



HUB RESEARCH DAY PROGRAM 07 September 2022

Session	Activity	Time	Speaker / Presenter	Title	Session Chair
Registration and Welcome	Registration / Poster Setup	08h15 to 08h45			
HUB Research Day Inauguration	Welcome Address	08h45 to 09h00	Prof. Sharon Prince Head of Dept. of Human Biology	HUB Research Day 2022 Welcome Address	Prof. Sudesh Sivasu Chair, HRD2022
Plenary Session 1 Venue: New Learning Centre, Anatomy Building	Keynote Address 1	09h00 to 09h20	Prof. Ntobeko Ntusi Chair & HOD: Department of Medicine, UCT	<i>My journey through academia and lessons learnt</i>	Prof. Sharon Prince / Prof. Sudesh Sivasu
	Keynote Address 2	09h20 to 09h40	Prof. Valerie Mizrahi Director, Institute of Infectious Disease & Molecular Medicine	<i>Lessons learned from my journey as a basic TB researcher in South Africa</i>	
	Round Table 1	09h40 to 10h00	Prof. Ntobeko Ntusi & Prof. Valerie Mizrahi		
Venue: Frances Ames, Bernard Fuller Building	Coffee Break 10h00 to 10h20				



Session	Activity	Time	Speaker / Presenter		Title	Session Chair	
			Presenter	Abstract ID			
Technical Session 1 Venue: New Learning Centre, Anatomy Building	Oral Presentations 10 mins per presentation 7mins + 3mins Q&A	10h20 to 10h30	Fleur Warton	HRD22038	OP01	Corpus callosum area in HIV and ART exposed uninfected neonates	Prof. Thomas Franz A/Prof. Geney Gunston
		10h30 to 10h40	Chelsey Voegt	HRD22021	OP02	Bilateral hip dysplasia in a South African individual from the 17th – 19th century.	
		10h40 to 10h50	Thulisa Mkatzo	HRD22034	OP03	Modelling the early development of cartilage and bone in Mseleni Joint Disease using induced pluripotent stem cells	
		10h50 to 11h00	Amalia N Awala	HRD22036	OP04	An investigation of microglial activation in neurocysticercosis	
		11h00 to 11h10	Farai Mberi	HRD22063	OP05	Tractographic Analysis of HIV-related Changes in Structural Connectivity in Children Living With HIV	
		11h10 to 11h20	Justine van Greenen	HRD22035	OP06	Electroporation: a cost-effective system to validate putative enhancer activity in the context of the human brain.	
		11h30 to 11h40	Arron Correia	HRD22032	OP07	Investigating the effect of fear of sleep on self-reported sleep measures in African-origin residents of a low-income setting	
		11h40 to 11h50	Alexandra Lancaster	HRD22026	OP08	Effect of 3 different subscapularis attachment positions on muscle moment arm, post-RTSA in two different designs: An OpenSim modelling study	
Change of Venue: Lunch Poster Sessions							
Technical session 2 Venue: Frances Ames, Bernard Fuller Building	Poster Presentations (max 24 posters) per session	12h00 to 13h00	PP01 to PP24		Physical Posters		A/Prof. Asfree Gwanyanya A/Prof. Delva Shamley





Technical session 3 Venue: Frances Ames, Bernard Fuller Building	Poster Presentations (max 24 posters) per session	13h00 to 14h00	PP25 to PP48		Physical Posters		Dr. Dale Rae Dr. Frances Robertson
Change of Venue: Oral Sessions							
Session	Activity	Time	Speaker / Presenter		Title	Session Chairs	
			Presenter	Abstract ID			
Technical Session 4 Venue: New Learning Centre, Anatomy Building	Oral Presentations 10 mins per presentation 7mins + 3mins Q&A	14h10 to 14h20	Kentse Mpolokeng	HRD22031	OP09	The ophthalmic artery originating from the anterior cerebral artery.	Dr. Shareif Henricks Dr. Mubeen Goolam
		14h20 to 14h30	Alinafe Kaliwo	HRD22039	OP10	The Integration and Testing of Tele-audiology Services on a Non-Standalone Radio Access Network of a 5G-enabled Digital Health Testbed	
		14h30 to 14h40	Atoosa Amel	HRD22014	OP11	Building a stem cell-based in-vitro model of early mammalian development.	
		14h40 to 14h50	Dale Rae	HRD22059	OP12	Associations between chronotype and PERIOD3 variable number tandem repeat genotype in individuals with different levels of physical activity	
		14h50 to 15h00	Muhammad Arshad Eyasim	HRD22027	OP13	Design and Development of a CPAP Device with an Automated MDI Delivery System	
		15h00 to 15h10	Claire Bellis	HRD22061	OP14	The marine-derived antibiotic chromomycin A5 targets the oncogenic TBX2: a new strategy to treat breast cancer	
		15h10 to 15h20	Megan Blacker	HRD22060	OP15	Diagnosing sarcopenia in cancer patients using alternative markers of muscle mass	
		15h20 to 15h30	Amanda Menzele	HRD22022	OP16	Hyperglycaemia-induced impairment of autorhythmicity and impulse propagation in cardiac stem cells	
Venue: Frances Ames, Bernard Fuller Building	Coffee Break, Networking & Voting of Crowd Favourite Presentations 15h30 to 16h00						





Plenary Session 5 Venue: New Learning Centre, Anatomy Building	Keynote Address 3	16h00 to 16h20	Prof. Stephanie Burton President of the Royal Society of South Africa & member of the Council of Academy of Science of South Africa (ASSAf)	<i>From biotechnology to sustainability, and an academic career in interesting times</i>	Dr. Adhil Bhagwandin
	Keynote Address 4	16h20 to 16h40	Prof. Iqbal Parker Professor of Medical Biochemistry and Structural Biology	<i>An Update in our Understanding of the Molecular Biology of Oesophageal Cancer</i>	
	Roundtable Discussion 2	16h40 to 17h00	Prof. Stephanie Burton & Prof. Iqbal Parker		
Closing & Awards Venue: New Learning Centre, Anatomy Building	17h00 to 17h30: Closing & Awards				Prof. Sharon Prince, Dean. DDR and Keynote speakers
Venue: Anatomy Building Foyer	End of Program & Cocktail 17h30 onwards				





Poster Presentations: Session 1 12h00 to 13h00

Session	Activity	Time Slot	Speaker/Presenter			Title	Session Chair
			Presenter	Abstract ID	Presenter ID		
Technical session 2 Venue: Frances Ames, Bernard Fuller Building	Poster Presentations	12h00 to 13h00 PP01 to PP24	Ntokozo Magubane	HRD22017	PP01	Design, Verification and Validation of a Dynamic Model for an Intramuscular Autoinjector	A/Prof. Asfree Gwanyanya & A/Prof. Delva Shamley
			Stephen Jermy	HRD22043	PP02	Investigating the clinical viability of a control system-based slice-following sequence for free-breathing cardiovascular DTI	
			Habtamu Yimam	HRD22046	PP03	Bone-plate fitting assessment of novel anatomical acromion plates	
			Joel Philpott	HRD22023	PP04	Design and Development of a BPAP Non-invasive Ventilator: Prototype Development	
			Dr Roopam Dey	HRD22009	PP05	How does mechanism of injury influences scapula fracture pattern?	
			Maureen Etuket Dimitria	HRD22024	PP06	South African medical device regulatory pathways: A case study of the effect of the emergency authorisation protocols during the Covid-19 pandemic.	
			Jonathan Oehley	HRD22007	PP07	Development of an Ultraviolet Irradiation Device: Initial Bacterial Inactivation Profile	
			Thidilweli Denga	HRD22050	PP08	Establishing the equivalence of tele-audiology and in-person audiology practice	
			Sadiyah Malek	HRD22001	PP09	Assessment of morphological cranial and mandibular traits for sex estimation in southern African Holocene San and Khoekhoe populations.	
			Reagobaka Lichaba	HRD22033	PP10	Brain ventricle variations in a sample of South African cadavers.	



			Sandile Ntuli	HRD22025	PP11	The association between the gross anatomical variations of the extra-cranial Internal Carotid Artery (ICA) and the corresponding histological structural adaptations in the arterial wall	
			Sahar Jamal	HRD22037	PP12	Investigating gene regulation in the maturing human brain at single-nucleus resolution	
			Teresa Steyn	HRD22008	PP13	Exploring innate immune modulation of cell-type-specific gene expression and neuronal excitability in organotypic brain slice cultures	
			Christina Steyn	HRD22013	PP14	Exploring temporal gene expression dynamics during human brain maturation: a single-nucleus RNA sequencing study of the paediatric and adult brain *(AW)	
			Carly Burmeister	HRD22012	PP15	Investigating the co-operation between the human papillomavirus (HPV) oncoproteins E6/E7 with the oncogenic T-box transcription factor 3 (TBX3) to promote cervical cancer.	
			Emmanuel Nwosu	HRD22015	PP16	Reduced physical activity: A Risk behaviour for obesity in South African girls.	
			Natalie Erskine	HRD22062	PP17	Social network analysis of stakeholder collaboration for rugby union innovation globally	
			Yumna Albertus	HRD22052	PP18	Robotic walking to mitigate bone mineral density decline and adverse body composition in individuals with incomplete spinal cord injury	
			Muhammed Rizaan Behardien	HRD22018	PP19	Technical Proficiency Compared During Successful and Unsuccessful Tackles in International Rugby-7s.	
			Dane Sevenster	HRD22045	PP20	Hyperglycaemia-induced changes to the pericytes and astrocytes in a rat retinal culture model	
			Edmund Wessels	HRD22042	PP21	Comparative Usability Trial of a Novel Flexible Handheld Hysteroscopy System	
			Simone Rossouw	HRD22049	PP22	Developing an in vitro culture system of embryonic development using 3D stem cell culture *(AW)	
			Emily Ruth Higgitt	HRD22056	PP23	A characterization of the neuroimmune response to cryptococcal infection.	
			Stephen Jermy	HRD22044	PP24	Development of a Prospectively Motion Corrected Free-breathing FLASH Sequence	



Poster Presentations: Session 2 13h00 to 14h00

Session	Activity	Time Slot	Speaker/Presenter			Title	Session Chair
			Presenter	Abstract ID	Presenter ID		
Technical session 3 Venue: Frances Ames, Bernard Fuller Building	Poster Presentations	13h00 to 14h00 PP25 to PP48	Dr Roopam Dey	HRD22010	PP25	Post-surgical coracobrachialis kinematics in RTSA and Latarjet models	A/Prof. Asfree Gwanyanya & A/Prof. Delva Shamley
			Abby Blocker	HRD22048	PP26	A virtual clinic model for application in rural areas	
			Brandon Reabow	HRD22020	PP27	The Design and Development of a Low-Cost and Functional High Flow Nasal Oxygen Device	
			Anika Mac Arthur	HRD22053	PP28	Does living with HIV alter neural circuits involved in reward processing during adolescence?	
			Qhamani Maqungu	HRD22054	PP29	Design and Development of Tracking Device for Adrenaline Autoinjector to Integrate with Emergency Services	
			Maureen Etuket	HRD22005	PP30	Design and Development of an Open-Source ADL-Compliant Prosthetic Arm for Trans-radial Amputees.	
			Cliff Lowan	HRD22058	PP31	Design and Development of a Portable Multi-user Medical Grade Oxygen Concentrator	
			Jessi-Siobhan Masters	HRD22051	PP32	Relating the Application Force of Ultrasound Probes and Auto-Injectors with a Force Measurement Device	
			Maurine Chepkoech	HRD22041	PP33	Implementation and Evaluation of Telehaptics over the 5G Tactile Internet for Complete Remote Immersion - Towards 5G Powered Telesurgery	
			Daniël Kotze	HRD22003	PP34	Application of the bioarchaeology of care framework: A case study from Northern Cape, South Africa	
			Luthando Swaai	HRD22028	PP35	Morphologic and Morphometric Study of Foramen Ovale and Rotundum: An Anatomic Study	



			Motsoeneng Mamonyowe Portia	HRD22011	PP36	Breast cancer rehabilitation services in South Africa and survivor experience of these services in two dedicated cancer units *(AW)
			Stephanie Maria Ncube	HRD22002	PP37	The c-Myc/TBX3/Nucleolin signalling axis in breast cancer
			Mihlali Vuyo Mlaza	HRD22006	PP38	Marine-derived chromomycin A5: a novel strategy to treat TBX2-driven rhabdomyosarcoma
			Ruvimbo Mishi	HRD22016	PP39	Profiling the dynamics of the active transcriptome in juvenile and adult brain using spatial transcriptomics
			Sagel Julia Kundieko	HRD22047	PP40	Investigating the effects of neuroinflammation on network excitability in neurocysticercosis
			Ashleigh Thomas	HRD22019	PP41	Training, match, and non-rugby activities of elite male Under-18 rugby players.
			Reneilwe Modibedi	HRD22055	PP42	The effect of HIV on skeletal muscle and depot (gluteal and abdominal) specific adipose tissue mitochondrial function in postpartum women.
			Dominique Rosslee	HRD22029	PP43	Association between sleep and concussion in adult rugby players
			Maahir Kauchali	HRD22057	PP44	The Neuroimmune Response to Cryptococcus Neoformans Capsule fractions
			Philippa Forshaw	HRD22004	PP45	Sleep, cardiovascular disease risk and nocturnal blood pressure dipping in adults of African descent
			Iyanuoluwa Oyetunji	HRD22040	PP46	Nutritional and Health Status of HIV+ Adults Attending a Healthcare Facility in Cape Town
			Estelle Lambert	HRD22064	PP47	Does physical activity, in part, explain the lower-than-expected mortality from Covid-19 in Sub-Saharan Africa and other lower- and middle-income countries?
			Feroza Lekota	HRD22030	PP48	The Evaluation of a Social Media Health Campaign to Increase Engagement Rate, Reach & Health Education for Behaviour Change: The case for WoW!

*(AW) Abstract Withdrawn by the authors



Programme Coordinators Per Venue	
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