

# SOCIETY FOR ADVANCED CELL CULTURE MODELLING FOR AFRICA CONFERENCE 2023

9 - 11 October 2023 | Crista Galli Venue | Potchefstroom | South Africa

## | Program |

**Monday 9 October 2023**

**SACCMA Conference | Day ONE**

09:30 – 11:00	Delegate registration and coffee/tea and refreshments
10:00 – 10:40	<b>Organoid Interest Group Meeting</b>
11:00 – 11:15	Official opening and Welcome: Prof Chrisna Gouws   SACCMA Executive Committee Chair
<b>SESSION 1   CHAIR: Prof Chrisna Gouws</b>	
11:15 – 12:00	Keynote speaker: <b>Dr Lena Smirnova</b>   Johns Hopkins University   USA From MPS Research To International Society
12:00 – 12:15	Prof Iman van den Bout   Using Breast Cancer Organoids To Assess Drug Responses In An Underserved South African Patient Group
12:15 – 12:30	*Ms Adele Nel   A Breast Cancer-Derived Organoid Model Reveals How <i>In Vitro</i> Data Can Inform <i>In Vivo</i> Tumor Behavior
12:30 – 12:45	Poster Flash Talks <ul style="list-style-type: none"> <li>• *Me Naaziyah Abdullah   Establishing And Characterizing Colorectal Organoid Cultures From South African Patients</li> <li>• Dr Lara Contu   Development Of An iPSC-Derived Macrophage Model To Study Inflammatory Responses</li> <li>• *Miss Cayleigh de Sousa   The Effects Of Chemotherapy on Metastasis In Cervical Cancer Using A Personalized Medicine Approach</li> <li>• *Miss Madré Meyer   Investigating the Effects Of Senescence-Induced Treatment Resistance In Cervical Cancer Patients</li> <li>• Dr Brian Flepisi   The Effect Of Breast &amp; Lung Cancer Conditioned Media And Co-Culture Model On Brain Endothelial Cells</li> </ul>
12:45 – 13:30	Lunch
<b>SESSION 2   CHAIR: Prof Iman van den Bout</b>	
13:30 – 14:15	Keynote speaker: <b>Dr Mubeen Goolam</b>   University of Cape Town   SA Building The StemBryo: Defining The Biochemical And Physical Cues In Stem Cell Self-Organization



14:15 – 14:30	Dr Tracey Hurrell   Altering Cell Fate Transitions of Human iPSCs During Hepatic Lineage Specification
14:30 – 14:45	Dr Shivani Goolab   CRISPR-Cas9 Mediated Knockout Of NDUFS4 In iPSCs: A Model For Complex I Deficiency
14:45 – 15:00	Poster Flash Talks <ul style="list-style-type: none"> <li>• *Miss Kara van Zyl   Curcumin Green Gold Nanoparticles And Their Antioxidative Effects In Neuroprotection</li> <li>• *Miss Alandi van Niekerk   Investigating The Anticancer Potential Of <i>Sutherlandia Frutescens</i> In NCI-H69AR Cancer Mini-Tumors</li> <li>• Dr Khayelihle Makhathini   The Effect Of HL2/3 Cell Paracrine Factors On bEnd-5 Cells To Develop A Novel <i>In Vitro</i> HIV-BBB Model</li> <li>• Dr Chontrelle Willemse   The Inflammatory Blood Brain Barrier <i>In Vitro</i> Model</li> </ul>
15:00 – 15:30	<b>Panel Discussion:</b> Organoid research in Africa   Moderator: Prof Iman van den Bout
15:30 – 16:15	<b>Health Biolux Posters and Cocktails Session</b>
<b>SESSION 3   CHAIR: Dr Tracey Hurrell</b>	
16:15 – 17:00	Keynote speaker: <b>Dr Stefanie Klima</b>   University of Pretoria   SA Stem Cell-Based Models To Mimic Neurodevelopment And Neuronal Signalling
17:00 – 17:10	Industry talk   Merck
17:10 – 17:30	<b>Working Group 1 meeting – ClinoStar Users</b>
18:30 – 22:00	<b>Merck Informal Social Function – Die Local</b>

## Tuesday 10 October 2023

### SACCMA Conference | Day TWO

08:30 – 09:00	Tea/coffee
<b>SESSION 4   CHAIR: Prof Pradeep Kumar</b>	
09:00 – 09:45	Keynote speaker: <b>Prof Daniel Nieto</b>   Maastricht University   Netherlands Advanced Light-Based Bioprinting Technologies for Tissue Engineering
09:45 – 10:00	Prof Lissinda Du Plessis   Bioprinting In 96-Wells Using An Extrusion-Based Printing Method For Drug Screening Applications
10:00 – 10:15	*Ms Jaime De Carvalho   Validation And Characterization Of A Co-Culture Model Of The Blood Brain Barrier
10:15 – 10:30	*Miss Mandy Naude   Evaluating GPCR Expression In 2D And 3D Breast Cancer Cell Models
10:30 – 10:45	*Miss Ranae Lindeque   A Cellular Model For Studying Metabolic Adaptations Of Metastatic Cancer



10:45 – 11:15	Tea/coffee
<b>SESSION 5   CHAIR: Dr Daniel Nieto</b>	
11:15 – 12:00	Keynote speaker: <b>Prof Pradeep Kumar</b>   University of the Witwatersrand   SA Biomaterial Prototypes For Effective Neuroregeneration following Traumatic Neural Injuries
12:00 – 12:15	*Miss Alandi van Niekerk   <i>Sutherlandia frutescens</i> Treatment Potential In A Resistant Small Cell Lung Cancer Mini-Tumor Model
12:15 – 12:30	*Mr Barend Groenewald   Establishment Of A H9c2 Spheroid Model Using Ultra-Low Attachment Plates
12:30 – 13:15	<b>2023 Annual General Meeting of SACCMA</b>
13:15 – 14:00	Lunch
14:00 – 17:00	<b>Workshops   Separations</b>
18:30 – 22:00	Conference Gala Dinner – Dampad Dining Hall

### Wednesday 11 October 2023

#### SACCMA Conference | Day THREE

08:30 – 09:00	Tea/coffee
<b>SESSION 6   CHAIR: Dr Lena Smirnova</b>	
09:00 – 09:45	Keynote speaker: <b>Dr Simone Sidoli</b>   Albert Einstein College of Medicine   USA
09:45 – 10:00	Prof Krzysztof Wrzesinski   Clinostar Hypoxia Unit Creates Physiological Levels Of Oxygen For <i>In Vivo</i> Mimetic 3D Constructs
09:45 – 10:30	Dr Marguerite Blignaut   Development Of A Novel 3D-Cardiovascular Model To Investigate Mitochondrial Function
10:30 – 10:45	Prof Chrisna Gouws   Cytotoxic Activity Of <i>Lessertia frutescens</i> In Chemosensitive Small Cell Lung Cancer Mini-Tumors
10:45 – 11:15	Tea/coffee
<b>SESSION 7   CHAIR: Dr Marguerite Blignaut</b>	
11:15 – 11:30	Prof Anne Mercier   Effects Of <i>In Silico</i> -Designed Sulphamoylated Spindle Disruptors On The Haematopoietic System <i>Ex Vivo</i>
11:30 – 11:45	Dr Paul Bartels   Convergence Cell-culture Research For Conserving Wildlife And Biodiversity
11:45 – 12:30	<b>Panel Discussion:</b> Planning a 3D model study   Moderator: Prof Chrisna Gouws
12:30 – 12:45	Industry talk   Separations
12:45 – 14:00	<b>Separations Award Ceremony Lunch and Official Closing</b>

\* **Young Scientist**

