

**UNIVERSITY OF NAIROBI**  
**COLLEGE OF BIOLOGICAL AND PHYSICAL SCIENCES**

**SCHOOL OF BIOLOGICAL SCIENCES**  
**VIRTUAL M.Sc. & PhD PROPOSAL PRESENTATION**  
**SEMINAR**

**17<sup>th</sup> – 18<sup>th</sup> NOVEMBER 2020**

**SCIENTIFIC PROGRAM**

## DAY 1 TUESDAY, NOVEMBER 17<sup>th</sup> 2020

08:00 – 08:20	<b>ONLINE LOGIN &amp; ADMISSION:</b>
08:20 – 08:30	<b>Welcome remarks:</b> Chairman PSC & Seminar Coordinator(Dr. David Odongo)
08:30 – 08:40	<b>Welcome address :</b> Director School of Biological Sciences (Dr. Catherine Lukhoba)
08:40 – 08:50	<b>Welcome address and official opening session :</b> Principal CBPS (Prof. J. Mulaa)
<b>SESSION 1 CHAIR: Dr. Robert Chira</b>	<b>RECORDING:</b> Dr. Abigail Ouko & Dr. Samuel Kiboi
09:00 – 09:20	<b>PRESNTATION 1: Cynthia Mumbua Mutinda:</b> "Sykes' monkeys ( <i>Cercopithecus albogularis</i> ) behavioral responses to anthropogenic activities in Ololua forest" (M.Sc. Biology of Conservation)
09:20 – 09:40	<b>PRESNTATION 2: Anthony Kiprop Rutto:</b> "Comparison of Pathogens of Milkfish, <i>Chanos chanos</i> (Forsskål, 1775) in Culture and Capture Fisheries at the Kenyan coast." (M.Sc. Hydrobiology - Aquaculture)
09:40 – 10:00	<b>PRESNTATION 3: Sheila Kemboi:</b> "Development of a rapid and efficient DNA-based method to detect and quantify adulterations in Kenyan Pishori rice." (M.Sc. Genetics)
10:00 – 10:20	<b>PRESNTATION 4: Fiona Kinya:</b> "Assessment of herbivory in the malaria vector, <i>Anopheles funestus</i> in Baringo and Kilifi counties, Kenya." (M.Sc. Parasitology)
10:20 – 10:40	<b>PRESNTATION 5: Kipsang Gilbert:</b> "Response of wheat cultivars to arbuscular mycorrhizae under copper Deficiency areas in Narok north sub-county."(M.Sc. Microbiology)
10:40 – 10:50	<b>BREAK (10 MINUTES)</b>
<b>SESSION 2 CHAIR: Prof. Agnes Muthumbi</b>	<b>RECORDING:</b> Dr. Eunice Onyango & Dr. Peter Wachira
10:50 - 11:20	<b>PRESNTATION 6: Susan Njuguini Kabacia Mwai:</b> "Phylogenetic diversity assessment and distribution of <i>Agaricus</i> L. in selected areas in Kenya and nutritional composition of edible species" . (PhD Mycology)
11:20 - 11:40	<b>PRESNTATION 7: Hamabwe Moonga Swiviva:</b> "Characterization of Drought Tolerance Physiological Mechanism in Andean Population of Common Bean ( <i>Phaseolus vulgaris</i> L.) in Zambia." (M.Sc. Plant Physiology and Biochemistry)
11:40 – 12:00	<b>PRESNTATION 8: Omwalo Harman Mathew:</b> "An <i>in vitro</i> investigation of the effects of mixtures of herbal extracts used in management of sickle cell anemia in Busia county (Kenya) on red blood cells from positive sickle cell samples" (M.Sc. Cell Biology & Physiology)
12:00 - 12:20	<b>PRESNTATION 9: Vasco Nyaga Ndumpha:</b> "Nest site selection by the martial eagle ( <i>Polemaetus bellicosus</i> ) in the Masai Mara ecosystem, Kenya." (M.Sc. Biology of Conservation)
12:20 – 12:40	<b>PRESNTATION 10: Martin Nyagah :</b> "Comparative study of the growth response of Nile Tilapia <i>Oreochromis niloticus</i> (Linnaeus, 1758) fingerlings to different formulated feed types." (M.Sc. Biology of Conservation)
12:40 – 13:00	<b>PRESNTATION 11: Emaido .A. Meroy:</b> "Molecular characterization of local cassava landraces and improved varieties for resistance to cassava brown streak viruses"" (M.Sc. Genetics)
13:00 – 14:00	<b>LUNCH BREAK (1 HOUR)</b>

<b>SESSION 3:</b>	<b>CHAIR:</b> Dr. James Kanya	<b>RECORDING:</b> Dr. Catherine Kitonde & Dr. Maina Wagacha
14:00 - 14:20	<b>PRESENTATION 12:</b> Gitau Zipporah Njeri: "Prevalence and associated risk factors of intestinal parasitic infections among school going children at Oloisukut conservancy, Narok county, Kenya." (M.Sc. Applied Parasitology)	
14:20 - 14:40	<b>PRESENTATION 13:</b> Faith Cherop: "Assessing risk of exposure of Rift Valley Fever Virus and other arboviruses to human population in Nguruman, Kajiado county " (M.Sc. Medical & Veterinary Entomology -)	
14:40 - 15:00	<b>PRESENTATION 14:</b> Asurur Harriet: "Molecular characterization and pathogenicity of <i>Colletotrichum</i> species associated with banana anthracnose and their potential control using <i>Chaetomium cupreum</i> -mediated silver nanoparticles." (M.Sc. Microbiology)	
15:00 - 15:20	<b>PRESENTATION 15:</b> Albert Ambia: "Management and Control of Fall armyworm <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae) in Maize by Pheromone-based Mass trapping, in Machakos, Kenya." (M.Sc. Agricultural Entomology)	
15:20 - 15:30	<b>BREAK (10 MINUTES)</b>	
<b>SESSION 4:</b>	<b>CHAIR:</b> Prof. Jacques Kabaru	<b>RECORDING:</b> Dr. Evans Mwangi & Dr. Geoffrey Kirui
15:30 - 15:50	<b>PRESENTATION 16:</b> Nyamotai Rahima Nassir: "Integrated management of seed and soil borne fungal diseases of green grams in Machakos and Tharaka Nithi counties, Kenya." (M.Sc. Microbiology)	
15:50 - 16:10	<b>PRESENTATION 17:</b> Veronicah Onundo: "Analysis of barn owl diet as a tool for assessing ecological change in a Nairobi suburb and Tsavo forest, Kenya " (M.Sc. Biology of Conservation)	
16:10 - 16:30	<b>PRESENTATION 18:</b> Daisy Chebet Ronoh: "Genetic identification and cloning of MxA gene for viral disease resistance against Newcastle Disease Virus in indigenous chicken." (M.Sc. Genetics)	
16:30 - 16:50	<b>PRESENTATION 19:</b> Rebecca Muriuki: "Past and present natural vegetation changes at Kilombe caldera in Baringo county, Kenya" (M.Sc. Biology of Conservation)	
		<b>END OF DAY 1</b>

## DAY 2 WEDNESDAY NOVEMBER 18<sup>th</sup> 2020

### SESSION 5: CHAIR: Prof. Richard Mukabana

08:30 – 08:50 PRESENTATION 20: Lydia C. Wawira Mugo: "Effects of Feeding field cricket (*Gryllus bimaculatus*) on growth rate, water quality and nutritive value of Nile tilapia (*Oreochromis niloticus*)" (M.Sc. Hydrobiology - Aquaculture)

08:50 – 09:10 PRESENTATION 21: Robinson Okoth Kisero Okiro: "Role of *Aedes chaussieri* in Sylvatic arboviral transmission." (M.Sc. Medical & Veterinary Entomology)

09:10 – 09:30 PRESENTATION 22: Violet Awino Ochieng: "Assessing the efficiency of unmanned aerial vehicle (Drones) in desert locust (*Schistocerca gregaria*) survey and control in Kenya." (M.Sc. Agricultural Entomology)

09:30 – 10:00 PRESENTATION 23: Loise Mumbi: "Screening peanut varieties (*Arachis hypogaea* L.) for genetic vigor, aflatoxin accumulation, fungal and bacterial diseases in western Kenya." (PhD Mycology)

10:00 – 10:20 PRESENTATION 24: Anne Nyandiala: "A survey of insect pests in mushroom cultivation and evaluation of management options in Nairobi and western Kenya region" (M.Sc. Biology of Conservation)

10:20 – 10:40 PRESENTATION 25 Pamela Mukiri Kaibunga: ""Artificial culture and proximate analysis of edible *Caulerpa racemosa* and *Caulerpa scalpelliformis*" (M.Sc. Hydrobiology - Aquaculture)

10:40 – 10:50 TEA BREAK (10 MINUTES)

### SESSION 6: CHAIR Prof. Florence Oyieke

10:50 – 11:10 PRESENTATION 26: Mboya Moses Ouko: "Evaluating diversity among Basmati 370 rice and its related lines and their performance in Kenya." (M.Sc. Biology of Conservation)

11:10 – 11:30 PRESENTATION 27: Wanjiru Rosemary Nyambura: "Role of cross-border trade in the spread of bacterial wilt and reaction of selected improved potato varieties to *Ralstonia solanacearum* under field conditions in Nyeri and Elgeyo Marakwet Counties, Kenya." (M.Sc. Microbiology)

11:30 – 11:50 PRESENTATION 28: Musembi Augustine: "Infection profile of tick-borne bacterial pathogens in selected semi-arid ecologies of Kenya." (M.Sc. Applied Parasitology)

11:50 – 12:10 PRESENTATION 29: Njeri Vivianne Njeri: "Genetic characterization of viruses associated with Cassava Mosaic Disease (CMD) in western Kenya and exploitation of mutation for induction of virus resistance." (M.Sc. Genetics)

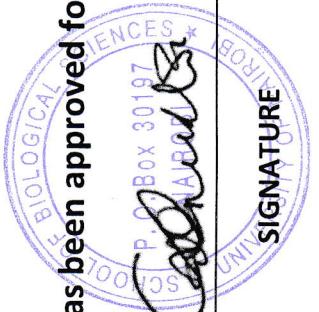
12:10 – 12:40 PRESENTATION 30: Christopher Kiprotich Cheshire: "Diversity, ecology and dynamics of ectomycorrhizal fungi in association with plant communities at select coastal forests of Kenya" (PhD Mycology)

12:40 – 13:00 PRESENTATION 31: Mtwana Josphat Mwamba: "Feasibility Assessment of Blue Carbon Crediting to Communities in Lamu, Kenya." (M.Sc. Biology of Conservation)

13:00 – 13:30 LUNCH BREAK (30 MINUTES)

<b>SESSION 7:</b>	<b>CHAIR:</b> Prof. Richard Mibey	<b>RECORDING:</b> Dr. John Githaiga & Dr. Judy Odhiambo
13:30 – 14:00	<b>PRESENTATION 32: Zahra Mohamed Hussein:</b> "Microbial diversity and characterization of potential probiotic bacteria in raw and fermented camel milk using culture and genomic techniques." (Ph.D. Microbiology)	
14:00 – 14:20	<b>PRESENTATION 33: Miriam W. Gathogo:</b> "Spatial distribution of <i>Psyllaephagus bliteus</i> in western and eastern Kenya for management of <i>Glycaspis brimblecombei</i> ." (M.Sc. Agricultural Entomology)	
14:20 – 14:40	<b>PRESENTATION 34: Paul Washington Odhiambo:</b> "Reaction of selected improved potato varieties to major viral pathogens and evaluation of their performance under small-holder farmers' conditions in Nyeri and Elgeyo Marakwet Counties, Kenya." (M.Sc. Microbiology)	
14:40 – 15:00	<b>PRESENTATION 35: Koinet Kelvin:</b> "Human wildlife conflict: anthropogenic mortality risk of lions in the Mara ecosystem." (M.Sc. Biology of Conservation)	
15:00 – 15:20	<b>PRESENTATION 36: Peter Mwangi Maina:</b> "Heavy metal tolerance of fungi isolated from soils contaminated with industrial effluents in Nairobi County" (M.Sc. Microbiology)	
15:20 – 15:40	<b>PRESENTATION 37: Wafula Miriam:</b> "Variation in tree species diversity in the protected and unprotected areas of Sáwa swamp watershed due to anthropogenic disturbance" (M.Sc. Biology of Conservation)	
15:40 – 15:50		<b>BREAK (10 MINUTES)</b>
<b>SESSION 8:</b>	<b>CHAIR:</b> Dr. George Ong'amo	<b>RECORDING:</b> Dr. Dorcas Sigana & Dr. Virginia Wang'ondu
15:50 – 16:10	<b>PRESENTATION 38: Kinyamu Pinney Mutuma:</b> "Impacts of land fragmentation and human settlements on the endangered Sharpe longclaw ( <i>Macronyx sharpei</i> ) in lake Ol-bolossat, Kenya." (M.Sc. Biology of Conservation)	
16:10 – 16:30	<b>PRESENTATION 39: Peninah Waithira Njoroge:</b> "Effect of East Coast Fever <i>Theileria parva</i> ( Marikebuni) vaccine on reproductive performance of <i>Rhipicephalus appendiculatus</i> tick vector." (M.Sc. Applied Parasitology)	
16:30 – 16:50	<b>PRESENTATION 40: Duncan Okoth Ombul:</b> "Assessment of the implications of rising lake levels on human-wildlife conflicts in lake Naivasha basin, Kenya." (M.Sc. Biology of Conservation)	
16:50 – 17:10	<b>PRESENTATION 41: Peter Kairu Kariuki.:</b> "Diversity, life parameters, protein and fat content of grasshopper and locust species in Nakuru county, Kenya." (M.Sc. Agricultural Entomology )	
17:15		<b>CLOSING REMARKS AND VOTE OF THANKS - Prof. Horace Ochanda Ag. DVC-RIE</b>

This schedule has been approved for circulation



DR. C. LUKHOBA

DIRECTOR, SCHOOL OF BIOLOGICAL SCIENCES

Date 13<sup>TH</sup> NOVEMBER 2020

SIGNATURE