



SOUTH AFRICAN MEDICAL RESEARCH COUNCIL

The South African Medical Research Council (SAMRC) was established in 1969 to conduct and fund health research, health innovation, development and research translation. The SAMRC focuses on the top ten causes of mortality, co-morbidities, disability and associated risk factors. The scope of research includes laboratory investigations, pre-clinical and clinical research, and public health studies.

The mandate of the SAMRC is legislated in terms of Act 58, 1991 (as amended): 'the objects of the SAMRC are, through research, development and technology transfer, to promote the improvement of the health and quality of life of the population of the Republic, and to perform such functions as maybe assigned to the SAMRC by or under this Act'.

VISION

Building a healthy nation through research, innovation and transformation

MISSION

To advance the nation's health and quality of life and address inequity by conducting and funding relevant and responsive health research, capacity development, innovation and research translation.

SAMRC VALUES

The SAMRC is guided by the following values that form the foundation of our organisations:

Pioneering: We push the boundaries between the known and the unknown to further our knowledge of human health within the prescripts of responsible (ethical) conduct of research.

Partnering: We celebrate the capacity of collective minds towards a common goal. We build partnerships with many stakeholders at local, national, regional and international levels to exchange ideas, advances shared goals, optimize use of resources to minimise duplication, and leverage funding.

Excellence: We strive for distinction in everything we do by developing highly skilled personnel, capacity building and transformation, and conducting research of high value.

Respect: We value and respect our communities, participants, researchers and funders.

Integrity: We commit to transparency, accountability, open communication and ethical conduct.

Citizenship: We demonstrate responsibility to the community, nation and the World.

GOALS

1

Administer health research effectively and efficiently in South Africa

2

Lead the generation of new knowledge and facilitate its translation into policies and practices to improve health

3

Support innovation and technology development to improve health

4

Build capacity for the long-term sustainability of the country's health research

5

Translate new knowledge into policies and practices to improve health



ABOUT THE EXTRAMURAL UNIT

SAMRC research units (both intramural research units [IMUs] and extramural research units [EMUs]) are the prime vehicles for delivering relevant and responsive health research outputs to address both national and international health issues. While IMUs focus their research activities on public health and major burdens of disease in the country, EMUs may, in addition, undertake research in strategic research areas to generate new knowledge and grow the next generation of health scientists for the country. EMUs are established in higher education institutions (mainly universities) and other research intensive organisations such as the National Health Laboratory Service. The need for EMUs was further emphasised in the Report on the Revitalisation of the SAMRC, where it was noted that the SAMRC should drive a new initiative to broaden and deepen its involvement in health research in South Africa.

The funding for the SAMRC EMUs represents a secure, discretionary, financial incentive which is approved in five-year cycles, up to a term limit of 15 years depending on satisfactory performance. It is expected that institutional support and co-funding and the other grants received by the Unit should exceed several-fold the amount invested by the SAMRC in the Unit.

In the 2019/20 FY, EMUs were measured against three of the five SAMRC strategic goals; goals 2, 3, 4.

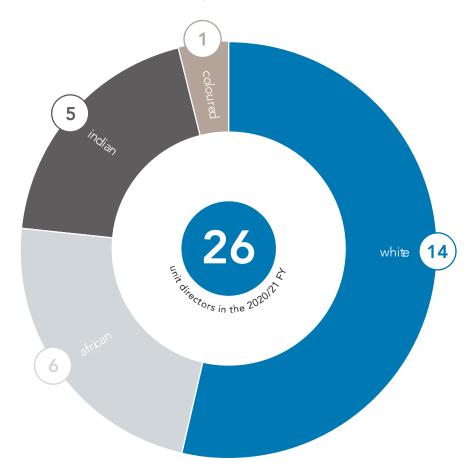
This document details synthesised data from the Annual reports submitted by EMUs for the 2019/20 Financial Year and concludes with information showing some of the impact emanating from the EMU research efforts.

SAMRC Extramural Research Units as at 1 April 2020 (listed alphabetically)

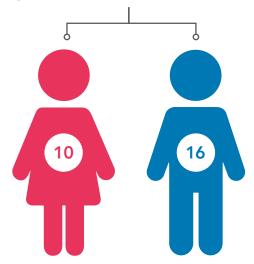
SAMRC EXTRAMURAL UNITS	UNIT DIRECTOR	INSTITUTION	DATE OF ESTABLISHMENT
Antibody Immunity	Prof Lynn Morris	University of the Witwatersrand	2019
Antiviral Gene Therapy	Prof Patrick Arbuthnot	University of the Witwatersrand	2015
Bioinformatics Capacity Development	Prof Alan Christoffels	South African National Biodiversity Institute	2001
Cardiometabolic Health	Prof Tandi Matsha	Cape Peninsula University of Technology	2019
Centre for the Study of Antimicrobial Resistance	Prof Keertan Dheda	University of Cape Town	2018
Centre for Health Economics and Priority Setting	Prof Karen Hofman	University of the Witwatersrand	2019
Child and Adolescent Lung Health	Prof Heather Zar	University of Cape Town	2015
Development Pathways for Health	Prof Shane Norris	University of the Witwatersrand	2010
Drug Discovery and Development	Prof Kelly Chibale	University of Cape Town	2007
Genomics of Brain Disorders	Prof Soraya Seedat	Stellenbosch University	2019
Health Services to Systems	Prof Helen Schneider	University of Western Cape	2015
Herbal Drugs	Prof Alvaro Viljoen	Tshwane University of Technology	2015
HIV-TB Pathogens and Treatment	Prof Salim Karim	CAPRISA	2015
Hypertension and Cardiovascular Disease	Prof Aletta Schutte	North West University	2015
Immunology of Infectious Disease	Prof Frank Brombacher	University of Cape Town	2000
Masculinity and Health	Prof Kopano Ratele	University of South Africa	2019
Maternal and Infant Health Care Strategies	Prof Robert Pattinson	University of Pretoria	1998
Microbial Water Quality Monitoring	Prof Anthony Okoh	University of Fort Hare	2015
Molecular Mycobacteriology	Prof Valerie Mizrahi	University of Cape Town	2000
Precision Prevention and Novel Drug Targets for HIV-Associated Cancers	Prof Zodwa Dlamini	University of Pretoria	2019
Risk and Resilience in Mental Disorders	Prof Dan Stein	University of Cape Town	2017
Rural Public Health and Health Transition	Prof Stephen Tollman	University of the Witwatersrand	2003
Stem Cell Research and Therapy	Prof Michael Pepper	University of Pretoria	2015
Unit for Precision and Genomic Medicine	Prof Rajkumar Ramesar	University of Cape Town	2018
Vaccine and Infectious Analytics	Prof Shabir Madhi	National Health Laboratory Services	2020
Wound and Keloid Scarring Translational	Prof Nonhlanhla Khumalo	University of Cape Town	2019

PROFILE OF UNIT DIRECTORS

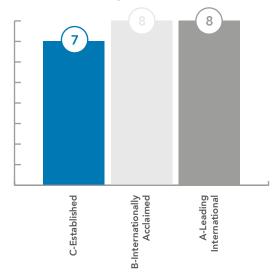
Of the **26 UDs, 46%** are from **previously disadvantaged background.** The SAMRC is always working to find ways of increasing the number of researchers excluded in the past.



Towards the promotion of women in science, the number of **Female** UDs has increased from **24%** in **2014** to **39%** presently.

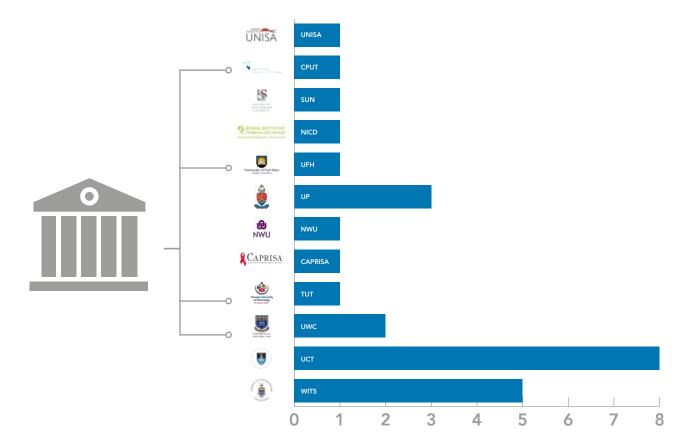


Most of the researchers are **NRF rated** which is an official **affirmation** and a national **recognition** of their **scientific stature** and **research expertise**.

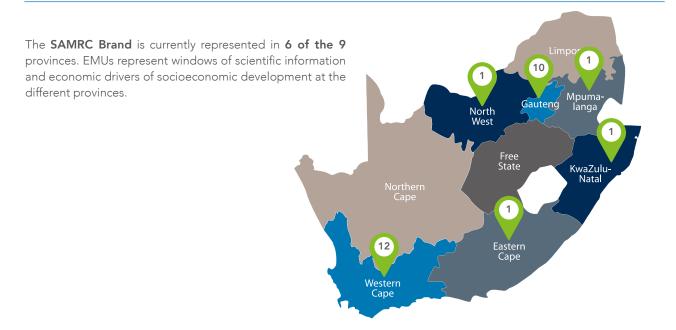


PROFILE OF HOSTING INSTITUTIONS

The **SAMRC** is currently **represented** in **12 institutions** and is committed to the capacity development of **HDIs**; **of the 12 institutions**, **4 are HDIs**.



EMU PROVINCIAL SPREAD

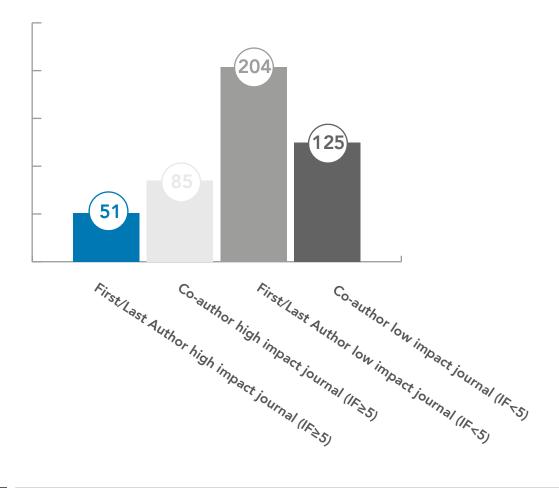


RESEARCH OUTPUT



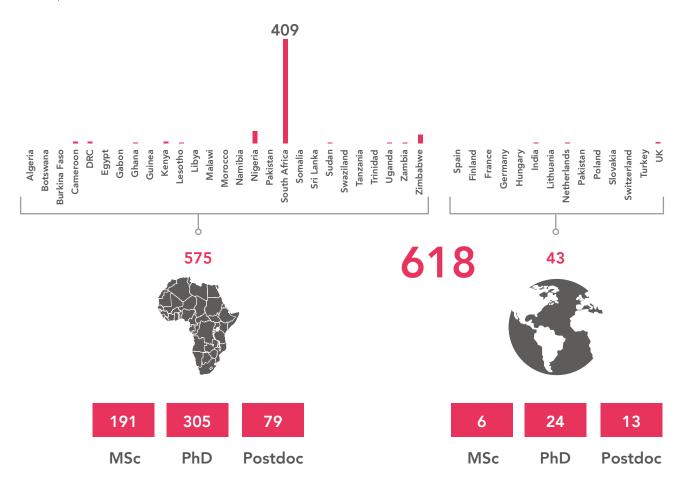
EMUs produced 465 peer-reviewed publications in 2018/19; 50% of the total SAMRC research output.

Of the 465 peer-reviewed publications from the EMUs, 55% were first authored by researchers from the EMUs.



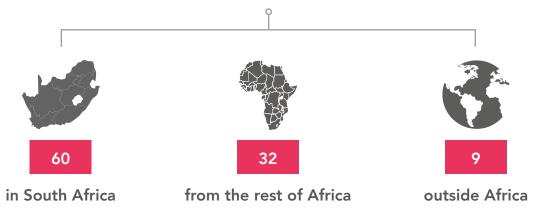
CONTRIBUTION TO CAPACITY DEVELOPMENT

While the **training of SA students takes priority**, the training of students from outside SA prioritizes the capacity development of students from other African countries



EMUs have the discretion to use the funding received as per the needs of the EMU. This allows the EMUs to use a portion of the funding towards capacity development, which contributes to the development of future leaders in medical research, not only in SA, but also in other parts of Africa.

101 students were sponsored with EMU/SAMRC Funding; of the students from outside SA, priority is given to students from the rest of Africa

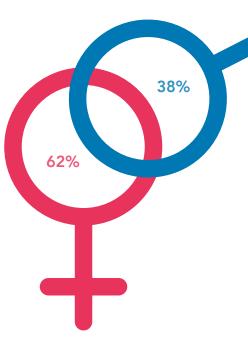


OUTPUT OF CAPACITY DEVELOPMENT

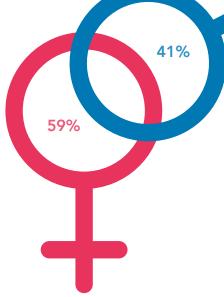


108 students graduated in 2019/20.

50 MSc students graduated



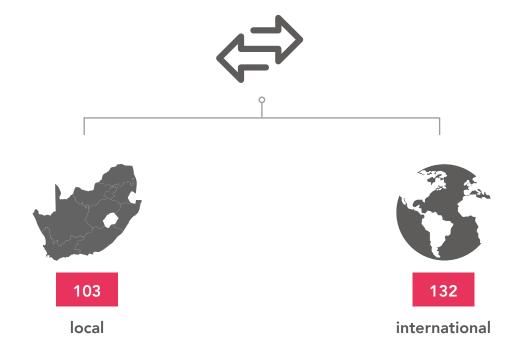
58 PhD students graduated



PARTNERSHIPS

Building partnerships and collaborations are mechanisms by which capacity is built and research skills are exchanged. In ensuring that projects have the desired outcomes and contribute to the enhancement of national priorities, EMUs are part of partnerships that drive our country's research agenda and originate from a real need to address the country's health problems.

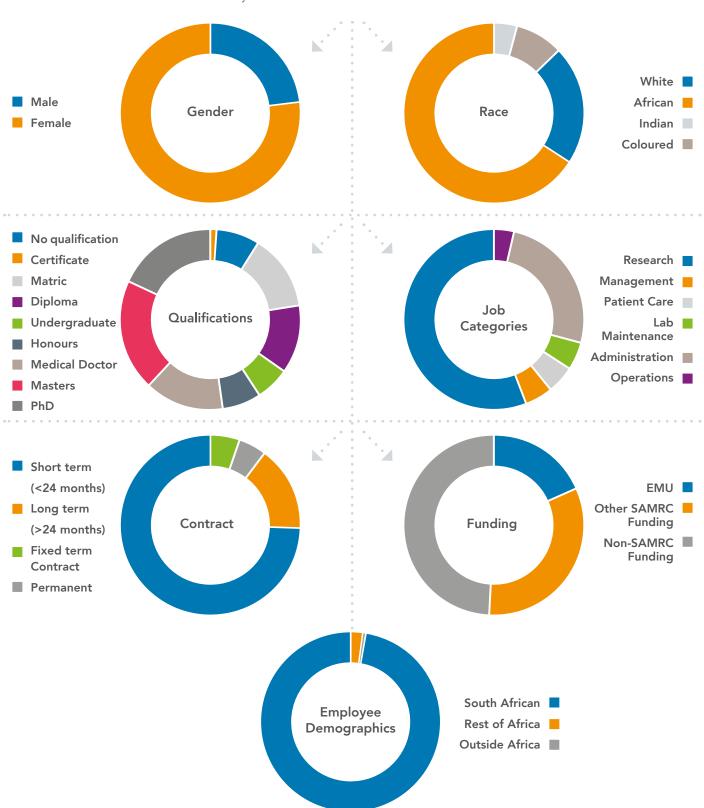
There are currently **235 EMU Collaborations** for the **2019/20 FY**; indicative of mechanisms by which **research skills** and **practice knowledge** is exchanged, developed and enhanced.





JOBS CREATED BY EMUS

There were **197 Jobs created** in 2019/20; most of the jobs are **high value**, **knowledge-based jobs** that contribute to medical research and the economy.



FUNDING RAISED BY THE EMUS

The **total funding** received by **EMUs** in 2019/20 was ~**R 478,000,000**R 477,970,325



The **total SAMRC Funding** received by EMUs in **2019/20** is

~R 123,000,000

R 122,665,605

The total leveraged funding (non-SAMRC) $\ensuremath{\mathsf{received}}$

by EMUs 2019/20 is

~R 355,000,000

R 355,304,720



The total EMU baseline + incentivised funding

received in 2019/20 is

~**R 29,000,000** *R 28,560,507*

The total funding from other SAMRC Programs (RCD, SHIP, Flagship, etc) received by EMUs in 2019/20 is

~**R 94,000,000** *R 94,105,099*



AWARDS RECEIVED BY EMUS

The number of local and international awards is a reflection of the reach and significance of the EMU research.



SOME OF THE LOCAL AWARDS RECEIVED

Social Innovation Award
NSTF-South 32 Award
Best Oral Presentation Award
SAMRC Platinum Scientific Merit Award
Vice-chancellor's Research Award
Young Researcher Award
Lifetime Achievement Award
Academic Excellence Award
SAMRC Gold Medal Award
Harry Oppenheimer Fellowship Award
SAMRC Scientific Merit Award
South African Health Excellence Award

SOME OF THE INTERNATIONAL AWARDS RECEIVED

Best Research Poster Award
Best Oral Presentation Award
Young Physician Leaders Award
Aspen New Voices Fellowship Award
One of the 100 Most Influential Africans Young Award
African Researcher Award
Trust Discretionary Award
Lifetime Achievement Award



SUMMARY OF EMU IMPACT

	2017/18	2018/19	2019/20
Regional Leadership			
EMU Institutional spread	8	8	11
Equity in the leadership (UDs)			
#previously disadvantaged UDs	33%	36%	44%
#women UDs	22%	21%	39%
Knowledge creation			
Publications	430	465	
#Collaborations	40	155	235
#Local	33	80	103
#International	7	75	132
Creation of Human Capital			
#Students registered	426	575	618
#female students	65%	64%	63%
#previously disadvantaged	64%	67%	69%
#students trained from rest of Africa	76%	78%	79%
#students sponsored from rest of Africa	81%	81%	78%
#Students graduate	97	76	108
#MSc students	51	29	50
#MSc-female	78%	72%	62%
#PhD students	46	47	58
#PhD-female	54%	51%	59%
#Jobs created	161	247	197
Regional influence			
Total funding raised	R390m	R548m	R478m
#Jobs created	161	247	197
#Awards received		25	45
#National		18	27
#International		7	18

