

UNIVERSITY OF MAURITIUS
UoM Research Week 2017
“Connecting Research to the Industry and Community”

Faculty of Agriculture Research Day
Science, Technology and Innovation for Sustainable
Agri-food Value Chain Development

LT1, New Academic Complex, University of Mauritius
Thursday 21 September 2017

08.30 – 08.55	<i>REGISTRATION AND SEATING OF AUDIENCE</i> <i>LT 1, NEW ACADEMIC COMPLEX</i>
09.00 – 09.05	<i>Welcome Address</i> Prof. S Facknath Dean of the Faculty of Agriculture
09.05 – 09.35	<i>Keynote Address</i> L'importance de l'innovation dans un monde agricole en pleine mutation Mr Yan Mayer Entrepreneur and Manager Director of Proxifresh Co. Ltd
<i>GENERAL SESSION:</i> <i>POLES OF RESEARCH EXCELLENCE</i> <u>CHAIRPERSON: Associate Professor D. Puchooa</u>	
09.35 – 09.50	Pole of Research Excellence in Biofarming, Climate Change and Climate-Smart Agriculture (PRE BioCSA) S Facknath* , B Lalljee, A Ruggoo, S Hardowar, V Bhoyroo, H Neetoo and M Chooneea *Faculty of Agriculture, University of Mauritius
09.50 – 10.05	Pole of Research Excellence in Food Safety & Public Health D Goburdhun* , B Aumjaud, D Ramful-Baboolall, Y Jaufeerally-Fakim, H Neetoo, A Ruggoo and S Santchurn *Faculty of Agriculture, University of Mauritius
10.05 – 10.30	<i>TEA BREAK/POSTER SESSION</i> <i>RAISED PLAZA</i>
<i>TECHNICAL SESSION 1:</i> <i>RESEARCH IN FOOD SCIENCE & TECHNOLOGY</i> <u>CHAIRPERSON: Assoc. Prof. D Goburdhun</u>	
10.30 – 10.45	A Study on the Quality of Blanched and Chemically Pre-Treated Frozen Jackfruit (<i>Artocarpus heterophyllus</i>) for New Food Product Development M Bheeroo* and B Aumjaud *New Maurifoods Limited, Eclasia Group
10.45 – 11.00	Assessing the Antimicrobial and Antioxidant Properties of <i>Moringa oleifera</i> – A Comparative Study Between Deionised Water and Zamzam Water as Solvent F H Jahally* and D. Puchooa *Faculty of Agriculture, University of Mauritius

TECHNICAL SESSION 2: RESEARCH IN ENTOMOLOGY & PEST CONTROL CHAIRPERSON: Associate Professor A. Ruggoo	
11.00 – 11.15	The Impact of Mauritius Fruit Bat (<i>Pteropus niger</i>) on Fruit Damage in Selected Local Farms and the Efficacy of Mitigation R Z Oleksy* , C L D Ayady, C Jones, P A Racey and G Jones *Ecosystem Restoration Alliance Indian Ocean, St Pierre, Mauritius
11.15 – 11.30	Fertility and Fecundity of <i>Bactrocera zonata</i> (Saunders) (Diptera: Tephritidae) under Laboratory Conditions R D Bhoyroo* , S Facknath and P Sookar *Ministry of Agro-Industry & Food Security
11.30 – 11.45	Development of a Novel Protein Bait by the Modification of Waste Brewery Yeast for Fruit Fly Control in Sterile Insect Technique Programme N A Patel* , S Facknath and P Sookar *Ministry of Agro Industry & Food Security
11.45 – 12.00	Using Gut Microbial Symbionts to Improve the Quality of Sterile Fruit Flies M Alleck* , S Facknath, S Dyall and P Sookar *Ministry of Agro Industry & Food Security
12.00 – 12.15	Field evaluation of visually-modified BG Sentinel™ traps for enhanced <i>Ae. albopictus</i> mosquito collection D Y Iyaloo* , S Facknath, and A.Bheecarry *Ministry of Health and Quality of Life
12.15 – 13.05	LUNCH
TECHNICAL SESSION 3: RESEARCH IN MICROBIOLOGY & BIOTECHNOLOGY CHAIRPERSON: Dr V Bhoyroo	
13.10 – 13.25	Bioaugmentation and Biostimulation to Degrade Petroleum Hydrocarbons in Soil G Mungla* , B Lalljee and S Facknath *Faculty of Agriculture, University of Mauritius
13.25 – 13.40	Bioremediation of Heavy Metals from Aquatic Environment through Microbial Processes: A Potential Role for Probiotics? M A L Huët* and D Puchooa *Faculty of Agriculture, University of Mauritius
13.40 – 13.55	Cytotoxic Activity of Exopolysaccharides Produced by Marine Bacteria Isolated from Western Part of Mauritius against Selected Cancer Cells for Biomedical and Biomaterials A A Aullybux* , D Puchooa, R Jeewon and T Bahorun *Faculty of Agriculture, University of Mauritius
13.55 – 14.10	Prospective Medical Applications of Extracts from <i>Cassiopea</i> spp. and Its Associated Symbionts T Ramjan* , V Bhoyroo and D Puchooa *Faculty of Agriculture, University of Mauritius
14.10 – 14.25	Shiga-Toxigenic <i>Escherichia coli</i> (STEC): Prevalence, Characterization and Public Health Implications in Mauritius T S Ian Lloyd* , Y Jaufferally-Fakim, J E Gannon and S J Santchurn *Faculty of Agriculture, University of Mauritius
14.25 – 14.40	TEA BREAK/POSTER SESSION RAISED PLAZA
TECHNICAL SESSION 3 (CONT'D): RESEARCH IN MICROBIOLOGY & BIOTECHNOLOGY CHAIRPERSON: Assoc. Prof. M Ranghoo-Sanmukhiya	
14.40 – 14.55	Application of Next Generation Sequencing for Sugarcane Yellow Leaf Virus Genome

	<p>Characterization N Joomun*, A Dookun-Saumtally and D. Puchooa *Maurotius Sugarcane Industry Research Institute, Réduit</p>
14.55 – 15.10	<p>Cultivation of <i>Agaricus</i> spp. Strains on Non-Composted and Composted Substrates N D Chukowry*, B Lalljee and R Jeewon *Faculty of Agriculture, University of Mauritius</p>
15.10 – 15.25	<p>Assessment of the Antioxidant and Larvicidal Properties of Sea Cucumbers from Pointes aux Feuilles, Mauritius M A Espiegle*, D Puchooa and N Nazurally *Faculty of Agriculture, University of Mauritius</p>
<p>TECHNICAL SESSION 4: RESEARCH IN MARINE & FRESHWATER BIOLOGY CHAIRPERSON: Dr S J Santchurn</p>	
15.25 – 15.40	<p>Development of Marine Aquaculture in Mauritius: Impacts on Marine Biodiversity N Nazurally*, S Facknath and B Lalljee *Faculty of Agriculture, University of Mauritius</p>
15.40 – 15.55	<p>Assessing the Level of Algal Proliferation in an Impounding Reservoir of Mauritius B Mohun* and H Neetoo *Central Water Authority, Vacoas</p>
<p>CLOSING REMARKS: Dr B Ramasawmy CHAIR OF FACULTY RESEARCH DAY ORGANISING COMMITTEE</p>	

List of Posters

Display: 18-22 September 2017
 Raised Plaza, New Academic Complex

<i>AGRICULTURE</i>	
TITLE OF POSTER PRESENTATION	NAME (S) OF AUTHORS
Effect of Mulch, Tillage and Fertilizer on Maize Production in Mauritius	V Ramborun , S Facknath and B Lalljee
An Assessment of the Potential of Biofertilisers in Hydroponic Crop Production	D Doongoor , M Chooneea and A Ellapen
Nitrous Oxide Gas Emission in Potato Cropping Systems	A Ramdinee , S Facknath and B Lalljee
Characterisation of Selected Garlic Accessions Collected in the Republic of Mauritius	R Rummun and N Boodia
An Evaluation of the Perception of Different Landscape Styles on Human Senses among Indoor and Outdoor Workers	D A Jeetun and M Chooneea
An Assessment of Different Recycled Materials Used in Local Landscaping Projects	Y Auckel and M Chooneea
An Assessment of Integrated Disease Management (IDM) Practices in Local Plant Nurseries in Mauritius	Y Mookien , M Chooneea and H Neetoo
A Study of the Landscape and Principles of Design at Selected Hotels in Mauritius Using Exotic and Native Plants	C Hurnauth and S Hardwar
Inherited Sterility as Part of an Area-Wide Integrated Pest Management (AW-IPM) Programme against <i>Chilo partellus</i> Swinhoe (Lepidoptera: Crambidae)	M J Caphane , S Facknath, S Ganeshan and D E Conlong
<i>BIOTECHNOLOGY</i>	
A Study of the Bioactive Potential of Local Sea Urchins, <i>Diadema</i> sp.	L Ah Shee Tee , D Puchooa and V Bhoyroo
Genetic Relatedness and Reproductive Compatibility of Crop Wild Relatives from Primary and Secondary Gene Pools	A Tegally , M E Dulloo and Y Jaufeerally-Fakim
Extraction Yield of Different Extracts of <i>Cassia</i> Species Grown in Mauritius.	N Raman-Ibrahim , D Puchooa, J Govinden-Soulange and S Facknath
An Assessment of the Feeding Habit and Allometric Relationships of Two Species of Local Marine Bivalves	R Soobhug , D Kaullysing and V Bhoyroo
Comparative Genomics of Mycobacteria	K Persand , Y Jaufeerally- Fakim and S Baichoo
Marine fungi from Mauritius: Isolation, Identification and Production of Bioactive Compounds	V Bhoyroo , D Puchooa, R Jeewon, V Emrith and M J Wong
An Assessment of the Marine Mollusc of	O Sadasing , V Ranghoo-Sanmukhiya, B Lalljee,

Mauritius	and V Bhoyroo
Conservation of Indigenous Plant Resources: Endemic Mascarene <i>Aloes</i> as a Case Study	D Lobine , J Govinden-Soulange and V Ranghoo-Sanmukhiya
<i>FOOD SCIENCE & MICROBIOLOGY</i>	
Knowledge, Attitude and Practices Relating to Waste Segregation and Composting among Households in the District of Pamplemousses	P Seegoolam and B Aumjaud
Market Survey on Food Additives in Local and Imported Food Products in Mauritius	D Harnarun-Etwaroo , D Goburdhun and A Ruggoo
Anti-Listerial Activity of Lemon Grass Extract and Essential Oil on Surimi-Based Products	P Ramroop and H Neetoo
Effect of Climate Variability and Climate Change on the Prevalence of Total and Pathogenic <i>Vibrio</i> Species in Mauritius	K Reega , V Bhoyroo, N Nazurally, Y Jaufeerally-Fakim, M Hosenally and H Neetoo
A study on the growth potential of spoilage microorganisms on fresh cut ready-to-eat (RTE) fruits and vegetables	W Jaumdally , H Neetoo and A Ruggoo