# NAPRECA - COMSTECH Summer School

Theme “**Phytomedicine - from the bush to the shelf**”

**31st October – 4th November 2022**

## Online and at the Faculty of Science and Technology, Chiromo Campus, University of Nairobi

## Nairobi, Kenya

# Day 1: 31st October 2022

**Registration**

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| **Time** | **Activity** | **Facilitators** |
| 08:00 - 08:30 | Arrival & Registration of Participants | Postgraduate students |

**Opening Ceremony**

Venue: Board Room, Faculty of Science and Technology

**Chair: Dr. Catherine Lukhoba, Chair, NAPRECA-K**

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| **Time** | **Institution** | **Speaker** |
| 08:30 – 10:30 | **University of Nairobi**  **Heliopolis University for Sustainable Development**  **NAPRECA, ISP, ICCBS**  **Signing of MoUs** | Representatives of institutions invited |
| 09:40 – 09:45 | **Group Photo** | |
| 09:45 – 10:15 | **Tea break** | |

**Session 1**

**Venue:** Board Room, Faculty of Science and Technology, University of Nairobi

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| **Time** | **Activity/Speaker** | **Moderator** |
| 10:15 – 11:15 | **Keynote Address: Recent Discoveries in Natural Product Chemistry**  Prof. Dr. M. Iqbal Choudhary  Director, ICCBS, University of Karachi Coordinator General, COMSTECH | Dr. Solomon Derese |
| 11:15 – 11:30 | Discussion | Prof. Leonidah Kerubo |
| 11:30 – 13:00 | Prof. Dr. M. Iqbal Choudhary and ICCBS Team  Collaboration with ICCBS (MoU NARECA/ICCBS) | Prof. Francis Mulaa  Prof. Robert Byamukama  Prof. Sameh F. S. AbouZid |

**13:00 – 14:00, Lunch break, Chiromo Campus Club**

**Training Session 2**

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| **Time** | **Activity/Facilitator** | **Moderators** |
| 14:00 – 17:00 | **Dr. Catherine Lukhoba**  Botany – Identification of plants, Key to species | Dr. Judith Odhiambo  Dr. Catherine Kitonde |

**18:00 – 21:00 Workshop Dinner/Mixer**

# Day 2: 1st November 2022

**Session 3**

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| **Time** | **Activity/Speaker** | **Facilitators** |
| 09:00 – 09:45 | **Dr. Jack Githae**  How to identify traditional medicinal for development of medicine (Ethnobotany/marketed plants) | Prof. Hamisi M. Malebo |
| 09:45 – 10:30 | Discussion |  |
| 10:30 – 11:00 | Tea break |  |
| 11:00 – 11:30 | **Dr. Solomon Derese**  Harnessing natural products value chains for industry |  |
| 11:30 – 12:30 | *In vitro*/ *In vivo* test to validate medicinal plants | IPR/KEMRI/Vet labs |
| 12:30 – 13:00 | Discussion | TBD |

**13:00 – 14:00, Lunch break, Chiromo Campus Club**

**Training Session 4**

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| **Time** | **Activity** | **Facilitators** |
| 14:00 – 14:30 | **Dr. Yan Wang**  Phytochemistry and Pharmacology studies on *Schefflera* genus | TBD |
| 14:30 – 14:45 | Discussion |  |
| 14:45 – 15:15 | **TBA**  Products from sea weeds | TBD |
| 15:15 – 15:30 | Discussion |  |
| 15:30 – 16:00 | **Dr. Mohamed Sayed**  ATOS Pharma & SEKEM Therapeutic Herbs Portfolio |  |
| 16:00 – 16:30 | Discussion |  |
| 16:30 – 17:00 | **Prof. Dr. Sameh AbouZid**  Production and Manufacturing of Medicinal Plants: Challenges and Opportunities |  |

# Day 3: 2nd November 2022

**Training Session 5**

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| **Time** | **Activity** | **Facilitators** |
| 09:00 – 09:45 | **EcoFix**  Products from *Croton megalocarpus* | Dr. Beth Ndunda |
| 09:45 – 10:30 | Discussion |  |
| 10:30 – 11:00 | Tea break |  |
| 11:00 – 11:30 | **Dr. Solomon Derese**  Value addition to Vernonia (*Linzia*) oil |  |
| 11:30 – 11:45 | Discussion |  |
| 11:30 – 12:30 | **Dr. Paul Tanui**  Hair lotions from Natural products |  |
| 12:30 – 12:45 | Discussion |  |

**13:00 – 14:00, Lunch break**

**Training Session 6**

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| **Time** | **Activity** | **Facilitators** |
| 14:00 – 17:00 | Visit to a botanic garden | Dr. Catherine Lukhoba |

# Day 4: 3rd November 2022

**Session 7**

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| **Time** | **Activity** | **Facilitators** |
| 09:00 – 09:45 | **Prof. Hamisi M. Malebo**  Covidol – A natural Remedy for Covid 19 |  |
| 09:45 – 10:00 | Discussion |  |
| 10:00 – 10:30 | Tea break |  |
| 10:30 – 11:00 | **Prof. Leonidah Kerubo**  Biopesticides |  |
| 11:00 – 11:15 | Discussion |  |
| 11:15 – 11:45 | **Prof. Dr. Omar Sabry**  Natural Products in Modern Medicine |  |
| 11:45 – 12:00 | Discussion |  |
| 12:00 – 12:45 | Phytomedicine from Uganda or Cameroon or DRC or any other NAPRECA member country | TBD |
| 12:45 – 13:00 | Discussion |  |

**13:00 – 14:00, Lunch break, Chiromo Campus Club**

**Session 8**

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| **Time** | **Activity** | **Facilitators** |
| 14:00 – 14:45 | **Prof. Kinoti**  IPR |  |
| 14:45 – 15:00 | Discussion | Prof. Francis Mulaa |
| 15:00 – 15:30 | **Prof. Munyoki**  Natural Products business model/value chain |  |
| 15:30 – 15:45 | Discussion | Dr. Solomon Derese |
| 15:45 – 16:30 | **Dr. Mitch Medina and Team**  Phytomedicine business – The case of CareVid Immune Booster |  |
| 16:30 – 17:00 | Discussion | Dr. David Sujee |

**Day 5: 4th November 2022**

**Session 9**

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| **Time** | **Activity** | **Facilitators** |
| 09:00 – 10:30 | **Prof. Abiy Yenesew**  NMR for identifications of chemical markers of phytomedicine |  |
| 10:30 - 11:00 | Open Discussion as Tea/Coffee being served | Catherine/Kerubo |
| 11:00 – 12:00 | **Prof. Dr. Syed Ghulam Musharraf**  Metabolomic tools for profiling/fingerprinting of phytomedicines | Prof. Francis Mulaa |

**Session 10**

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| **Time** | **Activity** | **Facilitators** |
| 14:00 – 16:00 | **Prof. Anthony Gachanja**  GC/MS and LC/MS for identifications of chemical markers and profiling of phytomedicine |  |
| 16:00 - 17:00 | **Tea/Coffee Break and Discussion** | |
| 17:00 – 17:30 | **Closing Carmony and Award of Certificates** | |