

**Center of Excellence for Spatial Multi-Omics research in Africa (CESORA),  
Inaugural meeting and workshop  
Durban, South Africa, November 5 - 9, 2023  
*Introduction to Spatial multi-Omics research***

<b>DAY 1</b>	
<b>Sunday November 5, 2023</b>	
14:00- 18:00	Arrival and meeting registration
19:00-21:00	<b>Dinner</b>
<b>DAY 2</b>	
<b>Monday November 6, 2023</b>	
08:30-09:00	Welcome remarks and course introduction. <i>Professor Zaza Ndhlovu (Director CESORA), AHRI</i>
09:00-09:45	Introduction to Spatial Biology <i>Professor Zaza Ndhlovu, AHRI</i>
09:45-10:30	Fundamentals of Immunohistochemistry <i>Professor Adrie Steyn, AHRI</i>
10:30-11:00	<b>Tea break</b>
11:00-11:45	ISH-IHC (RNA-Protein Co-Detection) <i>Dr Kathleen Bushman-Sahay, OHSU</i>
11:45-12:15	Discussion, questions, and answers
12:15-13:15	<b>Lunch</b>
13:15-16:00	HIS-IHC practical session <i>Trevor Khaba and Sifundo (HPP, UKZN)</i>
<b>DAY 3</b>	
<b>Tuesday November 7, 2023</b>	
09:00- 09:45	Basic microscopy and data analysis <i>Dr Mike Reiche and Caron Jacobs (AMI, UCT)</i>
09:45-10:45	Imaging technologies and applications <i>Dr Mike Reiche and Caron Jacobs (AMI, UCT)</i>
10:45-11:15	<b>Tea break</b>
11:15-12:30	Imaging practical session <i>Dr Mike Reiche and Caron Jacobs (AMI, UCT)</i>
12:30-13:30	<b>Lunch</b>
13:30-14:30	Next generation sequencing fundamentals <i>Illumina team</i>
14:30- 15:30	Next generation sequencing data analytics pipeline <i>Illumina team</i>
15:30- 16:30	Practical session/Lab tour in groups <i>Illumina team</i>
<b>DAY 4</b>	

**Center of Excellence for Spatial Multi-Omics research in Africa (CESORA),  
Inaugural meeting and workshop  
Durban, South Africa, November 5 - 9, 2023  
Introduction to Spatial multi-Omics research**

<b>Wednesday November 8, 2023</b>	
09:00-10:00	A route into spatial multi-omics: from the past to the future Dr Aida Freire Valls (NanoString)
10:00- 11:00	The GeoMx Digital Spatial Profiler (DSP): principles and applications Dr Aida Freire Valls (NanoString)
11:00-11:30	<b>Tea break</b>
11:30-12:30	Planning a GeoMx experiment: protocol review for slide preparation and morphology marker guidelines Dr Vasileios Kampanis (NanoString)
12:30-13:30	<b>Lunch</b>
13:30-16:00	The GeoMx Digital Spatial Profiler (DSP) Practical session: slide preparation NanoString team and CESORA team members
<b>DAY 5 Thursday November 9, 2023</b>	
08:30-11:30	The GeoMx Digital Spatial Profiler (DSP) Practical session: finish slide preparation NanoString team and CESORA team members
11:30-12:30	The GeoMx Digital Spatial Profiler (DSP) Practical session: ROI selection at the instrument NanoString team and CESORA team members
12:30-13:30	<b>Lunch/ Time for project consultation with the NanoString team</b>
13:30-15:00	NGS sequencing and analysis of GeoMx DSP data Illumina team/Separations team
15:00-16:00	Wrap up and certificate of attendance presentation.
19:00	<b>Group dinner</b>