



International Centre for Genetic
Engineering and Biotechnology



National Commission for Science,
Technology and Innovation



Alliance for African Partnership
MICHIGAN STATE UNIVERSITY

PROGRAMME

Building institutional capacities on genetic engineering and biotechnology research in African universities and research institutions

**Egerton University, ARC Hotel,
16th-17th, August, 2023**



Organizing Institution/Department
Egerton University and
Michigan State University, USA

Contact Information

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Background and context

The two-day workshop, scheduled for August 16-17, 2023, holds regional significance as it sets the stage for the upcoming International Centre for Genetic Engineering and Biotechnology Regional Research Centre (ICGEB RRC) to be established at Egerton University, Kenya. This workshop, supported by the Alliance for African Partnership (AAP) through the 2022 Transforming Institutions Strategic Grants involving Egerton University and Michigan State University, USA, will bring together key stakeholders and experts to discuss the objectives of the ICGEB RRC and its research management structures.

The primary objectives of this workshop are to create awareness about the establishment of the ICGEB RRC at Egerton University and to develop comprehensive plans and programs for the RRC's research management structures and systems. By creating awareness among stakeholders, we aim to garner support and foster collaborations that will ensure the successful implementation and impact of the ICGEB RRC in addressing regional and global challenges.

The objective of developing plans and programs for the research management structures will be crucial in coordinating and facilitating research activities, resource allocation, and communication among researchers, partners, and stakeholders. Through engaging discussions and knowledge exchange, we seek to design effective and efficient research management frameworks that will maximize the ICGEB RRC's potential in driving advancements in genetic engineering and biotechnology research.

The workshop will offer a unique platform for African universities and research institutions to enhance their knowledge, skills, and expertise in genetic engineering and biotechnology research. By strengthening research capacities in these institutions, we can foster innovation, address regional and global challenges, and contribute to sustainable development. This capacity-building effort aligns with the overarching goal of transforming institutions and society through partnerships in knowledge creation, research, innovations, and technology in a global space.

During the workshop, participants will engage with leading experts, researchers, and practitioners in the field of genetic engineering and biotechnology. The workshop will be in hybrid mode with the sessions on August 16, 2023, covering an overview of the ICGEB RRC, research management structures, joint research funding proposals, and capacity-building for institutional Managers and Scientists. On August 17, 2023, the focus will be on research and training

infrastructure and management, refining research plans and programs, and implementation strategies and timelines.

Workshop Objectives:

- a) Create awareness and understanding of the ICGEB RRC and its objectives among workshop participants.
- b) Develop plans and programs for the research management structures and systems of the RRC.
- c) Conduct capacity-building workshops for institutional managers and scientists to benefit from the ICGEB RRC infrastructure.
- d) Foster collaboration, knowledge exchange, and networking among workshop participants to enhance the implementation of the ICGEB RRC.

Programme

Day 1: August 16, 2023

MC: Prof. Nancy Mungai, Director, Research and Extension

| TIME | ACTIVITY DESCRIPTION | RESPONSIBILITY |
|---------------------|---|--|
| 8:00 am - 9:00 am | Arrivals and Registration | Dr. Mercy Wamalwa and Dr. Lelmen |
| 9:00 am - 10:30 am | Opening Remarks and Overview of the Workshop Objectives and Agenda Opening Remarks <i>by Egerton University Vice Chancellor, Prof. Isaac O. Kibwage</i> | DVC (AA) Prof. B. O. Aduda |
| | Remarks <i>by Prof. Walter O. Oyawa, Director General, NACOSTI, Kenya</i> | |
| | Remarks <i>by Dr. Lawrence Banks, Director General, ICGEB, Italy</i> | |
| | Keynote Speaker 1: Importance of Capacity Building in Genetic Engineering and Biotechnology, <i>by Prof. Ramesh V. Sonti, Director ICGEB New Delhi India</i> | |
| | Keynote Speaker 2: New biotechnological tools and Strategies: emerging perspectives and Challenges <i>by Prof. Guo-Qing Song, Professor and Associate Director, Plant Biotechnology Resource & Outreach Center, Michigan State University, USA</i> | |
| 10:30 am - 11:00 am | Session 1 - Creating Awareness of the ICGEB RRC | Prof. Nancy Mungai, Director of Research and Extension |
| | Presentation 1: Introduction to the ICGEB RRC and its Significance <i>by Prof. Josiah Omolo</i> | |
| | Presentation 2: The Roadmap for the Establishment of ICGEB RRC in Kenya <i>by Prof. Josiah Omolo</i> | |
| | Q&A and Discussion | |
| 11:00 am - 11:15 am | GROUP PHOTO AND HEALTH BREAK | |
| 11:15 am - 1:00 pm | Session 2 - Developing Research Management Structures and Systems | Dr. John Nduko, Associate Dean, Faculty of Agriculture |
| | Presentation 3: Establishing Research Groups and Collaborations, <i>by Dr. Shams Yazdani, Group Leader at International Centre for Genetic Engineering and Biotechnology (ICGEB) India</i> | |

| TIME | ACTIVITY DESCRIPTION | RESPONSIBILITY |
|-------------------|--|--|
| | Presentation 4: Experiences from International AIDS Vaccine Initiative, “Strengthening Capacity for HIV Vaccine & Biomedical Prevention Research: ADVANCE LDP program <i>by Dr. Benard Kulohoma, Director, Organizational Capacity Development ADVANCE, International AIDS Vaccine Initiative (IAVI), Kenya</i> | |
| | Presentation 5: Ethical Considerations and Regulatory Compliance, <i>by Dr. Roy Mugiira, CEO, National Biosafety Authority</i> | |
| | Q&A and Discussion | |
| 1:00 pm - 2:00 pm | LUNCH BREAK | |
| 2:00 pm - 3:30 pm | Session 3 - Joint Research Funding Proposal Development | Dr. Stephen Oduor, Dean of Science |
| | Presentation 6: Overview of Research Funding Opportunities, <i>by Prof. Patrick Okori, RUFORUM Executive Secretary</i> | |
| | Presentation 7: Kenya-China Collaboration Experience, <i>by Prof. Xiue Wang, NAU China</i> | |
| 3:30 pm - 3:45 pm | HEALTH BREAK | |
| 3:45 pm - 5:00 pm | Session 4 - Capacity Building Workshops for Institutional Managers and Scientists | Prof. Bockline Bebe, Professor of Animal Science |
| | Presentation 8: Regional Quality Assurance and Standards framework for research and training in East Africa, <i>by Dr. Salome Guchu, Principal Innovations Officer, IUCEA</i> | |
| | Presentation 9: Lessons from Africa Centres of Excellence II (ACE II), <i>by Centre leader CESAAM Egerton University, Prof. George Owuor</i> | |
| | Q&A and Wrap-up | |
| | Day 1 Adjournment | |

Day 2: August 17, 2023

MC: Dr. Joseph Mafurah

| TIME | ACTIVITY DESCRIPTION | RESPONSIBILITY |
|---------------------|--|--|
| 8:00 am - 9:00 am | Arrivals and Registration | Dr. Mercy Wamalwa and Dr. Elijah Lelmen |
| 9:00 am - 9:15 am | Recap of Day 1 and Agenda for Day 2 <i>by Dr. Miriam Charimbu</i> | |
| 9:15 am - 10:30 am | Session 5 - Research and Training Infrastructure and Management | Prof. Joshua Ogendo, Principal, Nakuru City Campus |
| | Building Robust Institutional Capacities for Research and Training for Sustainable Development <i>by Dr. Evelyn Nguku, Capacity Building Specialist, ICIPE.</i> | |
| | Q&A and Feedback | |
| 10:30 am - 10:45 am | HEALTH BREAK | |
| 10:45 am - 1:00 pm | Session 6 - Refining Research Plans and Programs | Prof. George Owuor, Centre Leader CESAM |
| | Group Discussions on Strengthening Research Areas and Priorities | |
| | Developing Action Plans | |
| | Q & A and Discussions | |
| 1:00 pm - 2:00 pm | LUNCH BREAK | |
| 2:00 pm - 4:00 pm | Session 7 - Implementation Strategies and Timelines | Prof. Liu Gaoqiong, Professor, Crop Sciences and Biotechnology |
| | Presentation 10: Implementation Framework and Milestones <i>by Prof. Josiah Omolo</i> | |
| | Presentation 11: Feed the Future Global Biotech Potato Partnership: Late Blight Resistant Potatoes, <i>by Prof. David Douches, Michigan State University, USA</i> | |
| | Q & A and Discussions | |
| 4:00 pm - 4:15 pm: | HEALTH BREAK | |
| 4:15 pm - 5:00 pm: | Summary of Key Takeaways and Next Steps | |
| | Closing Remarks and Acknowledgments, <i>by DVC APD Prof. Richard Mulwa</i> | |

Participant Benefits:

- Gain insights into the ICGEB RRC and its research focus.
- Collaborate with experts and peers in the field of genetic engineering and biotechnology.
- Contribute to the development of research management structures and systems of the ICGEB RRC.
- Enhance knowledge and skills through capacity-building from the workshop.

Workshop Registration and Participation:

- Registration is free but required.
- **Participation link:** <https://egerton-ackee.zoom.us/j/98429894066?pwd=L05Bbl0vMzZwcmNVT1BVNlcrSTd6UT09>
Meeting ID: 984 2989 4066
Passcode: 569327

Important Dates:

- Registration Deadline: 15th August 2023
- Workshop Dates: 16-17th August 2023

Sponsorship

Alliance for African Partnership (AAP) the 2022 AAP Transforming Institutions Strategic Grants

