

CELEBRATES SCIENCE



January 2023

1. INTRAMURAL RESEARCH UNITS

Alcohol, Tobacco and Other Drugs

1. **Bantjes J**, Swanevelder S, Jordaan E, Sampson NA, Petukhova MV, Lochner C, Stein DJ, Kessler RC. COVID-19 and common mental disorders among university students in South Africa. *South African Journal of Science*. 2023 Jan 31;119(1-2):13594. DOI: 10.17159/sajs.2023/13594
2. Giusto A, Jack HE, Magidson JF, Ayuku D, Johnson SL, Lovero KL, Hankerson SH, Sweetland AC, **Myers B**, Fortunato dos Santos P, Puffer ES, Wainberg ML. Global is local: Leveraging global mental-health methods to promote equity and address disparities in the United States. *Clinical Psychological Science*. 2023 Jan 10. DOI: 10.1177/21677026221125715
3. Hunt X, Shakespeare T, Vilyte G, Melendez-Torres GJ, Henry J, Bradshaw M, Naidoo S, Mbuyamba R, Aljassem S, Suubi E, Aljassem N, Makhetha M, **Bantjes J**. Effectiveness of social inclusion interventions for anxiety and depression among adolescents: A systematic review. *Environmental Research and Public Health*. 2023 Jan 19. DOI: 10.3390/ijerph20031895

Biomedical Research and Innovation Platform

1. Adam S, McIntyre HD, Tsoi KY, Kapur A, Ma RC, **Dias S**, Okong P, Hod M, Poon LC, Smith GN, Bergman L, Algurjia E, O'Brien P, Medina VP, Maxwell CV, Regan L, Rosser ML, Jacobsson B, Hanson MA, O'Reilly SL, McAuliffe FM, FIGO Committee on the impact of pregnancy on long-term health and the FIGO division of maternal and newborn health. Pregnancy as an opportunity to prevent type 2 diabetes mellitus: FIGO best practice advice. *International Journal of Gynecology and Obstetrics*. 2023 Jan 12;160 Suppl 1:56-67. DOI: 10.1002/ijgo.14537
2. Fabunmi OA, **Dludla PV**, Ngcobo SR, Nkambule BB. Investigating the risks of cardiovascular disease among premenopausal women using oral contraceptive: A protocol for a systematic review and meta-analysis. *BMJ Open*. 2023 Jan 18;13(1):e071118. DOI: 10.1136/bmjopen-2022-071118
3. **Goedecke JH**, **Pheiffer C**, Mendham AE. Environmental exposures are important for type 2 diabetes pathophysiology in sub-Saharan African populations. Reply to Christensen D, Hjort L, Mpagama S et al [letter]. *Diabetologia*. 2023 Jan 24. DOI: 10.1007/s00125-022-05859-3
4. **Venter P**, **van Onselen R**. Evaluating the "wrong-way-round" electrospray ionization of antiretroviral drugs for improved detection sensitivity. *Analytical and Bioanalytical Chemistry*. 2023 Jan 13. DOI: 10.1007/s00216-022-04499-1
5. Wootton O, **Dalvie S**, Susser E, Gur RC, Stein DJ. Within-individual variability in cognitive performance in schizophrenia: A narrative review of the key literature and proposed research agenda. *Schizophrenia Research*. 2023 Jan 26. DOI: 10.1016/j.schres.2023.01.028
6. **Ziqubu K**, Mazibuko-Mbeje SE, **Mthembu SXH**, **Mabhida SE**, **Jack BU**, Nyambuya TM, Nkambule BB, Basson AK, Tiano L, **Dludla PV**. Anti-obesity effects of metformin: A scoping review evaluating the feasibility of brown adipose tissue as a therapeutic target. *International Journal of Molecular Sciences*. 2023 Jan 23;24(3):2227. DOI: 10.3390/ijms24032227

Biostatistics

1. Michaelis IA, Krägeloh-Mann I, Mazinu M, **Jordaan E**. Growth of a cohort of very low birth weight and preterm infants born at a single tertiary health care center in South Africa. *Frontiers in Pediatrics*. 2023 Jan 18;10:1075645.
DOI: 10.3389/fped.2022.1075645
2. Turcotte-Tremblay AM, Leerapan B, Akweongo P, Amponsah F, Aryal A, Asai D, Awoonor-Williams JK, Ayele W, Bauhoff S, Doubova SV, Gadeka DD, Dulal M, Gage A, Gordon-Strachan G, Haile-Mariam D, Joseph JP, Kaewkamjornchai P, Kapoor NR, Gelaw SK, Kim MK, Kruk ME, Kubota S, Margozzini P, Mehata S, Mthethwa L, Nega A, Oh J, Park SK, Passi-Solar A, Perez Cuevas RE, **Reddy T**, Rittiphairoj T, Sapag JC, Thermidor R, Tlou B, Arsenault C. Tracking health system performance in times of crisis using routine health data: Lessons learned from a multicountry consortium. *Health Research Policy and Systems*. 2023 Jan 31;21(1):14.
DOI: 10.1186/s12961-022-00956-6
3. Wand H, Vujovich-Dunn C, Moodley J, **Reddy T**, Naidoo S. Population-level impact of beliefs and attitudes on vaccine decision making in South Africa: Results from the COVID-19 Vaccine Survey (CVACS) (2021/2022). *Public Health*. 2023 Jan 10.
DOI: 10.1016/j.puhe.2023.01.007

Burden of Disease

1. Adeleke AI, **Hlongwa M**, Makhunga S, Ginindza TG. Mapping evidence on the epidemiology and cost associated with maxillofacial injury among adults in sub-Saharan Africa: A scoping review protocol. *International Journal of Environmental Research and Public Health*. 2023 Jan 14;20(2):1531.
DOI: 10.3390/ijerph20021531
2. **Roomaney RA**, van Wyk B, **Cois A**, **Pillay van-Wyk V**. Multimorbidity patterns in South Africa: A latent class analysis. *Frontiers in Public Health*. 2023 Jan 11;10:1082587.
DOI: 10.3389/fpubh.2022.1082587

Centre for Tuberculosis

1. **Conceição EC**, da Conceição ML, Marcon DJ, **Loubser J**, Andrade GL, Silva SPD, Cruz ACR, Sharma A, Suffys P, Lima KVB. Genomic diversity of the rarely observed genotype of the *Mycobacterium tuberculosis* Central Asian (CAS) lineage 3 from North Brazil. *Mircoorganisms*. 2023 Jan 4;11(1):132.
DOI: 10.3390/microorganisms11010132
2. Deutsch EW, Vizcaino JA, Jones AR, Binz PA, Lam H, Klein J, Bittremieux W, Perez-Riverol Y, **Tabb DL**, Walzer M, Ricard-Blum S, Hermjakob H, Neumann S, Mak TD, Kawano S, Mendoza L, Van Den Bossche T, Gabriels R, Bandeira N, Carver J, Pullman B, Sun Z, Hoffmann N, Shofstahl J, Zhu Y, Licata L, Quaglia F, Tosatto SCE, Orchard SE. Proteomics standards initiative at twenty years: Current activities and future work. *Journal of Proteome Research*. 2023 Jan 10.
DOI: 10.1021/acs.jproteome.2c00637
3. **Kerr TJ**, **van Heerden J**, **Goosen WJ**, **Kleynhans L**, Buss PE, Latimer E, **Miller MA**. Detection of Elephant Endotheliotropic Herpesvirus (EEHV) in free-ranging African elephants (*Loxodonta Africana*) in the Kruger National Park, South Africa. *Journal of Wildlife Diseases*. 2023 Jan 3.
DOI: 10.7589/JWD-D-22-00015

4. Musvosvi M, Huang H, Wang C, Xia Q, Rozot V, Krishnan A, Acs P, Cheruku A, Obermoser G, Leslie A, Behar SM, Hanekom WA, Bilek N, Fisher M, Kaufmann SHE, **Walzl G**, Hatherill M, Davis MM, Scriba TJ, Adolescent Cohort Study team, GC6-74 Consortium [**Walzl G, Black GF, van der Spuy G, Stanley K, Kriel M, Du Plessis N, Nene N, Roberts T, Kleynhans L, Gutschmidt A, Smith B, Loxton AG, Chegou NN, Tromp G, Tabb D**]. T cell receptor repertoires associated with control and disease progression following Mycobacterium tuberculosis infection. *Nature Medicine*. 2023 Jan 5;29(1):258-269. DOI: 10.1038/s41591-022-02110-9

Environment and Health

1. **Mahlangeni N, Street R**, Horn S, **Mathee A**, Mangwana N, Dias S, Sharma JR, Ramharack P, Louw J, Reddy R, Surujlal-Naicker A, **Nkambule S, Webster C**, Mdhuli M, Gray G, Muller C, Johnson R. Using wastewater surveillance to compare COVID-19 outbreaks during the Easter holidays over a 2-year period in Cape Town, South Africa. *Viruses*. 2023 Jan 5; 15(1):162. DOI: 10.3390/v15010162
2. Sepadi MM, **Nkosi V**. Personal PM2.5 exposure monitoring of informal cooking vendors at indoor and outdoor markets in Johannesburg, South Africa. *International Journal of Environmental Research and Public Health*. 2023 Jan 30;20(3):2465. DOI: 10.3390/ijerph20032465
3. **Wright CY, Kapwata T, Wernecke B**, Malherbe H, Bütow K-W, **Naidoo N**, Garland RM, de Lange A, **Murray GE**, OPERATION SMILE. The risk of orofacial cleft lip/palate due to maternal ambient air pollution exposure: A call for further research in South Africa. *Annals of Global Health*. 2023 Jan 27;89(1):6. DOI: 10.5334/aogh.4007

Gender and Health

1. Chimwaza-Manda W, Kamndaya M, Pilgrim N, Mathur S, Chipeta EF, **Sikweyiya Y**. Social support and very young adolescent girl's knowledge on sexual relationships: A comparative qualitative study of Girl Only Clubs' participants and non-participants in rural Malawi. *PLoS Global Public Health*. 2023 Jan 12;3(1):e0001339. DOI: 10.1371/journal.pgph.0001339
2. **Jewkes R**, Milovanovic M, Otjombe K, Hlongwane K, Hill N, Mbowane V, Gray G, **Coetzee J**. Understanding drivers of female sex workers' experiences of external/enacted and internalised stigma: Findings from a cross-sectional community-centric national study in South Africa. *Culture, Health & Sexuality*. 2023 Jan 2. DOI: 10.1080/13691058.2022.2160014
3. **Mahlangu P, Sikweyiya Y, Gibbs A, Shai N, Machisa M**. "I carry the trauma and can vividly remember": Mental health impacts of the COVID-19 pandemic on frontline health care workers in South Africa. *International Journal of Environmental Research and Public Health*. 2023 Jan 29;20(3):2365. DOI: 10.3390/ijerph20032365
4. Mlangeni N, Malotle M, Made F, Ramodike J, **Sikweyiya Y**, Du Preez C, Thompson NS, Zungu M. Factors associated with TB screening among agricultural workers in Limpopo Province, South Africa. *Global Health Action*. 2023 Jan 20. DOI: 10.1080/16549716.2022.2162227

5. Stoebenau K, **Dunkle K, Willan S, Shai N, Gibbs A**. Assessing risk factors and health impacts across different forms of exchange sex among young women in informal settlements in South Africa: A cross-sectional study. *Social Science & Medicine*. 2023 Jan 2. DOI: 10.1016/j.socscimed.2022.115637

Health Systems

1. **Carries S, Mkhwanazi Z**, Sigwadhi L, Moshabela M, Nyirenda M, Goudge J, **Govindasamy D**. An economic incentive package to support the wellbeing of caregivers of adolescents living with HIV during the COVID-19 pandemic in South Africa: A feasibility study protocol for a pilot randomised trial. *Pilot and Feasibility Studies*. 2023 Jan 9;9(1):3. DOI: 10.1186/s40814-023-01237-x
2. Githaiga JN, Späth C, Sicwebu N, Perera S, Tolla T, **Leon N**. Critical reflections on conducting qualitative health research during COVID-19: The lived experiences of a cohort of postgraduate students in a South African university. *International Journal of Qualitative Methods*. 2023 Jan 2; 22:16094069221148406. DOI: 10.1177/16094069221148406
3. Grant M, **Bhana A**, Kathree T, Khuzway N, Van Rensburg AJ, Mthethwa L, Gigaba S, Ntswe E, Luvuno Z, Petersen I. The feasibility of a Community Mental Health Education and Detection (CMED) tool in South Africa. *SSM Mental Health*. 2023 Jan 17. DOI: 10.1016/j.ssmmh.2023.100188
4. Poku OB, Eschliman EL, Entaile P, Rampa S, Mehta H, Tal D, Silvert L, Li T, Becker TD, **Govindasamy D**, Stockton MA, Adedimeji A, Ho-Foster A, Blank MB, Dangerfield DT, Yang LH, Murray SM. "It's better if I die because even in the hospital, there is a stigma, people still gossip": Gossip as a culturally shaped labeling process and its implications for HIV-related stigma in Botswana. *AIDS and Behavior*. 2023 Jan 17. DOI: 10.1007/s10461-023-03980-x

HIV and Other Infectious Diseases

1. Adriano Vieira V, Lim N, Singh A, Leitman E, D'Souza RR, Adland E, Muenchhoff M, Roider J, Marín Lopez MÁ, Carabelli J, Giandhari J, Groll A, Jooste P, Prado JG, Thobakgale C, Dong K, **Kiepiela P**, Prendergast AJ, Tudor-Williams G, Frater J, Walker BD, Ndung'u T, Ramsuran V, Leslie A, Kløverpris HN, Goulder P. Slow progression of pediatric HIV associates with early CD8+ T cell PD-1 expression and a stem-like phenotype. *JCI Insight*. 2023 Jan 5. DOI: 10.1172/jci.insight.156049

Non-Communicable Disease

1. Cheng AYY, Gomes MB, Kalra S, **Kengne AP**, Mathieu C, Shaw JE. Applying the WHO global targets for diabetes mellitus. *Nature Reviews Endocrinology*. 2023 Jan 16. DOI: 10.1038/s41574-022-00793-1
2. **George C, Hill J, Nqebelele U, Peer N, Kengne AP**. Leveraging the South African diabetes prevention programme to screen for chronic kidney disease: An observational study. *BMJ Open*. 2022 Jan 6;13(1):e068672. DOI: 10.1136/bmjopen-2022-068672
3. **Hill J**, Yako Y, **George C**, Musarurwa H, Jordaan E, **Kengne AP**. A study protocol for a cluster randomized controlled trial to test the applicability of the South African diabetes prevention program in the Eastern Cape Province of South Africa. *BMC Public Health*. 2023 Jan 31;23(1):214. DOI: 10.1186/s12889-022-14884-1

4. **Madlala SS, Hill J, Kunneke E, Faber M.** Nutrient density and cost of commonly consumed foods: A South African perspective. *Journal of Nutritional Science*. 2023 Jan 25;12:e10. DOI: 10.1017/jns.2022.119
5. **Modjadji P, Seabela ES, Ntuli B, Madiba S.** Beliefs and norms influencing initiation and sustenance of exclusive breastfeeding: Experiences of mothers in primary health care facilities in Ermelo, South Africa. *International Journal of Environmental Research and Public Health*. 2023 Jan 13;20(2):1513. DOI: 10.3390/ijerph20021513
6. Nkurunziza M, **Mchiza ZJ, Zembe Y.** Meals on wheels: Promoting food and nutrition security among older persons in Cape Town, South Africa. *International Journal of Environmental Research and Public Health*. 2023 Jan 31;20(3):2561. DOI: 10.3390/ijerph20032561
7. **Peer N, Horstmann LK, Hill J, Kengne AP.** Differential management of hypertension and dyslipidaemia in urban South Africans by glycaemic status. *Journal of Hypertension*. 2023 Jan 31;41(Suppl 1):e495. DOI: 10.1097/01.hjh.0000917972.63601.34
8. Sih C, Choukem SP, Lubeka N, **Kengne AP.** Validation of two Asian noninvasive risk models for predicting prevalent undiagnosed chronic kidney disease in diabetic patients receiving care at a reference hospital in a sub-Saharan African country: A cross-sectional study. *Saudi Journal of Kidney Diseases and Transplantation*. 2023 Jan 16;33(1):132-146. DOI: 10.4103/1319-2442.367806

Office of AIDS Research

1. Boswell MT, Maimela T, Hameiri-Bowen D, Riley G, Malan A, Steyn N, Nolutshungu N, de Villiers TR, de Beer Z, Mathabathe J, Tshabalala K, **Abdullah F**, Ramlall R, Heystek M, Basu D, Rheeder P, Ueckermann V, van Houghenhouck-Tulleken W. COVID-19 severity and in-hospital mortality in an area with high HIV prevalence. *South African Journal of HIV Medicine*. 2023 Jan 27;24(1):1412. DOI: 10.4102/sajhivmed.v24i1.1412

Office of the President/Vice-President

1. Filbey L, Zhu JW, D'Angelo F, Thabane L, Khan MS, Lewis E, Patel MR, Powell-Wiley T, Miranda JJ, **Zuhlke L**, Butler J, Zannad F, Van Spall HGC. Improving representativeness in trials: A call to action from the Global Cardiovascular Clinical Trialists Forum. *European Heart Journal*. 2023 Jan 25. DOI: 10.1093/eurheartj/ehac810
2. Mena Lora AJ, Long JE, Huang Y, Baden LR, El Sahly HM, Follmann D, Goepfert P, **Gray G**, Grinsztejn B, Kotloff K, Rouphael N, Sobieszczyk M, Walsh SR, Andriesen J, Shah KA, Zhang Y, Gilbert P, Janes H, Gay CL, Falsey AR, Tripp RL, Gorman RL, Tong T, Marovich M, Neuzil K, Corey L, Kublin JG, COVID-19 Prevention Network [Meintjies G, Naidoo L, Garret N, Naicker V, Naidoo J, Fairlie L, Delany-Moretlwe AS]. Rapid development of an integrated network infrastructure to conduct phase 3 COVID-19 vaccine trials. *JAMA Network Open*. 2023 Jan 23;6(1):e2251974. DOI: 10.1001/jamanetworkopen.2022.51974

South African Cochrane Centre

1. Charide R, Stallwood L, Munan M, Sayfi S, Hartling L, Butcher NJ, Offringa M, Elliott S, Richards DP, Mathew JL, Akl EA, **Kredo T**, Mbuagbaw L, Motillal A, Baba A, Prebeg M, Relihan J, Scott SD, Suvada J, Falavigna M, Klugar M, Lotfi T, Stevens A, Pottie K, Schünemann HJ. Knowledge mobilization activities to support decision-making by youth, parents, and adults using a systematic and living map of evidence and recommendations on COVID-19: Protocol for three randomized controlled trials and qualitative user-experience studies. *Trials*. 2023 Jan 14;24(1):27.
DOI: 10.1186/s13063-023-07067-9
2. **Durão S**, Burns J, **Schmidt BM**, Tumusiime D, **Hohlfeld A**, Pfadenhauer L, Ongolo-Zogo C, Rehfues E, **Kredo T**. Infrastructure, policy and regulatory interventions to increase physical activity to prevent cardiovascular diseases and diabetes: A systematic review. *BMC Public Health*. 2023 Jan 16;23(1):112.
DOI: 10.1186/s12889-022-14841-y
3. **Nnaji CA**, **Wiysonge CS**, **Cooper S**, **Mayeye A**, **Luphondo L**, **Mabuya T**, **Kalui N**, Lesosky M, **Ndwandwe D**. Contextualising missed opportunities for children's vaccination: A theory-informed qualitative study in primary care settings in Cape Town, South Africa. *Human Vaccines & Immunotherapeutics*. 2023 Jan 5.
DOI: 10.1080/21645515.2022.2162771

2. EXTRAMURAL RESEARCH UNITS

Antibody Immunity

1. **Bhiman JN, Richardson SI, Lambson BE, Kgagudi P, Mzindle N, Kaldine H, Crowther C,** Gray G, Bekker LG, Novavax trial clinical lead author group [Koen A, Fairlie L, Dheda K, Singh N], Shinde V, Bennett C, Glenn GM, Madhi SA, **Moore PL.** Novavax NVX-COV2373 triggers neutralization of Omicron sub-lineages. *Scientific Reports.* 2023 Jan 21;13(1):1222. DOI: 10.1038/s41598-023-27698-x
2. Sun K, Tempia S, Kleynhans J, von Gottberg A, McMorro ML, Wolter N, **Bhiman JN,** Moyes J, Carrim M, Martinson NA, Kahn K, Lebina L, du Toit JD, Mkhencele T, Viboud C, Cohen C, PHIRST-C group. Rapidly shifting immunologic landscape and severity of SARS-CoV-2 in the Omicron era in South Africa. *Nature Communications.* 2023 Jan 16;14(1):246. DOI: 10.1038/s41467-022-35652-0

Bioinformatics Capacity Development

1. Hiltmann S, Rasche H, Gladman S, Hotz HR, Larivière D, Blankenberg D, Jagtap PD, Wollmann T, Bretaudeau A, Goué N, Griffin TJ, Royaux C, Le Bras Y, Mehta S, Syme A, Coppens F, Dreesbeke B, Soranzo N, Bacon W, Psomopoulos F, Gallardo-Alba C, Davis J, Föll MC, Fahrner M, Doyle MA, Serrano-Solano B, Fouilloux AC, **van Heusden P,** Maier W, Clements D, Heyl F, Galaxy Training Network, Grüning B, Batut B. Galaxy training: A powerful framework for teaching! *PLoS Computational Biology.* 2023 Jan 9;19(1):e1010752. DOI: 10.1371/journal.pcbi.1010752

Cardiometabolic Health

1. **Motshwari DD, Matshazi DM,** Erasmus RT, Kengne AP, **Matsha TE,** George C. MicroRNAs associated with chronic kidney disease in the general population and high-risk subgroups-A systematic review. *International Journal of Molecular Sciences.* 2023 Jan 16;24(2):1792. DOI: 10.3390/ijms24021792

Centre for Health Economic and Decision Science

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4. RESEARCH CENTRES

Soweto Matlosana SAMRC Collaborating Centre for HIV/AIDS and TB

1. Moosa F, Tempia S, Kleynhans J, McMorro M, Moyes J, du Plessis M, Carrim M, Treurnicht FK, Helfersee O, Mkhencele T, Mathunjwa A, **Martinson NA**, Kahn K, **Lebina L**, Wafawanaka F, Cohen C, von Gottberg A, Wolter N, **Mothlaoleng K**, Mathee A, Piketh S. Incidence and transmission dynamics of *bordetella pertussis* infection in rural and urban communities, South Africa, 2016-2018. *Emerging Infectious Diseases*. 2023 Jan 10;29(2): 294-303.
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5. CLOSED RESEARCH UNITS

Molecular Mycobacteriology

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6. RESEARCH UNITS WITH NO PUBLICATIONS

Intramural

- Genomics Centre
- Office Malaria
- Office of Tuberculosis Research
- Primate

Extramural

- Antimicrobial Resistance and Global Health Research
- Antiviral Gene Therapy
- Centre for Antimicrobial Resistance
- Common Epithelial Cancer Research Centre
- Drug Discovery and Development
- Gynaecological Cancer Research Centre
- Health Services to System Research
- HIV/TB Pathogens and Treatment
- Platform for Pharmacogenomics Research and Translation
- Precision and Oncology
- South African Population Research Infrastructure Network

Research Centre

- Centre for Basic and Translational Human TB Research
- Centre for Digital Health Innovation
- Centre for Multi-Disciplinary Research on Malaria
- Centre for Optimising Antimalarial Therapy in South Africa
- Centre for Sustainable Malaria Control
- Centre for Tuberculosis Biomarker-Targeted Intervention
- Clinical and Community HIV-Tuberculosis Research
- TB Free through Research and Innovation
- Tuberculosis Collaborating Centre for Child Health (TB-CHILD)
- Tygerberg SAMRC Collaborating centre for HIV Laboratory Research
- Wits Clinical HIV/TB Research Unit, WITS Health Consortium
- Wits RHI Collaborating Centre for HIV/AIDS

7. GRANTS AWARDED

SAMRC LIST OF NEW CONTRACTS FOR JANUARY 2023					
SAMRC Unit	Funder	Main Funder	Project Title/Description	Contract Value	
				Rand	Foreign Currency
ATODRU	RTI International	RTI International	Cost reimbursement: Adapting and testing a behavioral intervention to prevent FASD and adverse infant outcomes	R1,220,207.00	\$70,023.00
GHRU	CDC Foundation	CDC Foundation	Subcontractor Agreement: Bloomberg Data for Health Initiative	R7,635,480.00	\$438,171.00
HIDRU	CAPRISA	NIH	4 th Addendum: KwaZulu-Natal Clinical Trials Unit (CTU)	R3,250,992.00	\$186,562.00
OATB	ABSA	ABSA	Funding Agreement	R2,500,000.00	
	Department of Science & Innovation	Department of Science & Innovation	Implementation of a social impact bond for adolescent girls and young women	R30,543,478.00	

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