Manager and Acting Head of the Health Business Unit at the Technology Innovation Agency. The unit aims to deliver socio-economic value through funding and supporting technological innovation in healthcare products and services addressing the prevention, diagnosis, and/or treatment of priority diseases and conditions in South Africa. The intent is to translate South Africa's knowledge resource into impactful health products, commercial opportunities and sustainable enterprises.

Kimera is responsible for developing a portfolio of successful technology innovation projects with plans to progress through development stages towards commercialisation. Activities include strategy development, deal sourcing, assisting applicants in building fundable projects and business cases, transitioning projects through the approval processes, facilitating deal structuring and contracting, risk management, monitoring and evaluation and overall support to projects. Her role also includes facilitating networks and partnerships for projects and support for initiatives within the South African National System of Innovation.

Kimera holds a BSc Honours degree, majoring in Biotechnology. She previously participated in the University of KwaZulu-Natal Centre for Plant Germplasm Conservation Research Programme looking at cryopreservation of germplasm of selected species. Due to a deeper interest in the health sector, she later joined the South African HIV/AIDS Research and Innovation Platform, contributing to management and monitoring of the project portfolio before joining the TIA Health Unit. She has nine years' experience in project management, and over five years' experience in portfolio management, specifically in health project/investment management and innovation.

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MS TANDOKAZI NQUMA-MOYO
BUSINESS DEVELOPMENT MANAGER;
TECHNOLOGY INNOVATION AGENCY

Ms Tandokazi Nquma-Moyo graduated with her first degree, a Bachelor of Science in Biochemistry and Microbiology in 2006, at the age of 19. She also holds an Honours Degree in Microbiology, focusing on ethnomedicine. Tandokazi was awarded a scholarship by the Department of Energy through the South African National Energy Development Institute in 2008 to pursue her master's degree in biochemical engineering, focusing on alternative energy solutions. Tandokazi also holds a Diploma in Business Management as well as various certificates.

Tandokazi started her industry career in 2010 as a Sector Specialist Graduate at the Coega Industrial Development Zone; a Special Economic Zone in South Africa. She has held various senior positions and is currently employed at the Technology Innovation Agency as a Business Development Manager responsible for establishing and leveraging ideas to market partnerships. She also establishes opportunities and programmes to attract third party funding and market access or commercialisation opportunities.

Among Tandokazi's career highlights is winning an award from the former Minister of Science and Technology for her excellence in innovation management.

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DR ALFRED THUTLOA
HEAD OF CORPORATE & MARKETING COMMUNICATIONS;
SOUTH AFRICAN MEDICAL RESEARCH COUNCIL

Dr Alfred Thutloa is the Head of Corporate and Marketing Communications at the South African Medical Research Council (SAMRC). Alfred provides specialised strategic support to the President & CEO, the Executive Management Committee, along with research and business units by implementing an integrated communication and marketing plan for the SAMRC, while leading and managing the SAMRC's Communications.

Alfred started working in early 2006 for first Tswelopele Productions, then Touchline Media. His experience in communications and marketing spans over 10 years. He was previously the Corporate Relations Manager at the SAMRC.

Before the SAMRC, Alfred headed marketing and communications for a pan-African research and advocacy organisation. He also led the marketing and strategic partnerships portfolio for a corporate and leisure brand operating in Cape Town and Mauritius. He was a Philanthropy Programme Coordinator for the SA Institute for Advancement, and a Communications Specialist at MMI Holdings focusing on health communications. He also coordinated communications for mothers2mothers, a non-profit that employs, trains and empowers HIV-positive women as community health workers across Africa.

Alfred holds a doctorate in Linguistics (specializing in health communications) from the University of the Western Cape, a Masters degree in Intercultural Communication, a postgraduate degree in Cultures and Heritage Studies and a Bachelors in International Studies from Stellenbosch University.

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DR MICHELLE MULDER
SENIOR PROGRAM MANAGER: GRANTS, INNOVATION AND PRODUCT
DEVELOPMENT; SOUTH AFRICAN MEDICAL RESEARCH COUNCIL

Michelle has a doctorate in Medical Microbiology from the University of Cape Town and has post-doctoral experience in a start-up biotechnology company emanating from the University of Cambridge (UK). She spent 10 years consulting on technology innovation through her own company, including five years driving business development for two start-up companies. She has also been involved for the last 15 years in the strategic management and commercialization of the SAMRC's intellectual property and in extensive capacity building in these areas in Southern and East Africa. Michelle has also spent the last six years managing grant funding for the SAMRC. Her current roles at the SAMRC include heading the Technology Transfer Office, the Global Health Innovation Accelerator and the GIPD HIV Programme, and oversight of various grant programs and strategic projects.

Michelle served as a member of the Executive Committee of the Southern African Research & Innovation Management Association (SARIMA) for 10 years, including three years as Vice President: Innovation and Technology Transfer, and two years as President. She served previously as Chair of the Board of Acorn Technologies, a life sciences incubator, a director of the Licensing Executive's Society South Africa, the South Africa Liaison for the Life Sciences Committee of LESI, and a member of the Higher Education South Africa (HESA) Strategy Group for Innovation and Technology Transfer. She currently serves as a board member of the Biologicals and Vaccines Institute of SA (Biovac). In 2015 she received the DST/SARIMA award for Excellence in the Leadership of Innovation Management.

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2. DELEGATION BIOGRAPHIES

INDUSTRY, PRODUCTS AND/OR SERVICES



DR ANA CASANUEVA

PROJECT MANAGER: TECHNOLOGY; GRANTS, INNOVATION AND PRODUCT DEVELOPMENT; SOUTH AFRICAN MEDICAL RESEARCH COUNCIL

Ana Casanueva is a Project Manager in the Grants, Innovation and Product Development Unit of the South African Medical Research Council (SAMRC). She manages a number of grants in the HIV, TB and Digital Health Programmes, as well as undertakes Technology Transfer activities for the SAMRC-owned intellectual property. She is also involved in the Global Health Innovation Accelerator within the SAMRC and is undertaking a landscape analysis of the local medical device innovation.

Ana holds a doctorate in Molecular and Cell Biology from the University of Cape Town, as well as a Postgraduate Diploma in Business Administration. She worked as a postdoctoral fellow and research manager at the University of the Western Cape and eventually specialised in the Innovation and Technology Transfer sector. She worked as an Innovation Professional at the University of the Western Cape for seven years and worked as a Technology Innovation consultant for a short period before joining the SAMRC in October 2017.

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MR EARL JASON PRINSLOO

PROJECT MANAGER: GRANTS, INNOVATION & PRODUCT DEVELOPMENT (GIPD); SOUTH AFRICAN MEDICAL RESEARCH COUNCIL

Earl Jason Prinsloo is a Project Manager in the Grants, Innovation and Product Development Division (GIPD) unit at the South African Medical Research Council (SAMRC). Earl manages a portfolio of projects within the area of mental health and nutrition, as well as embarking upon a landscape analysis within the local medical device manufacturers industry. Previously he was employed by Stellenbosch University's Obstetrics and Gynecology department and was involved in a research study involving a cohort of 7000 pregnant women from a particular catchment area within the Western Cape. Thereafter, Earl worked in the private sector, for BroadReach Health Care, engaging with the Department of Health to prepare them for quality audits from the office of Standards and Compliance.

Earl holds a BA (Honours) degree in Social Sciences with a particular focus on population health and dynamics as well as a Post-Graduate Diploma in Public Health, both from the University of the Western Cape. Currently he is a part-time Master's of Public Health student at the same institution.

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MS RIZWANA MIA

SENIOR PROGRAM MANAGER: GRANTS INNOVATION & PRODUCT DEVELOPMENT; SOUTH AFRICAN MEDICAL RESEARCH COUNCIL

Rizwana Mia joined the SAMRC in February 2015 and currently serves as a Senior Program Manager within the Grants Innovation and Product Development team. She is responsible for developing the South African Precision Medicine program and incorporating the South African Precision Medicine Think Tank. She has spearheaded a strategic partnership to initiate large scale whole human genome sequencing for Southern Africa. This has culminated into the establishment of the SAMRC Genomics Centre. The Centre boasts a large-scale high through put workflow to create the potential to localize large scale genome sequencing studies on the African Continent. Prior to her appointment she served at the Technology Innovation Agency (TIA) for eight and half years. Rizwana has a strong genetics and product development background. She began her career when she established a local start-up company called the Institute of Diagnostics Research. She spent four years establishing a facility, developing and producing monoclonal antibodies in-vitro. She served as a Senior Investment Specialist focusing on building the TIA Health Innovation portfolio in the area of Vaccines and Biologicals. Rizwana has gained significant experience in the South African National System of Innovation. She served as interim project manager on the Western Cape Regional Innovation Forum to devise a roadmap for a regional innovation framework. She played a key role in strategic projects such as the Cape Health Technology Park Feasibility study. Furthermore, she has played an instrumental role in unpacking the vaccines and biological landscape and has contributed significantly to key biotechnology strategies. Rizwana continues to strive towards enabling new initiatives in South Africa and is currently focused on initiating the Precision Medicine Program to drive the development of the Precision Medicine Agenda for South Africa.

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2. DELEGATION BIOGRAPHIES

INDUSTRY, PRODUCTS AND/OR SERVICES



MS ANGELA CONWAY
CHIEF EXECUTIVE OFFICER; ACRO (PTY) LTD

With over 30 years of experience gained across all business areas and numerous industries, Angela has uniquely placed herself to be able to operate strategically and operationally within the Clinical Research Arena. After completing the National Diploma in Hotel Management, Angela went on to complete a Bcom degree with honours in Industrial Psychology. This was followed by a Bcom (Hons) in Finance, whereafter Angela sat her Board exams and qualified as a CA (SA). Angela also has a Postgraduate Diploma in Drafting and Interpretation of Contracts.

Angela has, over the years completed several additional training courses including intensive leadership training at Eli Lilly SA (Pty) Ltd, Emotional Intelligence courses, Employment equity, Labour, Tax and Corporate Governance updates. Lifelong learning is one of her key beliefs and training and development is encouraged at all levels of the organisation. Angela has represented Eli Lilly at IMSA and ACRO at PIASA, both key Industry organisations. Angela was active on a task team at Endeavor SA, identifying and refining the process for talent management in organisations and was recently requested to present on talent management for up and coming entrepreneurs.

Angela began her career in Hotel Management where she gained valuable experience in all aspects of business, whether financial, legal or customer focused. Thereafter, Angela started her career in the pharmaceutical industry, joining Beecham SA Ltd in the HR department. This was followed by a position as HR Administrator at African Shipping Ltd- Isando. Angela joined Eli Lilly SA (Pty) Ltd in 1993, where she performed positions as HR Administrator, Benefits Administrator, Financial Accounts Manager, Financial Analyst and Business Development.

When Batswadi Pharmaceuticals SA (Pty) Ltd was established in January 2006, Angela joined as Chief Financial Officer responsible for HR, Finance, Operations and Corporate Governance. She was directly and solely responsible for setting up the company and offices, as well as establishing contracts, policies and systems. In 2007, when ACRO was formed, Angela once again assumed this responsibility, as well as the responsibility for establishing a legal entity in Kenya. Angela has gained experience in the areas of strategic management, risk management, legal, treasury, corporate governance, HR, Finance, cash management and supply chain management. Angela joined ACRO permanently in November 2008 as Chief Operations Officer thereafter assuming the role of Chief Executive Officer. Being able to operate both strategically and operationally, as well as being able to balance both the employees' and organisation's needs effectively has contributed to Angela's success in the key role of Chief Executive Officer at ACRO. With this experience and focus, Angela is ideally positioned to take ACRO to the next level.

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MR ASHLEY PEARCE
MANAGING DIRECTOR; ADCOCK INGRAM, SOUTH AFRICA

Ashley Pearce is the current Managing Director of Adcock Ingram Pharmaceuticals, the second largest Pharmaceutical Company in South Africa. He has over 30 years' experience in manufacturing, R&D, Sales and Marketing and Business Development in South Africa, Europe and the USA. He was the Managing Director for MSD SA, Schering Plough SA and Pharmacia SA as well as the former President of the Pharmaceutical Industry Association of South Africa.

Ashley qualified as a Pharmacist from Wits in 1984 and holds a B Comm Degree (awarded Cum Laude) majoring in Economics and Marketing from the University of South Africa.

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DR NIC DUNEAS
CHIEF EXECUTIVE OFFICER; ALTIS BIOLOGICS

Nicolaas Duneas is founder and CEO of Altis Biologics, a biotechnology company focused on tissue engineering and regenerative medicine of bone. Nic became involved in bone tissue engineering research in 1993, and co-discovered combination-osteogenesis during his PhD work which led to a number of publications reporting on novel growth factor combinations that can induce rapid regeneration of bone defects. Nic founded Altis Biologics in 2002 in South Africa, winning an important Innovation Fund award for the undertaking of human clinical studies on Altis' flagship commercial product, Osteogenic Bone Matrix (OBM). A number of international patents have been granted to Altis for OBM. Nic was the director of the Center for Tissue Engineering of the Tshwane University of Technology for seven years, in which period he supervised a number of academic works focused on bone tissue engineering. Nic also holds a post as lecturer at the University of Witwatersrand Oral Medicine and Periodontology department, where he supervises PhD candidates. He has been selected as an Endeavor entrepreneur, and the company has won a number of awards including the Innovation Prize for Africa (2014), the National Science Technology Forum award, and the Africa SMME award.

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MR DANIEL NDIMA
CHIEF EXECUTIVE OFFICER; CAPEBIO TECHNOLOGIES

Daniel Ndima is a structural biologist who specializes in structural biochemistry, crystallography, protein and genetic engineering. He has a Bachelor and Honours degrees in Biotechnology from the University of the Western Cape, Cape Town. He subsequently obtained a Masters degree in Biochemistry (Structural Biochemistry) from the University of Pretoria. Throughout his academic journey, he was awarded multiple awards and scholarships for his excellence in academics, social responsibility, leadership and entrepreneurial initiatives. He is a fellow and proud beneficiary of the prestigious entrepreneurial development scholarship -Allan Gray Orbis Foundation and leadership development -Mandela Rhodes Foundation. He is also a Brightest Young Minds Alumnus and a CSIR nominated Standard Bank Rising Star. Daniel has served as a Non-Executive Director and a Board Member for various Youth and Entrepreneurial Development Non-Profit Organizations. He is the former Executive Chairman of Achievers Elevation Foundation - A youth education and skills development NPO based in the Western Cape Province. He founded 3 (three) different enterprises as an undergraduate student and was subsequently awarded the Vice Chancellor's Award at the University of the Western Cape.

As a Fellow of the Allan Gray Orbis Foundation, an organization that develops future high-impact entrepreneurs who aspire to make a positive socio-economic impact in Africa, Daniel strongly advocates for science that creates jobs, alleviates poverty, contributes to national development and the economy. Daniel has worked at the Council for Scientific and Industrial Research (CSIR) towards the commercialization of technologies as a technologist and business developer for CapeBio project. He is now the CEO of CapeBio Technologies (CapeBio), a new South African applied metagenomics company that develops Life Science tools and molecular biology reagent enzymes kits discovered from South African Biodiversity hotspots. The products developed at the CSIR are now sold to local research organizations and companies to innovate in their respective academic research, diseases diagnostics and pathologies and those that innovate in the healthcare industry.

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2. DELEGATION BIOGRAPHIES

INDUSTRY, PRODUCTS AND/OR SERVICES



MS DINEO LIOMA
CO-FOUNDER AND COO; CAPEBIO TECHNOLOGIES

Dineo Lioma is the co-founder and COO of CapeBio Technologies, a biotechnology company that develops, manufactures and distributes “best-in-class” reagent enzymes for use in Life Science research activities. CapeBio is a spin-out company from the South African Council of Scientific Research (CSIR) which spent several years developing and validating its proprietary bio-manufacturing processes for the production of these reagent enzymes. Together with her business partner, Daniel Ndima, one of the lead researchers of the project, they are committed to building a world-leading genomics and molecular biology company.

Miss Lioma is a well-rounded individual that cares deeply about the well-being of vulnerable people. She is driven to create meaningful solutions that will impact the status of health care in Africa. Dineo is also the founder of Deep Medical Therapeutics, a social enterprise that is building an artificial intelligent (AI) solution that will assist medical practitioners to make more informed and accurate therapy recommendations in resource-limited settings. The company has collaborated with IBM South Africa and IBM Research Africa to develop an easy-to-use, AI-powered decision-making platform to treat drug-resistant diseases prone to Africa using genomic data. She also previously served as the co-founder of Incitech, a medical diagnostics company that is developing a novel rapid HIV diagnostic device that will improve testing outcomes in regions most affected by the disease.

She is the elected Vice President of the Ventures Portfolio for the Association of Allan Gray Orbis Foundation Fellows, an NPO focused on developing high-impact and ethical entrepreneurs that will create wealth for Africa and will improve the socio and economic challenges it faces.

Dineo holds an MPhil in Micro and Nanotechnology Enterprise (with distinction) from the University of Cambridge, a BSc in Metallurgical and Materials Engineering (24 distinctions) and is completing her second Masters by Research at the University of the Witwatersrand.

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**DR JUDITH HORNBY****PHD, MBA; PROJECT PORTFOLIO MANAGER; CENTRE FOR PROTEOMICS AND GENOMICS RESEARCH**

Dr. Judith Hornby was awarded her doctorate in the field of Protein Chemistry from the University of Witwatersrand. This was followed by a highly driven and focused five-year period of postdoctoral research at the University of Arizona, USA. Judith has successfully published many scientific articles in international peer reviewed scientific journals and expanded her knowledge into the business arena, having completed a MBA degree (University of Stellenbosch, RSA). She has been serving as the Project Portfolio Manager at the Centre for Proteomic and Genomic Research (CPGR) since 2013. Her position serves the pivotal dual role of managing the project selection process and facilitating the completion of projects to the highest standards. She supports strategic Government (DST) initiative projects hosted by the CPGR as well as start-up entrepreneurial projects under the organizations incubator program. Currently Judith also manages the Human Resource unit at the CPGR, specifically talent retention and statutory requirements.

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**MR RANDALL CRISP****LIFE SCIENCE REGIONAL MANAGER: SUB-SAHARAN AFRICA; CLARIVATE**

Mr Randall Crisp is a Life Sciences and Pharmaceutical Development specialist for sub-Saharan Africa within Clarivate Analytics. He received his undergraduate and post graduate degrees in Biotechnology from the University of the Western Cape before entering the scientific equipment industry, specializing in high resolution microscopy imaging at Carl Zeiss South Africa. Within Clarivate Analytics, his responsibilities include fostering an environment within which members of the industry from discovery to commercialization uncover what they didn't know. Understanding the competitive space within such a diverse yet demanding industry with many unanswered questions can be a challenge but navigating the unique challenges we face in Africa become easier to address through intelligent usage of curated data.

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**DR TIM NEWMAN****PROGRAM MANAGER; DIPLOMICS**

Dr. Timothy K Newman (Tim) is the program manager for DIPLOMICS, a six-year grant from the South African Department of Science and Technology that is hosted by the Centre for Proteomics and Genomics Research in Cape Town, South Africa. Tim has a PhD in Molecular Anthropology from New York University and spent 13 years in private and government biomedical research in the USA before moving to South Africa. Over the last nine years, Tim has worked for the Technology Innovation Agency as a portfolio manager in Health Biotechnology, a business development manager for technology platforms, and is currently seconded to the Centre for Proteomics and Genomics Research in Cape Town to manage DIPLOMICS.

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2. DELEGATION BIOGRAPHIES

INDUSTRY, PRODUCTS AND/OR SERVICES



DR MICHELLE MIDDLE
CHIEF MEDICAL OFFICER; FARMOVS (PTY) LTD;
UNIVERSITY OF THE FREE STATE

Michelle Middle holds a Medical degree and a Master's degree in Pharmaceutical Medicine, has 26 years medical and research experience and has worked in South Africa, the US and the UK. She is currently the Chief Medical Officer at FARMOVS, a full service specialty CRO wholly owned by the University of the Free State. She has worked for four years as Medical Advisor and Strategic Business Executive for international company Synexus, globally the largest Clinical Research Site Management Organization, and for six years for PAREXEL International, one of the top six global CROs, where she held various international Executive Leadership positions.

Michelle was the founder and CEO of three Clinical Research companies in South Africa. FARMOVS conduct Phase I to IV clinical trials with a strong focus on conducting bioequivalence studies for registration of generic products globally.

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MR HB THERON
DIRECTOR BIOANALYTICAL SERVICES; FARMOVS

HB Theron hold a Master's Degree in Bioanalytical Chemistry which he obtained (Cum Laude) from the University of the Free State in Bloemfontein, South Africa. HB started his analytical chemistry career working for the South African Pulp and Paper Industry (SAPPI) as an assistant researcher. In 2002 he joined the FARMOVS bioanalytical services division as a bioanalyst; appointed for the development, validation and analysis of pharmaceutical entities in various biological matrices. During his career as a bioanalyst, he developed and validated over 30 bioanalytical methods. The FARMOVS laboratory was successfully inspected for the first time by the Food and Drug Administration (FDA) of the USA in 2004, conducted on a bioanalytical project validated by HB. Based on his technical expertise, HB was asked to join the business development group in 2007 and gained international exposure selling the bioanalytical services of the unit for a period of 7 years, before accepting the position of Director of the Bioanalytical Services Division in 2014.

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DR SAUL KORNIK
CHIEF EXECUTIVE DIRECTOR; CEO; HEALTHFORE

Saul Kornik is co-founder and CEO of Healthforce, an augmentation of technology and doctors that turns nurse-led clinics into specialist health centres. Healthforce has provided over 50,000 telemedicine doctor consultations since inception. Prior to Healthforce, in 2006, Saul co-founded Africa Health Placements, working to get doctors to where they are needed most. AHP has placed over 4,200 doctors who have served over 34 million people. He currently serves as chairman.

Saul has a postgraduate degree in machine learning, is a Chartered Financial Analyst, and has been awarded the Tutu Leadership Fellowship (2008), Yale World Fellowship (2013) and Rainer Arnhold Fellowship (2016).

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**MS GUGULETHU MKHIZE****GRANTS AND PROGRAM MANAGER: KWAZULU-NATAL RESEARCH INNOVATIONS AND SEQUENCING PLATFORM (KRISP); UNIVERSITY OF KWAZULU-NATAL**

Gugulethu Mkhize serves as a Senior Grants and Program Manager for the world-class KZN Research Innovation & sequencing platform (KRISP). She holds a BSc in Microbiology & Biochemistry and BSC Honors in Microbiology from University of Natal. She completed her MSc at University of Pretoria and decided to move to scientific support management position. She worked as a Senior Grants Manager at the WitsHealth Consortium for Professor Glenda Gray (current President & CEO of the SAMRC) for many years, before returning to KwaZulu-Natal (KZN) to co-lead the multi-million rands grant unit of KRISP. Currently she is actively involved in setting up the first Biotechnology Incubator in Durban (BID), which is being developed in partnership with the EThekweni Municipality, the University of KwaZulu-Natal, Investec and the Stanford SPARK Global Program. She is one of the senior members driving the creation of biotechnology startups in Durban, which aims to translate biomedical research discoveries for the improvement of health outcomes in Africa.

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**MR DARIAH DE VILLIERS****HEAD OF SCIENCE, INNOVATION AND COMMERCIALIZATION; LUMEGEN LABORATORIES**

Dariah has a background in Biochemistry with a passion for both business and science. He combined these to focus on the needs of the agricultural and veterinary industries of South Africa, specializing in industry focused development of molecular tests. Lumegen Laboratories was founded in 2013 and Dariah took over the company in 2015, while still a student. In 2016, he won the North-West University award for best student business. Since then he has continued to expand the portfolio of the company and the Laboratory is in line to get ISO accreditation in 2019.

The vision and mission of the company is to increase prosperity in the local community by providing high-quality molecular diagnostic services. With their collaboration with the North West University they are also providing new expertise and careers in the field of molecular diagnostics on a regular basis.

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**MR SIBUSISO MDLALOSE****EXECUTIVE DIRECTOR: BUSINESS DEVELOPMENT AND PARTNERSHIPS; LT CLINICAL RESEARCH MANAGEMENT SERVICES**

Sibusiso Mdlalose is the co-founder of LT Clinical Research (Pty) Ltd, a regional CRO operating across Africa since 2009. He is responsible for Business Development and Partnerships with pharmaceutical, diagnostic, biotechnology and academic organizations. Sibusiso has a strong understanding of the CRO business in Africa with over nine years' experience in the clinical research industry.

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2. DELEGATION BIOGRAPHIES

INDUSTRY, PRODUCTS AND/OR SERVICES



DR CHARLOTTE SCHOLTZ
CHIEF EXECUTIVE OFFICER; TOKABIO (PTY) LTD; SOUTH AFRICA

Dr Charlotte Scholtz is the Chief Executive Officer of TokaBio (Pty) Ltd. This is a start-up company specialising in animal diagnostics assay and platform development. TokaBio in collaboration with CSIR strives to develop novel functionality assays for infectious pathogen detection. Toka Bio furthermore focuses on the commercialisation and validation of a pipeline of point-of-care detection assays that have relevance to the African environment and landscape.

Dr Scholtz has more than 10 years' experience in the commercial Biotechnology space. She was a founder member of Genecare Molecular Genetics (Pty) Ltd and also worked as the Head of the Pharmacogenetics Laboratory at Synexa Life Sciences. Dr Scholtz holds a PhD in Human Genetics, completed a Business Management Diploma as well as obtained a qualification in Leadership Development. Dr Scholtz's understanding of both business and laboratory procedures greatly enhances her role in TokaBio.

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MR TYRON GRANT
PARTNER; SPOOR & FISHER

Tyron is a South African Patent attorney specialising in domestic and international patent matters, particularly in the field of Biotechnology and Life Sciences, including the preparation and prosecution of patent applications. He also assists with litigation matters related to biotechnological inventions and providing advice in respect of the Genetically Modified Organisms Act ("the GMO Act"), Plant Breeders' Rights Act ("The PBR Act") and National Environmental Management: Biodiversity Act (NEMBA). He is a member of the Biotech department at Spoor & Fisher where he has worked since 2005. He became a partner of the firm in 2013. He has been a Fellow of the South African Institute for Intellectual Property Law since 2013. In 2014 he was co-author for the Dean & Dyer Introduction to Intellectual Property Law textbook.

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MS CHYREENE TRULUCK
PATENT ATTORNEY; SPOOR & FISHER

Chyreene is a South African Patent attorney specialising in Biotechnology and Life Sciences patent matters. She holds an MSc in genetics and has worked in the field of intellectual property management for over ten years. Chyreene is primarily involved in domestic and international patent prosecution. She has extensive experience in managing IP portfolios, as well as negotiating and drafting IP-related transactions. Chyreene is a Senior Associate of Spoor & Fisher, where she also assists in assessing patentability, conducting IP due diligences and audits, drafting of agreements, providing general patent advice and assisting with obtaining plant breeders' rights protection. She is a Fellow of the South African Institute of Intellectual Property Law and a member of the Board of Directors for Licensing Executives Society (LES) South Africa. Chyreene is also a contributor of the annual update of the South African chapter in "International Pharmaceutical Law and Practice", Kleyn & van Wyk (General Eds.) LexisNexis, (2017-2018).

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DR JOANNE VAN HARMELEN
PATENT ATTORNEY; ENSAFRICA

Dr. Joanne van Harmelen heads up the Biotechnology and Life Sciences cluster in the intellectual property department at ENSafrica, Africa's largest law firm. Joanne holds a PhD in medical microbiology and vaccine development and is a highly experienced patent attorney specialising in the life sciences and pharmaceuticals sectors. Her expertise extends to the assessment of the patentability of inventions, preparation and filing of patent applications locally and abroad, performance of freedom-to-operate assessments, general IP commercial transactional advice, IP due diligence assessments, and advice on IP and biotech-related legislation, in particular, legislation relating to publicly financed research & development; bioprospecting involving indigenous biological resources and traditional knowledge; and genetically modified organisms. Joanne is also experienced in the preparation and filing of Plant Breeders' Rights applications. Joanne is a fellow of the South African Institute of Intellectual Property Law (SAIIPL), a member of the Southern African Research & Innovation Management Association (SARIMA) and the Life Sciences Committee for the Licensing Executive Society International (LESI), and a Director and Coordinator of the Life Sciences sub-chapter of the Licensing Executives Society (LES) South Africa.

Joanne's clients include leading international biotech companies and start-ups with operations in Africa, North America, Europe and Australasia and Asia. Joanne is recognised as a leading lawyer by the following reputable rating agencies Managing Intellectual Property – IP Stars, IAM Patent 1000, The Legal 500 EMEA and Best Lawyers® - Healthcare.

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PROJECT COORDINATOR



DR JUDY COATES
CONSULTANT; SOUTH AFRICA

Judy Coates is an independent consultant that has supported the organisation of South Africa's participation in the BIO Convention since 2014.

Judy has been in the Pharmaceutical industry for sixteen years, initially specializing in research and development and progressing into investment and thereafter government and regulatory affairs. Her career began with joining Mintek in 2003 after obtaining her PhD in Organic Chemistry at the University of Johannesburg (RAU). Judy started her research career in a secondment to University of Witwatersrand. During this time Judy went on a research visit to Heidelberg, Germany. Shortly after her return to South Africa she began heading up the Mintek AuTEK Biomedical Programme, along with taking on an honorary position at the University of Witwatersrand. At the end of 2012 Judy joined the Technology Innovation Agency (TIA), an entity of the Department of Science and Technology, in Pretoria as the General Manager: Health. She was responsible for the oversight and leadership of the TIA Health sector team; the development and implementation of the Health sector strategy, the management and growth of the Health investment portfolio and the management of various stakeholder relationships throughout South Africa. Following TIA Judy moved to the Innovative Pharmaceutical Association South Africa (IPASA) in 2015. Here Judy was responsible for monitoring trends, issues, problems, opportunities and activities in the healthcare environment, with a specific focus on Scientific and Regulatory Affairs. In 2018 Judy left IPASA to pursue private consulting. During this time Judy was head hunted and is now the Executive Director for the Southern Gauteng Branch of the Pharmaceutical Society of South Africa (PSSA SG). Judy still enjoys consulting opportunities as and when they arise. Over Judy's career she has engaged across multiple sectors including academia, government and the private sector.

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3. ABOUT PHILADELPHIA

THE TRI-STATE AREA BIOTECH HUB

Philadelphia and the surrounding tri-state area possesses a remarkable biotechnology and life sciences community that is of vital economic importance to each state, and directly provides high-paying, technically-skilled jobs to nearly 183,000 professionals in Delaware, New Jersey and Pennsylvania. These individuals are working tirelessly to help discover new cures and treatments for patients. They go to work every day at approximately 5,900 business establishments in the tri-state area, all with the shared common goal of helping patients in need of life-saving medications.

The region's vast array of leading universities and research institutions fosters a collaborative environment. Join us in Philadelphia next June as more than 16,000 attendees from around the globe gather for unparalleled partnering, education, networking, and to see all that tri-state area has to offer.

ABOUT PHILADELPHIA

You will be captivated by the 21st Century Renaissance City where an inspired, young, creative culture is blooming and partnering with innovators and educators. With a spirit of independence, the city and region are giving birth to a new generation of energized people designing this Modern Renaissance City.

Feel like a Philadelphian as you walk day and night through the vibrant streetscape and immerse yourself in America's Old and New World. Picturesque and

friendly streets are lined with parks, rivers, shops, public art, restaurants and museums. Everything is within walking distance from downtown.

TRAVEL TO PHILADELPHIA

Philadelphia is at the center of it all. It is easy and affordable to get here. Philadelphia is conveniently located in the Northeast United States, just 90 minutes from New York City and two hours from Washington, D.C., by train. Philadelphia International Airport serves more than 120 cities worldwide with 1,200 daily flights, including 120 international flights. The regional public transportation system provides quick and easy access to the city from the surrounding metropolitan area.

ARRIVING

Only 100 miles from New York City and 130 miles from Washington, D.C., we're not kidding when we say we're in the center of it all.

- **By plane:** There are more than 525 daily nonstop flights to PHL. Once you're here, it's a 20-minute ride on the SEPTA Airport Line right at the airport or a 20-minute ride in a taxi to cover the 10 miles from Philadelphia International Airport to Center City. SEPTA's Airport Line leaves every 30 minutes, and a one-way fare is \$6.75 when you purchase a Quick Trip from the Fare Kiosk on the platform. The taxi ride costs a flat rate of \$28.50.
- **By train:** Amtrak, Acela and commuter trains arrive at historic 30th Street Station throughout the day, placing passengers within a short walk of Center City. Philadelphia is only 1 hour and



20 minutes from New York City and 1 hour and 45 minutes from Washington, D.C., via Acela Express.

- **By bus:** Megabus offers low-cost express bus routes throughout the Northeast Corridor.
- **By car:** Almost half of the U.S. population is within a day's drive of Philadelphia. Interstates 95 and 76, and the Pennsylvania and New Jersey Turnpikes, provide access from all points on the compass. Once you arrive, there are more than 40 parking lots and garages in Center City. Pay with cash or credit. For a printable map of downtown parking, visit philapark.org.

GETTING AROUND PHILADELPHIA

Philadelphia has been ranked as one of the most walkable cities in the nation, but it also has a top-notch mass transit system and more.

- **Get oriented:** Thanks to founder William Penn's smart and simple grid street design, the heart of the city is easy to navigate. The Schuylkill and Delaware rivers border Center City's 25 blocks on the west and east. Keep in mind that, south of Market Street, streets running east and west are named after trees while north and south streets are numbered.
- **Check out the printable Center City map** (pdf) or view our interactive city map for more information.
- **Walking:** First-rate dining, arts and entertainment, famous historic sites and tax-free clothing and shoes shopping are within steps of Center City hotels, so you'll save on transportation. As you walk, you'll notice color-

coded directional signs that let you know what district you're in and point you toward area attractions. And look for Center City District's goodwill ambassadors, dressed in teal uniforms and equipped with maps, who are happy to give directions and answer questions.

- **Public transportation:** Base cash fare for SEPTA buses, trolleys and subways is \$2.50; transfers are \$1. Get the SEPTA Key Card and put money in the Travel Wallet and enjoy the discounted \$2 fare when you tap to ride. For families on the go, the best travel value is the One Day Family Independence Pass for \$30 (good for up to 5 people traveling together). Sightseeing solo? Try the One Day Individual Independence Pass for \$13. Both provide unlimited travel on all SEPTA modes of transportation for a full day.
- **Cab:** There are more than 1,800 licensed and trained cabs in Philadelphia. Or download the Uber app to order a town car to your location.
- **Philly PHLASH** is the city's seasonal transportation loop that makes it easy and convenient to get around to Philadelphia's most popular attractions. The bus costs \$5 for an all-day pass.
- **By Bike/Segway:** Check out Wheel Fun Rentals and Philadelphia Segway Tours for more information, or participate in Philly's bike share program, Indego. With more than 100 stations located throughout the city, go for a ride and explore Philadelphia, then return your rented bike to any station location.



4. EXHIBITION – SOUTH AFRICAN PAVILION

SOUTH AFRICAN PAVILION NUMBER: E301







Inspiring new ways