





SACCMA Conference 20-22 October 2025

20 October

TIME:	SESSION:	TOPIC:
08:00 - 08:45	Arrival & Registration Coffee / Tea	
08:45 - 09:00	9:00 Welcome and Introduction: Prof Anna-Mart Engelbrecht	
	Prof Fielding, Dean of Science Faculty, Stellenbosch University	
09:00 – 10:00	Session 1: Chairperson: Prof Chrisna Gouws (NWU)	
09:00 – 09:30	Invited Plenary Lecture:	
	Prof Peter Loskill, University of Tubingen	Recapitulating complex immunocompetent tissues using organ-on-chip and organoid technologies
09:30 – 09:45	Daniel Nieto (University of La Coruña)	From single-cell to organoids: building advanced in vitro tissue models
09:45 – 10:00	Krzysztof Wrzesinski (NWU/Celvivo)	Clinostat 'farms' for intensification of organoid production
10:00 – 10:20	Daniella Rylander Ottosson (Lund University)	Advancing neuron reprogramming for brain disorders in Africa
10:30 – 11:00	Break	Coffee / Tea
11:00 – 12:30	Session 2: Chairperson: Prof Iman van den Bout (UP)	
11:00 – 11:30	Invited Plenary Lecture:	
	Dr Sanjeev Rambharose, Stellenbosch University	From bench to bedside: Nanotechnology in targeted drug delivery and precision medicine
11:30 – 11:45	*Kyle Allen Brinders (UWC)	Characterization of Blood-Brain Barrier endothelial spheroid model developed from mouse brain endothelial (bEnd.5) cell line: A cost-effective method
11:45 – 12:00	*Cayleigh de Sousa (SU)	Dual-targeted therapy: Novel interventions to inhibit metastasis and chemoresistance in cervical cancer
12:00 – 12:15	*Madré Meyer (SU)	Novel applications of senolytics to prevent treatment resistance in cervical cancer
12:15 – 12:30	Sartorius	Importance of live cell imaging for real-time data acquisition and analysis and overview of Sartorius Incucyte Live Imaging and Analysis Systems







12:30 – 13:30	Lunch	
13:30 – 15:00	Sartorius Workshop	Simplifying Complex 3D Models with Sartorius Incucyte Live-Cell Analysis System
15:00 – 15:30	SACCMA AGM	
15:30 – 16:00	Break	Coffee / Tea
16:00 – 17:30	Session 3: Chairperson: Dr Marguerite Blignaut (US)	
16:00 – 16:15	*Wilfred Sibiya (AHRI/UKZN)	Investigating the sex differences in the immune response to Tuberculosis
16:15 – 16:30	*Davina-Nelson Apiyo (UCT)	Design of an engineered model for <i>in vitro</i> testing of biotherapeutics for treatment of bacterial vaginosis
16:30 – 16:45	*Sumari Marais (UP)	The influence of nanoparticle charge on potential radiosensitisation in cell monolayers and a spheroid model
16:45 – 17:00	*Alexa Rabeling (UCT)	BMP4 drives bipotent progenitor cell formation in a mouse model of neural tube development
17:00 – 17:15	*Rachel Brown (UCT)	Engineering mESC-derived neural organoids to study neurodevelopment and disease in Africa
17:15 – 17:30	*Charlene Fourie (UP)	Papaverine enhances radiation-induced cytotoxicity in lung- and breast cancer cell monolayers and spheroids
18:30 – 21:00	Posters and Wine	Die Stal
	Poster session and informal dinner	







21 October

TIME:	SESSION:	TOPIC:
08:00 - 08:45	Arrival & Registration	Coffee / Tea
08:45 - 09:00	Welcome and announcements	
9:00 – 10:15	Session 4: Chairperson: Dr Chontrelle Willemse (UWC)	
09:00 – 9:30	Invited Plenary Lecture:	
	Prof Adelina Rogowska-Wrzesinska, University of Southern Denmark	From Pluripotency to Function: Hepatic Organoids in Low-Shear 3D Cultures
09:30 – 09:45	Marguerite Blignaut (SU)	Utilizing mitochondrial networks as metabolic sensors in 3D models
09:45 – 10:00	Anine Crous (UJ)	Enhancing neural differentiation in 3D stem cell models using photobiomodulation: A tissue engineering approach
10:00 – 10:15	Alandi van Niekerk (NWU)	Development of an <i>in vitro</i> U87MG glioblastoma spheroid model for high-throughput drug screening
10:15 – 11:00	Break	Coffee / Tea
11:00 – 12:30	Session 5: Chairperson: Prof Pascaline Fru (WITS)	
11:00 – 11:30	Invited Plenary Lecture:	
	Dr Tracey Hurrel, Council for Scientific and Industrial Research/University of Pretoria	Advanced cell culture models of the liver: Biological capabilities, research context, and environmental resources
11:30 – 12:30	3-min Flash presentations:	
	 *Sima Jilanchi (NWU) *Collette Powers (SU) *Tasneem Farhad (Wits) *Amy van der Hoven (UCT) *Cara de Moura-Cunningham (UP) *Bethaba Shazi (SU) *Thulisa Mkatazo (UCT) *Tiron Rietkerk (NWU) *Hannes van Blerk (SU) *Nokulunga Mlaba (SU) 	
12:30 – 13:30	Lunch	







13:30 - 14:00 Invited Plenary Lecture: Prof Marie Arsenian Henriksson, Karolinska Institute, Sweden Metabolic Reprogramming by MYC inhibition as Precision Medicine in childhood Neuroblastoma and clear cell Renal Carcinoma A comparative analysis of senescence markers in chemotherapy-induced senescent 2D and 3D breast cancer models	13:30 – 15:30	Session 6: Chairperson: Dr Nireshni		
Prof Marie Arsenian Henriksson, Karolinska Institute, Sweden 14:00 – 14:15 *Lebogang Mashigo (UP) *Lebogang Mashigo (UP) *Unathi Ramashala (UP) 14:15 – 14:30 *Unathi Ramashala (UP) 14:15 – 14:45 *Divan Janse van Rensburg (SU) *Kate da Silva (Wits) *Precious Mulaudzi (UJ) *Precious Mulaudzi (UJ) *Karabo Mosiane (Wits) *Karabo Mosiane (Wits) 15:15 – 15:30 *Karabo Mosiane (Wits) *The development of an electrochemical biosensor for early detection of lipid peroxidation in neurodegenerative diseases Regeneration and repair: A novel biomimetic 3D-printed scaffold for personalised liver restoration post-trauma Synergistic green and near-infrared light therapy drives neuroectodermal differentiation in cerebral organoids 15:15 – 15:30 *Karabo Mosiane (Wits) Break Coffee / Tea 16:00-17:30 Session 7: Chairperson: Dr Beynon Abrahams (UFS) 16:01 – 16:15 *Aned Somaida (Philipps University of Marburg) Afolake Arowolo (SAMRC) Warel Alamasa) Upregulation of FAM111B promotes fibrosis and mitochondrial dysfunction in a cellular model of diabetic cardiomyopathy Anovel nose-to-brain drug delivery prediction model utilizing an in vitro-ex vivo combination Improved label-free metabolic imaging through automated isolation of endogenous fluorophores		Chellan (SAMRC)		
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17:00 – 17:15 *Kosie Kruger (NWU) *Kosie Kruger (NWU) *Mamello Mohale (University of Arkansas) *In intochondrial dysfunction in a cellular model of diabetic cardiomyopathy A novel nose-to-brain drug delivery prediction model utilizing an <i>in vitro</i> —ex <i>vivo</i> combination Improved label-free metabolic imaging through automated isolation of endogenous fluorophores	16:30 – 16:45	` '.'	·	
17:15 – 17:30 Mamello Mohale (University of Arkansas) model utilizing an <i>in vitro</i> – <i>ex vivo</i> combination Improved label-free metabolic imaging through automated isolation of endogenous fluorophores	16:45 – 17:00	Afolake Arowolo (SAMRC)	mitochondrial dysfunction in a cellular model of	
automated isolation of endogenous fluorophores	17:00 – 17:15	*Kosie Kruger (NWU)	1	
18:30 – 22:00 Gala Dinner La Pineta Restaurant	17:15 – 17:30	Mamello Mohale (University of Arkansas)	,	
<u> </u>	18:30 – 22:00	Gala Dinner	La Pineta Restaurant	







22 October

TIME:	SESSION:	TOPIC:
08:00 - 09:00	Arrival & Registration	Coffee / Tea
08:45 - 09:00	Welcome and announcements	
9:00-10:15	Session 8: Chairperson: Prof	
	Joji Mercier (UP)	
09:00 – 9:30	Invited Plenary Lecture:	
	Prof Mathieu Vinken, Vrije University Brussels	The European ONTOX project: ontology-driven and artificial intelligence-based repeated dose toxicity testing of chemicals for next generation risk assessment
9:30 – 09:45	Earl Prinsloo (RU)	Additive manufacturing of millifluidic devices for mammalian cell maintenance under perfusion conditions: A matter of printing scale
09:45 – 10:00	Marguerite Blignaut (SU)	Metabolic manipulation of a cardiac spheroid model to mimic insulin resistance associated with obesity
10:00 – 10:15	Divesha Essa (Wits)	Evaluation of anti-PSMA-functionalised PLGA- PEG nanoparticles in LnCap prostate cancer cells and 3D multicellular tumour spheroids
10:15 – 10:45	Break	Coffee / Tea
10:45-12:15	Session 9: Chairperson: Dr Tracey Hurrel (CSIR)	
10:45 – 11:15	Invited Plenary Lecture:	
	Prof Roan Louw, North-West University	Building mitochondrial disease models for Africa: iPSC-derived cell systems in action
11:15 – 11:30	Iman van den Bout (UP)	A new dawn: Vitalising translational oncology research in Africa with the help of advanced cell culture models
11:30 – 11:45	Chrisna Gouws (NWU)	The international explosion of new approach methodologies and the institutional and regulatory support thereof: How does it impact Africa?
11:45 – 12:15	15 Round table discussion Advanced Cell Models in Africa – The way forward	
12:15 – 14:00	Lunch & Closing Ceremony	
14:30 – 17:00	PI Discussion Forum	Stellenbosch (Venue to be confirmed)







Posters with flash talks:

1	*Sima Jilanchi (NWU)	Development of a ClinoStar™-based high-density spheroid model for multidrug- resistant small cell lung cancer
2	*Collette Powers (SU)	Development of a novel nanoparticle-based approach for enhanced antioxidant therapeutic efficacy in SH-SY5Y cell line
3	* Tasneem Farhad (Wits)	Development and characterization of a patient-derived liver organoid model of chronic HBV infection
4	*Nokulunga Mlaba (SU)	Establishment and characterization of a scaffold-free 3-dimensional human cardiomyocyte spheroid model
5	*Amy van der Hoven (UCT)	The role of retinoic acid in the formation of neural tube organoids
6	*Cara de Moura- Cunningham (UP)	Factors influencing the uptake of doxorubicin into BT-20 triple-negative breast carcinoma spheroids
7	*Bethaba Shazi (SU)	The combinatorial power of imaging modalities in rendering the Mycobacterium tuberculosis-autophagy niche in human lymph nodes
8	*Thulisa Mkatazo (UCT)	Modelling the early development of cartilage and bone in Mseleni Joint Disease using induced pluripotent stem cells
9	*Tiron Rietkerk (NWU)	Using a drug-resistant small cell lung cancer spheroid model to evaluate the anticancer potential of an ethanolic <i>Lessertia frutescens</i> extract
10	*Hannes van Blerk (SU)	Investigation of oxidative stress in an insulin resistant cardiac spheroid model

Posters:

1	*Kally Field (LIMC)	The effects of methamphetamine on the Blood-Brain Barrier of addicts and
I	*Kelly Fick (UWC)	recreational
		users: an <i>in vitro</i> study
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2	*Mukondeleli Mavhungu (NWU)	Development of an hTERT-HME1 spheroid model for breast cancer aetiology research
3	*Skyler Bosman (UP)	The effect of a carbimazole analogue on the cytotoxicity of paclitaxel in multidrug- resistant small cell lung cancer cells and spheroids
4	*Bernie Groenewald (SAMRC/SU)	Standardising spheroid cryosection: Is a one-approach fit the way to go?
5	*Mbalenhle Ntuli (SU)	Characterization of spatiotemporal autophagosome flux and its impact on the cognitive-motor function of a Fly model
6	*Jeanne Du Plessis	Unravelling cardiovascular differentiation: The effects of two growth serums
	(SU)	in a novel
		human ventricular cardiac spheroid model
7	*Bernice Monchusi	Advancing precision oncology: Patient-derived 3D spheroid models for
	(CSIR/Wits)	personalized
		drug screening in South African leukemia and ovarian cancer patients
8	*Keith Ncube (UP)	Understanding chemoresistance in TNBC spheroids: interlinked mechanisms
	, ,	and
		future directions
9	*Danielle Brink (SU)	Exploring the role of alphα-synuclein in an amyloid precursor protein (APP)
		neuronal injury model
10	*Anastacia Wakens (SU)	Developed biosynthesised silymarin silver nanoparticles exhibit
		biosafety and antioxidant efficacy in in vitro HepG2 cells







11	*Zanfre Meyer (SU)	Phytomedicinal-loaded polyphenol-rich oil nanoemulsions as targeted therapeutics for oxidative stress and neuroinflammation in HIV-associated neurocognitive disorders
12	*Jessica van Strijp (SU)	Evaluation of Green Synthesized Thymol Gold Nanoparticles for Therapeutic Protection Against Oxidative Stress in SH-SY5Y Cells
13	Beynon Abrahams (UFS)	Chemotherapeutic response in a 3D-MDA-MB 231 triple-negative breast cancer spheroid model
14	Charl Du Plessis (NWU)	Development and characterisation of a digital light processing-bioprinted 3D melanoma model
15	Khayelihle Makhathini (UWC)	The effect of HL2/3 cell paracrine factors (HIV) and alcohol on the in vitro blood-brain barrier model (bEnd5 cells)
16	Ndivhuwo Tshililo (SU)	Regulatory role of calcium/calmodulin-dependent protein kinase family in triple- negative breast cancer progression
17	Mamello Sekhoacha (UFS)	Establishing a cisplatin-resistant triple-negative breast cancer 3D spheroid model

^{*} Young Scientists