

## CURRENT RESEARCH AWARDS

### POLIOMYELITIS RESEARCH FOUNDATION

#### 2020 award list

BURSARY					
APPLICANT	INSTITUTE	SUPERVISOR	PURPOSE	GRANT NO	PAYMENT REFERENCE
Abrahams Ms B	University of Cape Town	Dr Zenda Woodman	Investigate how the female genital tract microbiome influences the anti-retroviral efficacy of tenofovir-containing microbicides	19/69	PRF Abrahams 19/69
Adonis Ms J	University of the Western Cape	Prof Burtram Fielding	TRAIL gene-armed baculovirus induced apoptosis in transformed cells	18/73	PRF Adonis 18/73
Bell Mr JG	University of Pretoria	Dr Naazneen Moolla	Development of a recombinant antigen-based Indirect Immunofluorescence assay for the diagnosis of Lassa fever	19/43	PRF Bell 19/43
Bhengu Miss SP	University of Kwa-Zulu Natal	Dr Paradise Madlala	Functional characterization of human immunodeficiency virus type 1 subtype C (HIV-1C) transmitted/founder (T/F) viruses long terminal repeat (LTR) variants and associated with disease outcome	20/10	PRF Bhengu 20/10
Bonnet Miss E	University of Pretoria	Prof Marietjie Venter	Molecular and serological characterization of Middelburg virus and lesser known alphaviruses in South Africa using an One Health approach	20/30	PRF Bonnet 20/30
Boughan Miss S	University of Pretoria	Dr Vida van Staden	Functional role of African horse sickness virus non-structural protein NS4 in the nucleus	19/72	PRF Boughan 19/72
Butters Miss C	University of Cape Town	Dr William Horsnell; Dr Katherine-Ann Smith	Regulation of HPV infection and cervical cancer development following a helminth infection	20/51	PRF Butter 20/51
Carse Miss S	University of Cape Town	Dr Georgia Schäfer	Development and characterisation of SP-A for use in topical microbicides as a novel preventative means against sexually transmitted HPV and HSV-2 infections in a murine model	19/100	PRF Carse 19/100
Chineka Miss AN	University of Cape Town	Dr Ros Chapman; Dr Nicola Douglass	Employment of a host range selection system for the construction of recombinant lumpy skin disease virus (LSDV) candidate vaccines	20/01	PRF Chineka 20/01
Coertzen Ms C	University of Pretoria	Dr Vida van Staden	Investigating ORF2 in genome segment 10 of African horse sickness virus	20/02	PRF Coertzen 20/02
Daniels Miss A	University of the Western Cape	Prof Megan Shaw	Investigating the antiviral effect of compounds C33 and C119 on influenza A virus	20/41	PRF Daniels 20/41
Davids Miss M	University of Pretoria	Dr Walda van Zyl	Epidemiology and molecular characterisation of human adenoviruses from environmental samples in Tshwane, Gauteng	19/44	PRF Davids 19/44
Dimaculangan Miss M	University of the Free State	Prof Felicity Burt	Development of molecular assays for the detection of mosquito-borne alphaviruses in South Africa	19/46	PRF Dimaculangan 19/46
Eche Mr S	University of KwaZulu-Natal	Dr Michelle Gordon	Functional and structural characterization of HIV-1 subtype C protease	19/102	PRF Eche 19/102

Gwala Mr S	University of Pretoria	Dr Lieza Odendaal	Validating RT-qPCR for Rift Valley fever viral RNA in formalin-fixed, paraffin-embedded tissues of natural cases in sheep	20/11	PRF Gwala 20/11
Gwynn Miss A	University of Cape Town	Ann Meyers	Production of a Chimeric Bluetongue Virus-like Particle Vaccine in Plants	19/92	PRF Gwynn 19/92
Herbert Mr J	North-West University	Prof Albie van Dijk	Investigating the role of rotavirus GS10(NSP4) and GS6(VP6) in reassortment	20/44	PRF Herbert 20/44
Hlatshwayo Mr VN	University of the Witwatersrand and National Institute for Communicable Diseases (WHC)	Prof Penny Moore	Defining the development of gp120-gp41 interface directed broadly neutralizing antibodies in HIV-1 infection	19/74	PRF Hlatshwayo 19/74
Hurree Miss JN	University of Cape Town	Melissa- Rose Abrahams	Evaluating the sensitivity of HIV-1 detection in breast milk by using droplet digital PCR	20/03	PRF Hurree 20/03
Janse Van Rensburg Ms M	University of Pretoria	Dr Walda van Zyl	The diversity of enteroviruses from cerebrospinal fluid specimens, collected from hospitalised patients in the private and public sector, in Gauteng	20/12	PRF JVRensburg 20/12
Jeal Miss R	University of Pretoria	Prof. Marietjie Venter	Differential diagnosis of zoonotic arboviruses associated with neurological syndromes in animals and associated risk factors in South Africa	19/75	PRF Jeal 19/75
Jeewanraj Ms N	University of Kwa-Zulu Natal	Jaclyn Mann	Investigation of compartilisation of HIV-1 subtype C between lymph nodes, peripheral blood mononuclear cells and plasma	20/13	PRF Jeewanraj 20/13
Kairuz Mr D	University of the Witwatersrand	Prof Patrick Arbuthnot	Use of in vitro transcribed artificial primary micro RNAs to disable hepatitis B virus replication	20/46	PRF Kairuz 20/46
Kariem Miss Z	University of Stellenbosch	Dr Corena de Beer	Attempting full genome sequencing of previously detected alphacoronaviruses using Sanger sequencing	20/45	PRF Kariem 20/45
Khan Mr SF	University of Cape Town	Professor Sharon Prince	The human papilloma viral E6/E7 oncoproteins co-operate with the oncogenic TBX3 transcription factor to promote cervical cancer cell proliferation and migration	20/31	PRF Khan 20/31
Koor Mrs GW	National Institute for Communicable Diseases	Prof Caroline Tiemessen	Exploring the interplay of chemokine receptors CCR5 and CXCR6 in mechanisms of natural control in HIV-1-infected black South Africans	20/32	PRF Koor 20/32
Le Roux Mr P	North-West University	Prof Albie van Dijk	Investigating the feasibility of generating chimeric intergroup rotavirus triple-layered virus-like particles on SA11 double-layered particles	20/47	PRF Le Roux 20/47
Limani Ms SW	University of the Witwatersrand	Prof Patrick Arbuthnot	To develop the use of adeno-associated viral vectors to model HBV replication in cell culture and in vivo	18/74	PRF Limani 18/74
Litabe Miss M	University of the Free State	Prof F Burt	Characterization and comparison of the innate immune response induced by arthritogenic alphavirus infection and its role in chronic arthritis	20/33	PRF Litabe 20/33
Loubser Miss C	University of the Witwatersrand	Prof Natalya V. Nikitina	A cost-effective system for production of broadly neutralizing antibodies for HIV-1 prevention	18/96	PRE Loubser 18/96
Mabasa Mr VV	University of Pretoria	Dr Janet Mans	Genetic diversity and viability of human norovirus strains detected in selected wastewater samples from Tshwane district, South Africa	20/34	PRF Mabasa 20/34
Mabilo Mr P	University of the Witwatersrand	Dr Florette Treurnicht	Expression and characterisation of F proteins from South African respiratory syncytial virus (RSV) strains, 2019-2020	20/49	PRF Mabilo 20/49
Macintyre Ms C	University of Pretoria	Professor Marietjie Venter	Investigation of the molecular epidemiology of West Nile Virus at the human animal interface in South Africa	19/50	PRF Macintyre 19/50

Makhetha Mr RH	University of the Free State	F Burt, A Bester, M Nyaga	Multiplex PCR for tick borne viruses	20/04	PRF Makhetha 20/04
Makoti Miss P	University of the Western Cape	Prof Burtram Fielding	Production of cytokines in whole blood cultures after exposure to the nucleocapsid protein of human coronavirus NL63 and SARS coronaviruses	19/76	PRF Makoti 19/76
Malan Ms AJ	University of Pretoria	Prof Louis Nel	Investigating the interface of sylvatic and dog rabies in southern Africa	20/14	PRF Malan 20/14
Mangwane Miss K	Sefako Makgatho Health Sciences University	Dr OE Simani	Molecular characterization of the pre-surface and surface genes of hepatitis B virus infected patients attending Dr George Mukhari Academic Hospital, Pretoria in 2016 to 2018	40/42	PRF Mangwane 20/42
Mannafela Mr O	University of the Witwatersrand	Ms Genevieve Mezoh	Association of HIV-1 Nef with Endothelial Dysfunction	18/85	PRF Mannafela 18/85
Maphumulo Miss NF	University of Kwa-Zulu Natal	Dr Michelle Gordon	Role of envelope in the development of Protease Inhibitors drug resistance	19/105	PRF Maphumulo 19/105
Maringa Miss WM	University of the Free State	Dr. Martin Nyaga	Analysis of post-vaccine rare and/or reassortant rotavirus strains from Zambia	19/95	PRF Maringa 19/95
Martins Mr MF	Univ of Pretoria	Prof Jacques Theron	Identification of the cysteine residues involved in the formation of the NS1 tubules of African horse sickness virus	18/84	PRF Martins 18/84
Mashamba Miss TP	Sefako Makgatho Health Sciences University	No supervisor or supervisor support - have requested	Evaluation of the Becton Dickonson Onclarity HPV Assay in endocervical samples of women attending gynaecology clinic at Dr George Mukhari Academic Hospital, using the Abbott RealTime High-Risk HPV Assay as the gold standard	20/41	PRF Mashamba 20/41
Mashigo Ms T	Sefako Makgatho Health Sciences University	Dr R Mafuyeka	Investigation of mutations associated with resistance to integrase strand transfer inhibitors in specimens sent to Dr George Mukhari Academic Hospital Department of Virology for human immunodeficiency virus drug resistance testing in 2019	20/42	PRF Mashigo 20/42
Masoto Miss NZ	University of the Free State	F Burt, A Bester, M Nyaga	Multiplex RT-PCR for mosquito-borne viruses	20/05	PRF Masoto 20/05
Mbhele Miss N	University of KwaZulu-Natal	Dr Michelle Gordon	HIV-1 integrase inhibitor mutations: Analysis of structural and biochemical effects	18/97	PRF Mbhele 18/97
Mkhize Miss Z	University of Kwa-Zulu Natal	Dr Paradise Madlala	Effect of human immunodeficiency virus type 1 (HIV-1) subtype C transmitted/founder (T/F) viruses Transactivator of transcription (Tat) variation on nuclear levels of active positive transcription elongation factor b (P-TEFb) and viral latency	19/77	PRF Mkhize 19/77
Mkhombo Miss N	University of Cape Town	Prof Janet Hapgood	Regulation of estrogen levels by the hormonal contraceptive medroxyprogesterone acetate (MPA) and norethisterone acetate (NET) and effects of HIV pathogenesis	20/35	PRF Mkhombo 20/35
Mlimi Miss H	University of KwaZulu-Natal	Dr Paradise Madlala	Bone marrow stromal antigen 2 (BST-2) expression profile may modulate antibody-dependent cell-mediated cytotoxicity (ADCC) in HIV-1 infection	19/53	PRF Mlimi 19/53
Mndzebele Miss TP	University of Cape Town	Melissa-Rose Abrahams	Broadly Neutralizing Antibody Sensitivity of Replication-Competent HIV-1 from the Latent Reservoir of ART-Treated Individuals	19/54	PRF Mndzebele 19/54
Mntambo Miss N	University of Kwa-Zulu Natal	Dr P Gumbi	Investigation of intravaginal practices as a factor associated with high prevalence of genital human papillomavirus infection in adolescent girls	20/15	PRF Mntambo 20/15
Mnyandu Mr N	Univ of the Witwatersrand	Dr Betty Maepa	Efficacy of a synthetic Adeno associated expressing anti-hepatitis B virus primary-microRNAs from a liver-specific promoter	17/83	PRF Mnyandu 17/83

Moahla Mr B	University of the Witwatersrand	Mark Killick	mRNA-mediated in vivo expression of HIV-1 bispecific antibodies for passive immunization strategies	20/16	PRF Moahla 20/16
Mogotsi Mr MT	University of the Free State	Dr Martin Nyaga	Metagenomic analysis and characterization of the enteric virome of children from South Africa and Kenya	19/106	PRF Mogotsi 19/106
Moloi Mr I	University of the Witwatersrand	Genevieve Mezoh	Proteomic analysis of the impact of HIV-1 Nef H40Y mutation on Endothelial cells	20/17	PRF Moloi 20/17
Moodie Miss M	University of the Witwatersrand	Prof Maria Papathanasopoulos and Dr Mark Killick	Antigenicity and Immunogenicity of recombinant glycoproteins for prevention of congenital Human cytomegalovirus (HCMV) disease	19/78	PRF Moodie 19/78
Moshoette Mr T	University of the Witwatersrand	Dr Mark Killick, and Prof M Papathanasopoulos	Engineering bispecific antibodies targeting HIV-1 subtype C	18/75	PRF Moshoette 18/75
Motsoeneng Miss B	National Institute for Communicable Diseases	Prof Penny L Moore, Dr Simone I Richardson	Functional and genetic characteristics of hemagglutinin stalk antibodies induced by influenza vaccination and infection	20/36	PRF Motsoeneng 20/36
Mpazi Miss N	University of Stellenbosch	Dr. Nokwazi Nkosi	Characterising cytomegalovirus (CMV) glycoprotein B (gB) genotypes from clinical samples at Tygerberg Hospital Virology Laboratory	20/06	PRF Mpazi 20/06
Mthembu Miss KP	University of KwaZulu-Natal	Dr Paradise Madlala	Molecular and genetic characterization of natural human immunodeficiency virus type (HIV-1) subtype C exon-1 variants from tuberculous meningitis (TBM) co-infected patients.	19/55	PRF Mthembu 19/55
Mthethwa Miss LDC	University of Kwa-Zulu Natal	Prof Raveen Parboosing	MicroRNA profile in Hepatitis B Virus (HBV)-HIV co-infected patients	20/18	PRF Mthethwa 20/18
Mudau Mr I	University of Cape Town	Prof. Carolyn Williamson	Screening for minority populations of broadly neutralizing antibody (bNAbs)-resistant viruses in HIV-1 infection	20/19	PRF Mudau 20/19
Mulondo Mr G	University of Cape Town	A/Prof Inga Hitzeroth	Use of Quail-produced antibodies for purification of virus-like particles produced in plants	20/52	PRF Mulondo 20/52
Musaigwa Mr F	University of Cape Town	Dr Justin Komgwap Nono	Implementation of Polio Endgame Strategic Plan: Assessing the Effects of Schistosomiasis on Inactivated Polio Vaccine-based vaccination. (Currently conducted with reagent support for the PRF-funded project KOMGUEP 18/19 of the same title)	20/53	PRF Musaigwa 20/53
Musasira Ms NY	University of Kwa-Zulu Natal	Dr Michelle Gordon	Implications of HIV-1 subtype C RNase H mutations on Reverse transcriptase activity and structure	19/79	PRF Musasira 19/79
Mwangi Mr P	University of the Free State	Dr Martin Nyaga	Molecular characterization and evolutionary dynamics of rotavirus strains from pre- and post-vaccinated children collected in three African countries	18/76	PRF Mwangi 18/76
Naicker Mr MD	University of Kwa-Zulu Natal	Dr. Jaclyn Mann	The role of SERINC5 down-regulation on HIV-1 disease progression	20/20	PRF Naicker 20/20
Ndaba Miss SC	North-West University	Dr L Ngoma	Molecular characterization of Newcastle and Avian Influenza Among free ranged chickens and guinea fowl in Ngaka Modiri Molema District Municipality	20/50	PRF Ndaba 20/50
Ndlovu Mr B	University of Cape Town	Prof Inga Hitzeroth	Replicating plant viral expression vector development and testing, for viral disease diagnostics and vaccine antigen production in plants.	19/80	PRF Ndlovu 19/80
Nesamari Miss R	University of Cape Town	Prof Wendy Burgers	Examining the effect of HIV infection on fungal immunity	18/77	PRF Nesamari 18/77

Ngcobo Miss SB	CAPRISA / KZN	Dr Sinaye Ngcapu	Immunological characteristics associated with vaginal insertion products in adolescent and adult women at risk of HIV infection	20/37	PRF Ngcobo 20/37
Ngema Miss NT	University of KwaZulu Natal	Prof Zara Ndhlovu	Phenotype, location and transcriptional profile of CD8+ T cells in the lymphoid tissues	20/54	PRF Ngema 20/54
Ngobeni Mr T	University of Stellenbosch	Dr Corena de Beer	Genotyping Human Parvovirus B19 in cases of Sudden and Unexpected Death in Infancy (SUDI) at the Tygerberg Medico-Legal Mortuary and investigating the association with myocarditis	20/21	PRF Ngobeni 20/21
Nkone Ms P	University of Pretoria	Dr Sim Mayaphi	Molecular evolution of the HIV-1 polymerase gene in sample pairs of participants with early or chronic HIV-1 infection	20/22	PRF Nkone 20/22
Ntshangase Miss WS	University of KwaZulu-Natal	Dr Paradise Madlala	Central nervous system (CNS) derived human immunodeficiency virus type 1 (HIV-1) subtype C long terminal repeat (LTR) genetic variation may modulate high viral replication in the CNS of tuberculous meningitis (TBM)	20/23	PRF Ntshangase 20/23
Ntshangase Ms NN	University of KwaZulu-Natal	Bongiwe Ndlovu	Extensive epitope mapping and sequencing of HIV-1 Env on Broad Neutralizers	19/58	PRF Ntshangase 19/58
Nxele Miss N	University of KwaZulu-Natal	Prof Willem Sturm / Phillip Goulder	Mechanism of action of broadly neutralizing monoclonal antibodies in mother-to-child transmission of Human Immunodeficiency Virus	18/98	PRF Nxele 18/98
Ogunbayo Mr AE	University of the Free State	Dr Martin Nyaga	Viral metagenomics of respiratory samples from symptomatic and asymptomatic children from the Free State Province, South Africa	19/81	PRF Ogunbayo 19/81
Palm Mr PJ	University of Pretoria	Prof Marietjie Venter	Establishing a next-generation sequencing and bioinformatics pipeline for Shuni Virus and related diseases causing acute febrile disease of unknown origin	20/07	PRF Palm 20/07
Phalane Mr EUM	University of the Witwatersrand	Dr Melinda Suchard	Full genome molecular characterization of human vaccine-derived poliovirus (VDPV) cases in South Africa: Period 2011 - 2019	20/43	PRF Phalane 20/43
Phetla Mr PE	Sefako Makgatho Health Sciences University	Prof Mapaseka Seheri	Norovirus infection in children less than 5 years of age attending the Dr George Mukhari Academic Hospital before and after rotavirus vaccine introduction into the Expanded Programme on Immunisation of South Africa	19/59	PRF Phetla 19/59
Phohlo Mr K	University of Cape Town	Prof Jo-Ann Passmore	Association between vitamin D deficiency and the susceptibility of Human Papillomavirus (HPV) infection in young South African Women	19/60	PRF Phohlo 19/60
Pretorius Ms SA	University of Pretoria	Prof Jacques Theron	An investigation into the role of two integrin recognition sequences in African horse sickness virus VP5 in mediating cell adhesion in insect cells	20/24	PRF Pretorius 20/24
Rademan Ms R	University of Pretoria	Professor Wanda Markotter	Detection and characterization of Influenza virus A in the Egyptian fruit bat ( <i>Rousettus aegyptiacus</i> ) in Limpopo, South Africa	19/61	PRF Rademan 19/61
Rakaki Ms ME	University of Pretoria	Prof Marietjie Venter	Pathogenesis and Immune response to Shuni virus strains in Africa	20/38	PRF Rakaki 20/38
Ramabula Miss S	University of Pretoria	Dr Helen C Steel	Exploring systemic bio-markers of mitochondrial toxicity in HIV-infected patients in South Africa	19/62	PRF Ramabula 19/62
Rasebotsa Miss SP	University of the Free State	Dr Martin Nyaga	Genomic comparison of rotavirus whole genome constellations for pre- and post-vaccination by Rotarix® and RotaTeq® vaccines in the immunization programme of Zambia and Rwanda, respectively	19/63	PRF Rasebotsa 19/63
Ryder Ms MA	University of Pretoria	Prof Michael S. Pepper	Generation of infectious, replication competent CCR5-, CXCR4- and dual-tropic HIV 1C molecular clones from South Africa as a powerful molecular research tool for HIV-1 subtype diversity research	20/25	PRF Ryder 20/25

Salimo Mrs AT	Sefako Makgatho Health Sciences University	Prof Gloria Selabe	Investigation of hepatitis B virus surface gene (S) mutations, immune complex dissociation, and antibody avidity in hepatitis B virus occult and chronic infection	20/39	PRF Salimo 20/39
Sander Mr WJ	University of the Free State	Prof HG O'Neill	Investigating the role and mechanism of the inflammatory eicosanoid, prostaglandin E2, during rotavirus infection	19/82	PRF Sander 19/82
Savhasa Miss F	Sefako Makgatho Health Sciences University	Dr Cliff Abdul Magwira	Investigation of enteric viral agents of acute gastroenteritis in paediatric stool samples collected during the pre and post rotavirus vaccine introduction eras in South Africa	20/26	PRF Savhasa 20/26
Sayimane Mr T	University of the Witwatersrand	Ms Genevieve Mezoh	Functional characterisation of HIV-1 nef Polymorphisms on Endothelial Cells	18/83	PRF Sayimane 18/83
Schoeman Mr D	University of the Western Cape	Prof Burtram Fielding	The formation of virus-like particles (VLPs): characterisation of post-translational processing of the human (H) coronavirus (CoV)-NL63 nucleocapsid (N) protein and its role in viral replication	17/53	PRF Schoeman 17/53
Sekee Mr TR	University of the Free State	Prof Felicity Burt	Ecology of flaviviruses	19/83	PRF Sekee 19/83
Serakge Mr T	University of Cape Town	Prof. Anna-Lise Williamson	Modification of HIV-1 subtype C mosaic Envelope sequences to improve levels, structure and immunogenicity	19/97	PRF Serakge 19/97
Serobe Miss MS	University of Pretoria	Prof Theresa Rossouw	Comparison of the stool microbiome and markers of microbial translocation of HIV-infected and –uninfected mothers and their infants	19/98	PRF Serobe 19/98
Setlhare Miss B	University of KwaZulu Natal	Mlungisi Ngcobo	In vitro effects of South African traditional medicine on immune milieu and HIV replication capacity	20/55	PRF Setlhare 20/55
Sevenster Mr D	University of the Witwatersrand	Dr Gavin Owen	The crystallisation and structure determination of HIV-1 gp120FVCExC and the immunogenic gp120FVCExC -2dCD4 covalent complex	19/64	PRF Sevenster 19/64
Sibiya Mr T	University of KwaZulu-Natal	Prof Anton Chuturgoon	The effect of naturally occurring phenolic compounds, Mangiferin and Isosakuranetin, on the effects of anti-retrovira; drug in human liver HepG2 cells	20/40	PRF Sibiya 20/40
Singh Miss P	University of the Witwatersrand	Abdullah Ely	Targeted transcriptional silencing of hepatitis B using designer epigenome modifiers expressed as mRNA	18/100	PRF Singh 18/100
Sirkisson Miss S	University of KwaZulu-Natal	Dr Katlego Sojane	The biological phenotype of HIV-1 C in individuals with cryptococcal meningitis	20/27	PRF Sirkisson 20/27
Smit Ms O	University of Pretoria	Dr Azwidowi Lukhwari	Early infant HIV diagnosis and characterization of HIV drug resistance in Gauteng, South Africa	19/99	PRF Smit 19/99
Smith Miss T	University of the Witwatersrand	Prof Patrick Arbuthnot	Inhibiting Hepatitis virus replication with the use of anti-HBV TALEN mRNA-containing lipoplexes	19/84	PRF Smith 19/84
Spencer Ms H	National Institute for Communicable Diseases	Dr Cathrine Scheepers, Dr Simone Richardson and Prof Penny Moore	Functional impact of IGHG3 Genetic Variation in HIV-1 Infection	20/28	PRF Spencer 20/28
Sutherland Mr AD	University of Stellenbosch	Dr Tongai Maponga	Molecular characterization of Occult Hepatitis B virus among blood donors from the Western Cape. South Africa	20/08	PRF Sutherland 20/08
Thuynsma Miss C	University of the Free State	Prof Felicity Burt	Genetic analysis of HPV type 11 isolates from patients with recurrent respiratory papillomatosis in South Africa	19/65	PRF Thuynsma 19/65

Tiiti Miss T	Sefako Makgatho Health Sciences Univ	Dr RL Lebelo	HPV testing using self-collected versus doctor-collected cervical samples for cervical cancer screening and the acceptance of women towards self-sampling	18/101	PRF Tiiti 18/101
Van der Mescht Miss MA	University of Pretoria	Prof Theresa Rossouw	Immunological profiles of HIV-infected and uninfected patients admitted with COVID-19 to Steve Biko Academic Hospital	20/56	PRF VDMescht 20/56
Van Der Walt Ms M	University of Pretoria	Prof Marietjie Venter	Investigating the contribution of Orthobunyaviruses in humans and animals with unsolved febrile and neurological disease in South Africa	20/29	PRF VDWalt 20/29
Visser Mr C	University of the Free State	Prof Robert R. Bragg	Development of recombinant antibody fragments for the treatment of Newcastle Disease Virus in poultry	20/09	PRF Visser 20/09
Visser Mr M	North West University	Prof Albie van Dijk	Improving the efficacy of rotavirus SA11 plasmid-only reverse genetics systems through rationalised changes in the 5'UTR of GS7, using fluorescent proteins and the generation of chimeric viruses	18/93	PRF Visser 18/93
Whittle Miss L	University of Cape Town	Dr Ros Chapman	Development of a dual vaccine against East Coast fever (ECF) and lumpy skin disease (LSD)	19/85	PRF Whittle 19/85
Wiid Mr S	University of the Free State	Prof Felicity Burt	Development of molecular and serological assays for orthobunyaviruses and orthonairoviruses	19/67	PRF Wiid 19/67
Zungu Miss APS	University of KwaZulu-Natal	Dr Bongive Ndlovu	Evolution of Strain-specific neutralizing antibody responses in HIV-1 subtype C infected individuals that developed broadly neutralizing antibodies	19/68	PRF Zungu 19/68

## 2021 AWARD LIST

### FEBRUARY 2021

APPLICANT	INSTITUTE	PURPOSE	GRANT NO	PAYMENT REFERENCE
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### MAJOR IMPACT PROJECT

Burgers Prof WA	University of Cape Town	Post-vaccine immune surveillance of healthcare workers receiving SARS-CoV-2 vaccines	21/65	PRF Burgers 21/65
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### RESEARCH GRANT

Bloom Dr K	University of the Witwatersrand	The development of a Hepatitis B virus RNA vaccination strategy for enhanced prophylactic and therapeutic immunisation	18/01	PRF Bloom 18/01
Dias Dr B	National Institute for Communicable Diseases	Characterization of peripheral T follicular helper cell (pTfh) and memory B-cell profiles in South African individuals with varying phenotypes of natural HIV-1 control	18/05	PRF Dias 18/05

Edkins Prof AL	Rhodes University	Host-viral interactions in KSHV-related malignancies– evaluating the role of STIP1 as a therapeutic target in KSHV lytic replication	18/06	PRF Edkins 18/06
Glashoff Dr R	Stellenbosch University	Characterisation of follicular T helpers (Tfh) cells in HIV-infected early treated and HIV-exposed uninfected children: relationship to immune activation and B cell subset dynamics	18/07	PRF Glashoff 18/07
Hitzeroth Dr I	University of Cape Town	Development of a plant-made diagnostic immunoassay for the detection of porcine circovirus antibodies in South African swine herds	18/08	PRF Hitzeroth 18/08
Kitchin Dr D	National Institute for Communicable Diseases	Delineating the ontogeny of a V3-glycan specific HIV-1 broadly neutralizing antibody lineage in participant CAP255	18/10	PRF Kitchin 18/10
Loubser Dr S	National Institute for Communicable Diseases	<i>HLA class II DRB1, -DPB1 and -DQB1</i> genotyping of healthy controls, HIV-positive controllers and progressors from the South African Black population	18/11	PRF Loubser 18/11
Moyo Dr T	National Institute for Communicable Diseases	Structural characterization of co-evolving neutralizing antibody lineages from an HIV-1-infected donor	18/14	PRF Moyo 18/14
Mzobe Dr G	University of KwaZulu-Natal (CAPRISA)	Use of an <i>ex vivo</i> human cervical explant model to explore the HIV prevention capabilities of CAP256-VRC26.25 alone and in combination with VRC07 or PGT121	18/16	PRF Mzobe 18/16
Nono Komgweo Dr J	University of Cape Town	Implementation of Polio Endgame Strategic Plan: Assessing the Effects of Schistosomiasis on IPV-based vaccination	18/19	PRF Komgweo 18/19
Schafer Dr G	University of Cape Town	Characterisation of host cellular molecules modulating HPV entry mechanisms	18/21	PRF Schafer 18/21
Schramm Dr D	National Institute for Communicable Diseases	Antibody responses in HIV-1 infected early treated children using a multiplex bead-based immunoassay	18/22	PRF Schramm 18/22
Van Zyl Dr WB	University of Pretoria	Molecular detection and genotyping of human adenoviruses from clinical and environmental samples	18/25	PRF Van Zyl 18/25
Avenant Dr C	University of Cape Town	Contraception and HIV-1 infection in women	19/02	PRF Avenant 19/02
Chapman Dr S	University of Cape Town	Development of virus-like particle vaccines for HIV expressing different glycoproteins	19/03	PRF Chapman 19/03
Chigorimbo-Tsikiwa Dr N	University of Cape Town	Development of an HIV infection model of human foreskin to obtain novel insights into virus transmission	19/04	PRF Chigorimbo 19/04
Durandt Dr C	University of Pretoria	Correlation of haematopoiesis-associated cytokine plasma levels with presence and severity of hematological abnormalities observed in a treatment-naïve, HIV-positive cohort	19/08	PRF Durandt 19/08
Geldenhuis Dr M	University of Pretoria	Detection of zoonotic respiratory viruses present in the Egyptian rousette bat	19/09	PRF Geldenhuis 19/09



Gumbi Dr P	University of KwaZulu-Natal	Investigating genital human papillomavirus (HPV) prevalence and susceptibility in adolescent girls using intravaginal products	19/10	PRF Gumbi 19/10
Hurdayal Dr R	University of Cape Town	Investigating immunological and pathological host responses in a novel HIV-visceral Leishmania co-infection using a rhesus macaque model	19/12	PRF Hurdayal 19/12
Moolla Dr N	National Institute for Communicable Diseases	Evaluation of the minION, long-range DNA sequencing platform as a diagnostic screening tool for suspected viral haemorrhagic fever cases	19/13	PRF Moolla 19/13
Ngcobo Dr M	University of KwaZulu-Natal	In vitro effects of South African traditional medicine on immune milieu and HIV replication capacity	19/15	PRF Ngcobo 19/15
Nyaga Dr M	University of the Free State	A next generation sequencing-based molecular characterization of the respiratory tract virome of children from Free State Province, South Africa	19/16	PRF Nyaga 19/16
O'Neill Prof HG	University of the Free State	The role and mechanism of the inflammatory eicosanoid, prostaglandin E2, during rotavirus infection	19/17	PRF O'Neill 19/17
Prabdial-Sing Dr N	National Institute for Communicable Diseases	Hepatitis B viral epidemiology amongst key populations	19/19	PRF Prabdial-Sing 19/19
Richardson Dr SI	National Institute for Communicable Diseases	The Role of IgG3 in Enhancing Functional Activity of HIV-1 Broadly Neutralizing Antibodies	19/20	PRF Richardson 19/20
Rybicki Prof EP	University of Cape Town	The production of "One Health"-relevant low-cost reagents for West Nile virus and other flaviviruses by transient expression in plants	19/21	PRF Rybicki 19/21
Smith Dr KA	University of Cape Town	Regulation of HPV infection and cervical cancer progression following helminth infection	19/24	PRF Smith 19/24
Sojane Dr K	University of KwaZulu-Natal	Coreceptor and cellular tropism of HIV-1 subtype C in blood, lymph nodes and the central nervous system	19/25	PRF Sojane 19/25
Theron Prof J	University of Pretoria	Defining the structure-function relationships of African horse sickness virus structural protein VP7 and non-structural proteins NS1 and NS2 using a reverse genetics approach	19/26	PRF Theron 19/26
Van Staden Dr V	University of Pretoria	African horse sickness virus non-structural proteins as determinants of virulence and pathogenesis	19/28	PRF Van Staden 19/28
Mowla Dr S	University of Cape Town	Co-operation of EBV and HIV in promoting genomic instability in lymphocytes	19/14	PRF Mowla 19/14
Basson Dr AE	University of the Witwatersrand	Assessment of the <i>in vitro</i> phenotypic drug susceptibility of HIV-1 subtype C variants to Islatravir (ISL) and Doravirine (DOR)	21/66	PRF Basson 21/66
Deroubaix Dr A	University of the Witwatersrand	Analysis of the physical properties of HBV precore proteins and interactions with the host	21/67	PRF Deroubaix 21/67
Hardie Prof D	University of Cape Town	Metagenomic Sequencing for the aetiological diagnosis of Central Nervous System Infections	21/68	PRF Hardie 21/68

Hitzeroth Prof II	University of Cape Town	Development of stable SARS-CoV-2 mRNA vaccines encapsidated in tobacco mosaic virions	21/69	PRF Hitzeroth 21/69
Khan Dr A	University of KwaZulu-Natal	The role of human papillomavirus (HPV) in head and neck squamous cell carcinomas in KwaZulu-Natal, South Africa	21/70	PRF Khan 21/70
Killick Dr M	University of the Witwatersrand	mRNA-mediated delivery of anti HIV-1 bispecific antibodies as a novel preventative/therapeutic strategy	21/71	PRF Killick 21/71
Lukhwani Dr A	University of Pretoria	Characterization of HIV drug resistance strains from infants at early HIV infant diagnosis	21/72	PRF Lukhwani 21/72
Mafuyeka Dr RT	University of Pretoria	Molecular characterization of HIV in patients initiating or failing on a dolutegravir-based antiretroviral regimen	21/73	PRF Mafuyeka 21/73
Mans Prof J	University of Pretoria	Environmental surveillance for norovirus and hepatitis E virus in South Africa	21/74	PRF Mans 21/74
Mbewana Dr S	University of Cape Town	Development of universal Influenza A vaccine candidates in <i>Nicotiana benthamiana</i>	21/75	PRF Mbewana 21/75
Mkhwanazi Dr NP	University of KwaZulu-Natal	Profiling novel secondary metabolites produced by fungal endophytes associated with medicinal plants for use as anti-HIV compounds	21/76	PRF Mkhwanazi 21/76
Mwangi Dr PN	University of the Free State	Whole-genome analyses of rotavirus strains from the WHO/AFRO rotavirus network	21/77	PRF Mwangi 21/77
Nadan Dr S	National Institute for Communicable Diseases	Development and evaluation of genotyping primers for characterisation of human astroviruses	21/78	PRF Nadan 21/78
Preiser Prof W	University of Stellenbosch	Serological testing to detect SARS-CoV-2 antibodies	21/79	PRF Preiser 21/79
Preiser Prof W	University of Stellenbosch	Implementation, evaluation and use of screening methods to identify SARS-COV 2 genetic variants of significance	21/80	PRF Preiser 21/80
Preiser Prof W	University of Stellenbosch	In vitro and in vivo characterisation of SARS-CoV-2 variant 501Y.V2 properties: growth kinetics, viral shedding, and response to convalescent and vaccine sera	21/81	PRF Preiser 21/81
Redelinghuys Dr M	National Institute for Communicable Diseases (WHC)	The transcriptome of peripheral neutrophils in hospitalized COVID-19 black South African patients	21/82	PRF Redelinghuys 21/82
Selabe Prof GS	Sefako Makgatho Health Sciences University	Molecular characterization of occult Hepatitis B virus infections in high risk populations residing in the North West of Pretoria	21/83	PRF Selabe 21/83
Tipih Dr T	University of the Free State	Serological and molecular detection of orthohantaviruses in South Africa	21/84	PRF Tipih 21/84
Valley-Omar Dr Z	University of Cape Town	Human leukocyte antigen (HLA) genotype and COVID-19 severity associations	21/85	PRF Valley-Omar 21/85

Van Zyl Dr AR	University of Cape Town	Papillomavirus (PV) Pseudovirions (PsVs) as Therapeutic Vaccines	21/86	PRF Van Zyl 21/86
Van Zyl Prof G	University of Stellenbosch	The role of underdiagnosed viruses in neonatal sepsis syndrome	21/87	PRF Van Zyl 21/87
Wibmer Dr CK	National Institute for Communicable Diseases (WHC)	Pilot study: Novel recombinant snakebite antivenom as a potential pan-Lyssavirus therapeutic	21/88	PRF Wibmer 21/88

BURSARY GRANT					
Bell Mr JG	University of Pretoria	Dr Naazneen Moolla	Development of a recombinant antigen-based Indirect Immunofluorescence assay for the diagnosis of Lassa fever	19/43	PRF Bell 19/43
Adimulam Mr T	University of KwaZulu-Natal	Dr. Veron Ramsuran	Evaluating the effect of specific microRNAs on HIV disease progression using a Black South African cohort	21/49	PRF Adimulam 21/49
Alberts Ms J	Stellenbosch University	Dr Nokwazi Nkosi	A conventional reverse transcriptase PCR method to detect Hepatitis A virus RNA in clinical samples of patients with suspected acute HAV infection	21/01	PRF Alberts 21/01
Belter Miss B	University of the Free State	Professor Robert R Bragg	The expression and purification of SARS-CoV-2 and variant 501.V2 spike and nucleoprotein proteins in <i>Yarrowia lipolytica</i>	21/24	PRF Belter 21/24
Bhengu Miss SP	University of Kwa-Zulu Natal	Dr Paradise Madlala	Functional characterization of human immunodeficiency virus type 1 subtype C (HIV-1C) transmitted/founder (T/F) viruses long terminal repeat (LTR) variants and associated with disease outcome	20/10	PRF Bhengu 20/10
Blose Miss M	University of Witwatersrand	Prof Jeffrey Dorfman	Effect of HIV-1 Exposure and HIV-1 Infection on Persistence of Immunity against Vaccine Preventable Diseases	21/50	PRF Blose 21/50
Boughan Miss S	University of Pretoria	Dr Vida van Staden	Functional role of African horse sickness virus non-structural protein NS4 in the nucleus	19/72	PRF Boughan 19/72
Brown Mr K	University of the Western Cape	Dr. Ruben Cloete	Automated computational workflow to prioritize potential resistance variants identified in HIV Integrase Subtype C and CRF02_AG	21/25	PRF Brown 21/25
Burmeister Miss C	University of Cape Town	Professor Sharon Prince	Investigation into the co-operation between the human papillomavirus oncoproteins E6/E7 with the oncogenic TBX3 transcription factor to promote cervical cancer	21/26	PRF Burmeister 21/26
Buyens Miss A	University of Pretoria	Prof Jacques Theron	Delineating the functional importance of RGD and WHAL motifs present in the VP7 protein of African Horse Sickness Virus	18/81	PRF Buyens 18/81
Chineka Miss AN	University of Cape Town	Profs Anna-Lise Williamson ; Ros Chapman	Construction of a dual vaccine against lumpy skin disease virus and bovine coronavirus	21/27	PRF Chineka 21/27
Coertzen Ms C	University of Pretoria	Prof Vida van Staden	Characterisation and expression of ORF2 in genome segment 10 of African horse sickness virus	21/28	PRF Coertzen 21/28

Delaney Miss KE	University of Stellenbosch	Prof Gert van Zyl	Characterizing HIV reservoirs and evolution with a novel third generation single genome sequencing approach	21/51	PRF Delaney 21/51
Dimaculangan Miss M	University of the Free State	Prof Felicity Burt	Development of molecular assays for the detection of mosquito-borne alphaviruses in South Africa	19/46	PRF Dimaculangan 19/46
Edwards Ms AR	University of Cape Town	Alta van Zyl / Prof Inga Hitzeroth	Production of a bovine papillomavirus type 1 (BPV-1) vaccine candidate in plants and use of BPV-1 virus-like particles (VLPs) as a gene delivery vehicle for gene therapy	19/91	PRF Edwards 19/91
Fourie Miss C	University of the Free State	Prof HG O'Neill	The effect of glycosylation on the secreted production of rotavirus VP6 by various yeast species as subunit vaccine candidate	21/54	PRF Fourie 21/54
Gilbert Ndeh DOH	University of Stellenbosch	Micheline Sanderson	High-risk HPV genotypes among HIV negative and positive women in Cameroon with cervical intraepithelial neoplasia and invasive carcinoma of the cervix: prevalence, histopathology and biomarker expression	21/52	PRF Gilbert 21/52
Gopee Miss K	University of KwaZulu-Natal	Paradise Madlala	<i>Ex vivo</i> response to latency reversing agents (LRAs) of the transmitted/founder (T/F) viruses long terminal repeat (LTR) derived from blood of HIV-1 Infected patients on combination antiretroviral therapy (cART)	21/29	PRF Gopee 21/29
Haindongo Miss NG	Sefako Makgatho Health Sciences University	Dr Cliff A. Magwira	Comparative evaluation of two multiplex real time RT-PCR assay kits for detection of gastroenteritis-causing viruses in fecal samples	21/02	PRF Haindongo 21/02
Hlatshwayo Mr VN	University of the Witwatersrand and National Institute for Communicable Diseases (WHC)	Prof Penny Moore	Defining the development of gp120-gp41 interface directed broadly neutralizing antibodies in HIV-1 infection	19/74	PRF Hlatshwayo 19/74
Hlongwane Miss K	North West University	Prof Albie van Dijk	Rational design of rotavirus NSP1 and NSP4 to improve the safety profile of rotavirus vaccine candidates	21/30	PRF Hlongwane 21/30
Hlophe Ms CM	Sefako Makgatho Health Sciences University	Vanessa Moodley	The morphological, immunophenotypic and cytogenetic features in human immunodeficiency virus infected patients	21/31	PRF Hlophe 21/31
Hurree Miss JN	University of Cape Town	Melissa- Rose Abrahams	Droplet Digital PCR Detection and Next-Generation Sequencing of HIV-1 in Breast Milk of Breast-Feeding Women on Antiretroviral Treatment	21/32	PRF Hurree 21/32
Huyzers Mr MGJ	North-West University Potchefstroom campus	Prof AA van Dijk	Investigation of the role of the viral polymerase (VP1) and viroplasm associated protein (NSP5) in restricting reassortment in rescued rotaviruses	21/53	PRF Huyzers 21/53
Isaacs Mr AR	University of Cape Town	Prof Ed Rybicki	Engineering the plant secretory pathway for the production of vaccines and diagnostic tools for Lujo virus	19/93	PRF Isaacs 19/93

Jacobs Miss R	University of the Witwatersrand	Dr Betty Maepa & Prof Patrick Arbuthnot	Targeted mutation of the HBV genome using TALEN expressing adeno-associated viral vectors	19/103	PRF Jacobs 19/103
Janse Van Rensburg Ms M	University of Pretoria	Dr Walda van Zyl	The diversity of enteroviruses from cerebrospinal fluid specimens, collected from hospitalised patients in the private and public sector, in Gauteng	20/12	PRF JVRensburg 20/12
Jeewanraj Ms N	University of Kwa-Zulu Natal	Jaclyn Mann	Investigation of compartilisation of HIV-1 subtype C between lymph nodes, peripheral blood mononuclear cells and plasma	20/13	PRF Jeewanraj 20/13
Jhamba Miss LA	University of KwaZulu-Natal	Dr Kamini Gounder	Genetic characterization and neutralization of viral blips in patients following suppressive HIV antiretroviral therapy	19/94	PRF Jhamba 19/94
Kacnik Ms S	University of Pretoria	Professor Marietjie Venter	Investigation of zoonotic arboviruses in genera Phlebo- and Orthobunyavirus in the order Bunyvirales associated with mosquito vectors in the Northern parts of South Africa	21/03	PRF Kacnik 21/03
Kanyoka Mr P	University of Cape Town	Jo-Ann Passmore	Investigating the impact of concurrent and recurrent Chlamydia trachomatis infections on molecular epidemiology of Human Papilloma Virus (HPV) prevalence in adolescent and young South African women	21/55	PRF Kanyoka 21/55
Kariem Miss Z	University of Stellenbosch	Dr Corena de Beer	Attempting full genome sequencing of previously detected alphacoronaviruses using Sanger sequencing	20/45	PRF Kariem 20/45
Khan Mr SF	University of Cape Town	Professor Sharon Prince	The human papilloma viral E6/E7 oncoproteins co-operate with the oncogenic TBX3 transcription factor to promote cervical cancer cell proliferation and migration	20/31	PRF Khan 20/31
Khumalo Ms A	Sefako Makgatho Health Science University	Dr Omphile Simani	Genetic characterization of human immunodeficiency virus <i>nef</i> , <i>gag</i> , and integrase genes from second-line antiretroviral failure patients	21/33	PRF Khumalo 21/33
Kleinhans Miss N	University of Pretoria	Prof Jacques Theron	Engineering of defective infectious single cycle African horse sickness virus strains based on the inactivation of the VP4 protein	18/82	PRF Kleinhans 18/82
Litabe Miss M	University of the Free State	Prof F Burt	Characterization and comparison of the innate immune response induced by arthritogenic alphavirus infection and its role in chronic arthritis	20/33	PRF Litabe 20/33
Loubser Miss C	University of the Witwatersrand	Prof Natalya V. Nikitina	A cost-effective system for production of broadly neutralizing antibodies for HIV-1 prevention	18/96	PRF Loubser 18/96
Lourens Miss C	University of Pretoria	Prof Marietjie Venter	Establishment of serological assays to investigate the incidence of West Nile and Wesselsbron flavivirus infections in Africa	21/34	PRF Lourens 21/34
Mabasa Mr VV	University of Pretoria	Dr Janet Mans	Genetic diversity and viability of human norovirus strains detected in selected wastewater samples from Tshwane district, South Africa	20/34	PRF Mabasa 20/34
Maboho Mr KK	University of the Free State	Dr Nigel Makoah, Prof Felicity Burt	Expression and Purification of Crimean Congo Haemorrhagic Fever Virus (CCHFV) glycoprotein Gc	21/04	PRF Maboho 21/04

Madisha Miss N	University of Pretoria	Dr Marike Geldenhuys	Investigating spike gene mutations among Egyptian rousette HKU9-related betacoronaviruses	21/05	PRF Madisha 21/05
Mahlangu Miss TP	University of Stellenbosch	Professor Gert van Zyl	The role of underdiagnosed viruses in neonatal sepsis syndrome	21/35	PRF Mahlangu 21/35
Maikoo Miss S	University of KwaZulu-Natal	Dr. Paradise Madlala	Effect of transmitted/founder (T/F) viruses 5' Long Terminal repeat (LTR) and Transactivation of Transcription (tat) Genetic Variation on Viral Reservoir Size and Latency Reversal Potential	21/57	PRF Maikoo 21/57
Malan Ms AJ	University of Pretoria	Prof Louis Nel	Investigating the interface of sylvatic and dog rabies in southern Africa	20/14	PRF Malan 20/14
Manyana Mr S	University of KwaZulu-Natal	Dr Benjamin Chimukangara	Innovative and affordable HIV-1 drug resistance testing for resource limited settings	21/36	PRF Mahlangu 21/36
Maringa Miss WM	University of the Free State	Dr. Martin Nyaga	Analysis of post-vaccine rare and/or reassortant rotavirus strains from Zambia	19/95	PRF Maringa 19/95
Maseko Ms TG	University of KwaZulu-Natal	Aida Sivro	Natural killer cell and lymphocyte trafficking in TB/HIV coinfection	21/58	PRF Maseko 21/58
Mazibuko-Motau Mrs NY	University of KwaZulu-Natal	Sinaye Ngcapu	Longitudinal impact of BV treatment and PrEP use on vaginal microbiota in adolescent girls and young women at high risk of acquiring HIV in KwaZulu-Natal	21/59	PRF Mazibuko 21/59
Mkhize Miss Z	University of Kwa-Zulu Natal	Dr Paradise Madlala	Effect of human immunodeficiency virus type 1 (HIV-1) subtype C transmitted/founder (T/F) viruses Transactivator of transcription (Tat) variation on nuclear levels of active positive transcription elongation factor b (P-TEFb) and viral latency	19/77	PRF Mkhize 19/77
Mkhize Mr BT	University of Stellenbosch	Annabel Enoch	Hepatitis B seroprevalence and genomic epidemiology amongst first year medical students in Stellenbosch University	21/06	PRF Mkhize 21/06
Mkhombo Miss N	University of Cape Town	Prof Janet Hapgood	Regulation of estrogen levels by the hormonal contraceptive medroxyprogesterone acetate (MPA) and norethisterone acetate (NET) and effects of HIV pathogenesis	20/35	PRF Mkhombo 20/35
Mlotshwa Ms N	National Institute for Communicable Diseases	Dr Melinda Suchard	Detection of indoleamine dioxygenase expression and activity in severe respiratory illness	21/60	PRF Mlotshwa 21/60
Mngomezulu Miss SA	Sefako Makgatho Health Science University	Prof. Mapaseka L. Seheri	Investigating the epidemiology and genetic diversity of rotavirus and adenovirus genotypes involved in nosocomial infection at Dr George Mukhari Academic Hospital post rotavirus vaccine introduction in South Africa	21/37	PRF Mngomezulu 21/37
Mnisi Miss TF	University of Pretoria	Dr Azwidowi Lukhwareni	Characterization of HIV drug resistance strains from infants at early HIV infant diagnosis	21/07	PRF Mnisi 21/07

Mntambo Miss N	University of Kwa-Zulu Natal	Dr P Gumbi	Investigation of intravaginal practices as a factor associated with high prevalence of genital human papillomavirus infection in adolescent girls	20/15	PRF Mntambo 20/15
Mogotsi Mr MT	University of the Free State	Dr Martin Nyaga	Metagenomic analysis and characterization of the enteric virome of children from South Africa and Kenya	19/106	PRF Mogotsi 19/106
Mollo Miss R	University of Pretoria	Dr Marinda Mortlock-de Vries	Full-genome characterization of bat-borne rubulaviruses in Egyptian fruit bats from South Africa	21/08	PRF Mollo 21/08
Moloi Mr I	University of the Witwatersrand	Genevieve Mezoh	Proteomic analysis of the impact of HIV-1 Nef H40Y mutation on Endothelial cells	20/17	PRF Moloi 20/17
Moodie Miss M	University of the Witwatersrand	Prof Maria Papathanasopoulos and Dr Mark Killick	Antigenicity and Immunogenicity of recombinant glycoproteins for prevention of congenital Human cytomegalovirus (HCMV) disease	19/78	PRF Moodie 19/78
Moodley Miss KE	Stellenbosch University	Professor Gert Van Zyl	Solid Phase Multiplex PCR for HIV Provirus	21/09	PRF Moodley 21/09
Motsoeneng Miss B	National Institute for Communicable Diseases	Prof Penny L Moore, Dr Simone I Richardson	Functional and genetic characteristics of hemagglutinin stalk antibodies induced by influenza vaccination and infection	20/36	PRF Motsoeneng 20/36
Motsunye Miss RB	University of Pretoria	Dr Ntombenhle Gama	Investigating novel isoflavones for anti-HIV activity		
Mthembu Miss KP	University of KwaZulu-Natal	Dr Paradise Madlala	Molecular and genetic characterization of natural human immunodeficiency virus type (HIV-1) subtype C exon-1 variants from tuberculous meningitis (TBM) co-infected infected patients.	19/55	PRF Mthembu 19/55
Mthethwa Miss LDC	University of Kwa-Zulu Natal	Prof Raveen Parboosing	MicroRNA profile in Hepatitis B Virus (HBV)-HIV co-infected patients	20/18	PRF Mthethwa 20/18
Mudau Mr I	University of Cape Town	Prof. Carolyn Williamson	Screening for minority populations of broadly neutralizing antibody (bNAb)-resistant viruses in HIV-1 infection	20/19	PRF Mudau 20/19
Musasira Ms NY	University of Kwa-Zulu Natal	Dr Michelle Gordon	Implications of HIV-1 subtype C RNase H mutations on Reverse transcriptase activity and structure	19/79	PRF Musasira 19/79
Naicker Mr MD	University of Kwa-Zulu Natal	Dr. Jaclyn Mann	The role of SERINC5 down-regulation on HIV-1 disease progression	20/20	PRF Naicker 20/20
Naiker Miss V	University of the Free State	Dr Nigel Makoah, Prof Felicity Burt	Expression and purification of Crimean Congo Haemorrhagic Fever Virus (CCHFV) glycoprotein Gn	21/10	PRF Naiker 21/10
Ndlovu Mr B	University of Cape Town	Prof Inga Hitzeroth	Replicating plant viral expression vector development and testing, for viral disease diagnostics and vaccine antigen production in plants.	19/80	PRF Ndlovu 19/80
Nel Ms C	University of Pretoria	Prof. Wanda Markotter	Evaluation and Development of a rapid molecular diagnostic tests for rabies	21/11	PRF Nel 21/11

Nel Ms N	University of Cape Town	Dr Ann Meyers	Development of stable SARS-CoV-2 mRNA vaccines encapsidated in tobacco mosaic virions	21/61	PRF Nel 21/61
Nel V Mr	University of Pretoria	Prof Vida van Staden	Investigating the nuclear import/export signals in non-structural protein NS4 of African horse sickness virus	21/12	PRF Nel 21/12
Ngcobo Miss SB	CAPRISA / KZN	Dr Sinaye Ngcapu	Immunological characteristics associated with vaginal insertion products in adolescent and adult women at risk of HIV infection	20/37	PRF Ngcobo 20/37
Ngobeni Mr T	University of Stellenbosch	Dr Corena de Beer	Genotyping Human Parvovirus B19 in cases of Sudden and Unexpected Death in Infancy (SUDI) at the Tygerberg Medico-Legal Mortuary and investigating the association with myocarditis	20/21	PRF Ngobeni 20/21
Nkone Ms P	University of Pretoria	Dr Sim Mayaphi	Molecular evolution of the HIV-1 polymerase gene in sample pairs of participants with early or chronic HIV-1 infection	20/22	PRF Nkone 20/22
Nortje Ms S	University of Stellenbosch	Dr Corena de Beer	Investigating viral meningitis in sudden and unexpected death in infancy (SUDI) cases at the Tygerberg Medico-legal Mortuary, Cape Town	21/38	PRF Nortje 21/38
Ntshangase Miss WS	University of Kwa-Zulu Natal	Dr Paradise Madlala	Central nervous system (CNS) derived human immunodeficiency virus type 1 (HIV-a) subtype C long terminal repeat (LTR) genetic variation may modulate high viral replication in the CNS of tuberculous meningitis (TBM)	20/23	PRF Ntshangase 20/23
Ntshangase Ms NN	University of KwaZulu-Natal	Bongiwe Ndlovu	Extensive epitope mapping and sequencing of HIV-1 Env on Broad Neutralizers	19/58	PRF Ntshangase 19/58
Nxele Miss N	University of KwaZulu-Natal	Prof Willem Sturm / Phillip Goulder	Mechanism of action of broadly neutralizing monoclonal antibodies in mother-to-child transmission of Human Immunodeficiency Virus	18/98	PRF Nxele 18/98
Nyakubaya Mr TD	University of Stellenbosch	Professor Gert van Zyl	Investigating HIV-1 DNA drug resistance in dried blood spots using next generation sequencing	21/39	PRF Nyakubaya 21/39
Ogunbayo Mr AE	University of the Free State	Dr Martin Nyaga	Viral metagenomics of respiratory samples from symptomatic and asymptomatic children from the Free State Province, South Africa	19/81	PRF Ogunbayo 19/81
Phadu Miss KK	University of Stellenbosch	Prof. Wolfgang Preiser	Implementation, evaluation and use of screening methods to identify SARS-COV2 genetic variants of significance	21/40	PRF Phadu 21/40
Pillay Mr M	University of KwaZulu-Natal	Dr Benjamin Chimukangara	Investigating the clinical significance of low abundance HIV-1 drug resistant variants on ART outcomes in people receiving 1st-line ART in KwaZulu-Natal	21/62	PRF Pillay 21/62
Pretorius Ms SA	University of Pretoria	Prof Jacques Theron	An investigation into the role of two integrin recognition sequences in African horse sickness virus VP5 in mediating cell adhesion in insect cells	20/24	PRF Pretorius 20/24
Qulu Mr W	University of Kwa-Zulu Natal	Dr Sinaye Ngcapu	The role of genital inflammation and microbiota on HIV susceptibility in the female genital tract: understanding the potential susceptibility factors of HIV acquisition using ex vivo human cervical cancer	19/108	PRF Qulu 19/108
Radebe Miss PL	University of KwaZulu-Natal	Dr PP Gumbi	Investigating the anatomical, behavioural and immunological characteristics of the female genital tract in adolescent girls that are associated with HPV and HIV risk	21/41	PRF Radebe 21/41



Rakaki Ms ME	University of Pretoria	Prof Marietjie Venter	Pathogenesis and Immune response to Shuni virus strains in Africa	20/38	PRF Rakaki 20/38
Raphalalani Miss M	University of Venda	Pascal O. Bessong	Genetic diversity of human herpesvirus type 8 in Northern South Africa	21/42	PRF Raphalalani 21/42
Roberts Ms BL	Stellenbosch University	Dr Tongai Maponga	Full length genome sequencing of hepatitis E virus among South African patients	21/13	PRF Roberts 21/13
Roebuck Mrs G	Univ of Pretoria	Prof Jacques Theron	Mutation of putative phosphorylated serine residues on NS2 of AHSV-4 to affect VIB formation	18/89	PRF Roebuck 18/89
Ryder Ms MA	University of Pretoria	Prof Michael S. Pepper	Generation of infectious, replication competent CCR5-, CXCR4- and dual-tropic HIV 1C molecular clones from South Africa as a powerful molecular research tool for HIV-1 subtype diversity research	20/25	PRF Ryder 20/25
Salemane Miss K	University of Pretoria	Prof Janet Mans	Water-based Epidemiological Investigation of Noro- and Hepatitis E Viruses in South Africa	21/43	PRF Salemane 21/43
San Mr EJ	University of KwaZulu-Natal	Prof. Tulio de Oliveira	Development of Genomic Tools and Methods for SARS-CoV-2 and Other Important Pathogens in Africa	21/63	PRF San 21/63
Sander Mr WJ	University of the Free State	Prof HG O'Neill	Investigating the role and mechanism of the inflammatory eicosanoid, prostaglandin E2, during rotavirus infection	19/82	PRF Sander 19/82
Savhasa Miss F	Sefako Makgatho Health Sciences University	Dr Cliff Abdul Magwira	Investigation of enteric viral agents of acute gastroenteritis in paediatric stool samples collected during the pre and post rotavirus vaccine introduction eras in South Africa	20/26	PRF Savhasa 20/26
Sekee Mr TR	University of the Free State	Prof Felicity Burt	Ecology of flaviviruses	19/83	PRF Sekee 19/83
Sesoko Miss KQ	Sefako Makgatho Health Sciences University	Dr Cliff Magwira	Investigation of enteric viral pathogens in fecal samples collected from asymptomatic infants under the age of five in northern Pretoria	21/14	PRF Sesoko 21/14
Singh Miss P	University of the Witwatersrand	Abdullah Ely	Targeted transcriptional silencing of hepatitis B using designer epigenome modifiers expressed as mRNA	18/100	PRF Singh 18/100
Sirkisson Miss S	University of Kwa-Zulu Natal	Dr Katlego Sojane	The biological phenotype of HIV-1 C in individuals with cryptococcal meningitis	20/27	PRF Sirkisson 20/27
Slaughter Ms C	University of the Witwatersrand	Dr Gillian Hunt	Validation of multiplex assay to detect drug resistance mutations in the protease, reverse transcriptase and integrase regions of HIV-1	21/16	PRF Slaughter 21/16
Smith Miss T	University of the Witwatersrand	Prof Patrick Arbuthnot	Inhibiting Hepatitis virus replication with the use of anti-HBV TALEN mRNA-containing lipoplexes	19/84	PRF Smith 19/84
Sondlane Ms H	University of Free State	Prof Martin Nyaga	Genomic characterization of severe acute respiratory syndrome 2 coinfecting with other severe acute respiratory infection causing viruses	21/44	PRF Sondlane 21/44
Spencer Ms H	National Institute for	Dr Cathrine Scheepers, Dr	Functional impact of IGHG3 Genetic Variation in HIV-1 Infection	20/28	PRF Spencer 20/28

	Communicable Diseases	Simone Richardson and Prof Penny Moore			
Stans Miss L	University of Pretoria	Prof Janet Mans	Characterisation of Noroviruses Detected By The Allplex™ GI- Virus Assay In Wastewater	21/17	PRF Stans 21/17
Subbiah Miss DV	University of Cape Town	Prof Wendy Burgers / Melissa-Rose Abrahams	Investigating antibody responses to SARS-CoV-2 and endemic human coronaviruses (UCT Virology Department)	21/15	PRF Subbiah 21/15
Sutherland Mr A	University of Stellenbosch	Prof. Wolfgang Preiser	<i>In vitro</i> and <i>in vivo</i> characterisation of SARS-CoV-2 variant 501Y.V2 properties: growth kinetics, viral shedding, and response to convalescent and vaccinee sera	21/45	PRF Sutherland 21/45
Swanepoel Mrs L	University of Stellenbosch	Prof. Wolfgang Preiser	Serological testing to detect SARS-CoV-2 antibodies	21/18	PRF Swanepoel 21/18
Terblanche Mr GI	University of the Free State	Prof. Felicity Jane Burt	Tick-borne flaviviruses and tick diversity in the Eastern Cape and Free State Provinces of South Africa	21/64	PRF Terblanche 21/64
Thuynsma Miss C	University of the Free State	Prof Felicity Burt	Genetic analysis of HPV type 11 isolates from patients with recurrent respiratory papillomatosis in South Africa	19/65	PRF Thuynsma 19/65
Tiiti Miss T	Sefako Makgatho Health Sciences Univ	Dr RL Lebelo	HPV testing using self-collected versus doctor-collected cervical samples for cervical cancer screening and the acceptance of women towards self-sampling	18/101	PRF Tiiti 18/101
Tinarwo Mr M	Univ of Cape Town	Dr Ann Meyers	Development of a DIVA diagnostic ELISA for African horse sickness virus infection (MSc conversion)	18/92	PRF Tinarwo 18/92
Tshitamune Miss A	University of Cape Town	Dr Sandiswa Mbewana	Development of universal Influenza A vaccine candidates in <i>Nicotiana benthamiana</i>	21/46	PRF Tshitamune 21/46
Van Der Merwe Miss M	University of Pretoria	Dr Marinda Mortlock	Assessing paramyxovirus excretion in urine of cave-dwelling insectivorous bat species from South Africa.	21/20	PRF VDMerwe 21/20
Van Der Walt Ms M	University of Pretoria	Prof Marietjie Venter	Investigating the contribution of Orthobunyaviruses in humans and animals with unsolved febrile and neurological disease in South Africa	20/29	PRF VDWalt 20/29
Vanmali H Mr	University of Stellenbosch	Dr Corena de Beer	Detection and genotyping of human rhinovirus and respiratory syncytial virus in sudden unexpected death in infancy (SUDI) cases at the Tygerberg Medico-legal Mortuary, Cape Town	21/47	PRF Vanmali 21/47
Visser Mr C	University of the Free State	Professor Robert R Bragg	Development of phage-display derived antiviral peptides against Newcastle disease virus	21/48	PRF Visser 21/48
Viviers Mr S	University of Pretoria	Dr Marike Geldenhuys	Investigating the tissue tropism and viral loads of coronaviruses infecting Egyptian rosette bats	21/21	PRF Viviers 21/21
Walter Mr R	University of Pretoria	Dr Walda van Zyl	Genotyping of adeno- and rotaviruses detected by real-time multiplex RT-PCR in environmental water samples	21/22	PRF Walters 21/22

Whittle Miss L	University of Cape Town	Dr. Ros Chapman	Development of a dual vaccine against East Coast fever (ECF) and lumpy skin disease (LSD)	19/85	PRF Whittle 19/85
Wiid Mr S	University of the Free State	Prof Felicity Burt	Development of molecular and serological assays for orthobunyaviruses and orthonairoviruses	19/67	PRF Wiid 19/67
Zungu Miss APS	University of KwaZulu-Natal	Dr.Bongiwe Ndlovu	Evolution of Strain-specific neutralizing antibody responses in HIV-1 subtype C infected individuals that developed broadly neutralizing antibodies	19/68	PRF Zungu 19/68
Zungu Mr Z	University of Cape Town	Nyaradzo Chigaorimbo-Tsiki wa	HIV targets in the foreskin: characterization and phenotyping of migrating HIV myeloid target cells from ex vivo foreskin tissue (UCT Virology Department)	21/23	PRF Zungu 21/23