

**WORKSHOP ON TRAINING AND MENTORING AFRICAN SCIENTISTS IN
STEM CELL AND REGENERATIVE MEDICINE RESEARCH**

04th to 06th August 2014

at

African Academy of Sciences, Karen, Nairobi, Kenya

PROGRAMME

DAY 1: Monday 4th August 2014		
TIME	EVENT	SPEAKER/FACILITATOR
8.00am – 8.30am	REGISTRATION	AAS SECRETARIAT
8.30am – 9.15am	OPENING CEREMONY	
	Introductory Remarks	Prof. Berhanu Abegaz Executive Director, AAS & Coordinator, TWAS-ROSSA
	Welcome Remarks	Dr. Moses Rugutt Commission Secretary, NACOSTI
	Remarks from Chairman Kenya National Academy of Sciences	Prof. Raphael Munavu
	Remarks from India Academy of Sciences	Prof. Dorairajan Balasubramanian
	Remarks from Director Kenya Medical Research Institute	Prof. Solomon Mpoke
	Remarks from Director Institute of Primate Research	Dr. Ngalla Jillani
	Keynote Address	Prof. Jacob Kaimenyi Cabinet Secretary of Education
	Overview of Workshop Programme/Long-term Objectives	Dr. Marianne Mureithi Chair, Local Organising Committee
Session 1	Chair : Prof. Dorairajan Balasubramanian	
9.15am – 9.45am	Stem Cell Research in Kenya	Prof. Omu Anzala Director, KAVI-Institute of Clinical Research
9.45am – 10.15am	Translating Stem Cell Research in Africa into Therapy: A Muhimbili Experience	Dr. Denis Russa Muhimbili University, Tanzania
10.15am – 10.45am	TEA BREAK & MEDIA BRIEFING	
Session 2	Chair : Prof. Susan Kidson	
10.45am – 11:15am	Stem Cell Research and Clinical Applications in India	Prof. Dorairajan Balasubramanian Director of Research, L.V.Prasad Eye Institute, Hyderabad
11.15am – 11.45am	Induced Pluripotent Stem Cells: Challenges and Opportunities	Dr. Anjali Shiras National Centre for Cell Science (NCCS); Pune; INDIA

11.45am – 12.15pm	Wnt/beta-catenin signaling in development and diseases	Prof. José Garcia Abreu Institute of Biomedical Sciences of the Federal University of Rio De Janeiro
12.15pm – 12.35pm	TBC	Dr Christoff Pauw Stellenbosch Institute for Advanced Study (STIAS)/ Stellenbosch University
12.35pm – 1.00pm	Question & Answer Session (for Session 1 & 2)	
1:00pm – 2:00pm	LUNCH	
Session 3	Chair: Prof. José Garcia Abreu	
2.00pm – 2.30pm	Repairing of knee injury by MSCs in OA patients	Dr.Hiba BadrEldin Khalil Ahmed Alneelain University-Sudan
2.30pm – 3.00pm	Use of neural crest stem cells for treatment of corneal blinding diseases	Prof. Susan Kidson University of Cape Town
3.00pm-3.30pm	Biotechnology-based technologies and opportunities in stem cell research for health	Dr. Michael Ongecha Centre for Global Health Research, KEMRI/University of Mexico Project
3.30pm-5.00pm	Biodiversity Tour (Giraffe Centre)	
5.30pm-7.00pm	Cocktail Reception	
DAY 2: Tuesday: 5th August 2014 at KAVI-Institute of Clinical Research		
Session 4	Series of Lectures and Hands-on Experiments Chair : Prof. Omu Anzala	
8.30am- 9.00am	The regenerative capacity of pancreatic duct ligated tissues: implication for islet cell therapy	Dr. Venant Tchokonte-Nana Stellenbosch University
9.00am – 9.30am	Setting up and running a stem cell laboratory	Prof. Susan Kidson University of Cape Town
9.30am – 10.00am	From Embryos as models for Embryonic development and regeneration	Prof. Fabio Almeida Mendes Instituto Estadual do Cérebro Paulo Niemeyer, Rio de Janeiro
10.00am – 10.30am	Generation, Handling and Maintenance of Induced pluripotent Stem Cells	Dr. Anjali Shiras National Centre for Cell Science (NCCS); Pune; INDIA
10.30am – 10.45am	TEA BREAK	
10.45am -11.00am	KAVI-ICR Lab Orientation	
11.00am – 1:00pm	Lab Session Track 1 (Part 1): Dr. Anjali Shiras National Centre for Cell Science (NCCS); Pune; INDIA) <u>Characterization of Stem Cells and Cancer Stem Cells</u>	Lab Session Track 2 (Part 1): Prof. Fabio Almeida Mendes (Instituto Estadual do Cérebro Paulo Niemeyer, Rio de Janeiro) <u>From Embryos as models for Embryonic development and regeneration</u>

1.00pm -2.00pm	LUNCH	
Session 5	Chair : Dr. Venant Tchokonte-Nana	
2:00pm – 3:00pm	Lab Session Track 1 (Part 2): Dr. Anjali Shiras National Centre for Cell Science (NCCS); Pune; INDIA)	Lab Session Track 2 (Part 2): Prof. Fabio Almeida Mendes (Instituto Estadual do Cérebro Paulo Niemeyer, Rio de Janeiro)
3:00pm-3:45pm	Lab Practical Feedback	Group representative selected from mentees
		Dr. Anjali Shiras and Prof. Fabio Almeida Mendes
3:45pm – 4:00pm	Closing Remarks	Prof. Omu Anzala
4:00pm – 4:30pm	TEA BREAK	
DAY 3: Wednesday 6th August 2014 Mentor: Mentee Session		
	Presentations from mentees	
Session 6	Chair : Dr.Hiba BadrEldin Khalil Ahmed & Dr. Atunga Nyachieo	
8.30am – 8.50am	Determining the role of a FAM111B mutation in Hereditary Fibrosing Poikiloderma using induced pluripotent stem cells	Gumede Dimakatso University of Cape Town
8.50am – 9.10am	Regenerative medicine in treatment of burns	Dr Chidzwondo Farisai University of Zimbabwe
9.10am – 9.30am	Conjunctival regeneration to reverse chronic cicatrizing diseases like trachoma	Dr. Ababora Jafer Kedir Jimma University, Ethiopia
9.30am – 9.50am	Stem cells and Cancer	Ms. Lucy Macharia KAVI-Institute of Clinical Research/University of Nairobi
9.50am -10.10am	Anti-diabetic plants and islet regeneration in experimental Diabetes	Ms. Claire N Kimani Institute of Primate Research (IPR)
10.10am – 10.30am	Cell based therapies in treatment and management of cancers	Ms. Dorcas Wachira Kenya Medical Research Institute (KEMRI)
10.30am – 11.00am	TEA BREAK	
Session 7	Feedback from Mentors Chair : Prof. Berhanu Abegaz	
11.00am - 11.15am	India	Prof. Dorairajan Balasubramanian Director of Research, L.V.Prasad Eye Institute, Hyderabad
11.15am - 11.30am		Dr. Anjali Shiras National Centre for Cell Science (NCCS); Pune; INDIA
11.30am - 11.45am	Brazil	Prof. José Garcia Abreu Instituto Estadual do Cérebro Paulo Niemeyer, Rio de Janeiro

11.45am – 12.00pm		Prof. Fabio Almeida Mendes
12.00pm-12:15pm	South Africa	Dr. Venant Tchokonote-Nana Stellenbosch University
12.15pm-12:30pm		Prof. Susan Kidson University of Cape Town
12:30pm – 12.45pm	Republic of the Sudan	Dr.Hiba BadrEldin Khalil Ahmed Alneelain University-Sudan
12.45pm -2.00pm	Lunch	
Session 8	Round Table Discussions Chair: Dr. Christoff Pauw	
2.00pm – 3.00pm	Ethical Issues in Stem Cell Research	Dr Christine Wasunna (KEMRI), Prof. Walter Jaoko (KAVI-Institute of Clinical Research/University of Nairobi) and Dr. Christoff Pauw (STIAS/ Stellenbosch University)
	Guidelines for Stem Cell Research in Africa	
3.00pm– 3:30pm	Closing Remarks and How to Expand and Promote Stem Cell Research in Africa	Prof. Berhanu Abegaz (Executive Director, AAS & Coordinator, TWAS-ROSSA) & Dr. Marianne Mureithi (Chair, Local Organising Committee, KAVI-Institute of Clinical Research/University of Nairobi)
3.30pm – 3:45pm	Award Certificates of Attendance to Participants	Mrs. Noel Abuodha Deputy Chair, Local Organising Committee Kenya National Academy of Sciences (KNAS)
3.45pm – 4.00pm	Vote of thanks	Prof. Berhanu Abegaz (Executive Director, AAS & Coordinator, TWAS-ROSSA)
4:00pm – 5:00pm	Farewell Tea and Departure	

- TBC (TO BE CONFIRMED)

RAPPORTEURS

- **Chief Rapporteur** : Mosab Ali Awad E. Mohammed
- **Rapporteurs Day 1** : Farisai Chidzwondo & Clare Njoki Kimani
- **Rapporteurs Day 2** : Dimakatso Bertha Gumede & Lucy Macharia
- **Rapporteurs Day 3** : Dorcas Wachira & Jafer Kedir Ababora