



UNIVERSITY OF MAURITIUS



# UoM VIRTUAL RESEARCH WEEK 2021

*Building Resilience through Research  
in the COVID-19 Era*

Faculty of Science &  
Centre for Biomedical and Biomaterials  
Research

Friday 12 November 2021



**UoM Virtual Research Week 2021**  
**Friday 12 November 2021**

Time	Virtual Session Programme Link: <a href="https://meet.google.com/ymo-vnwa-mmz">meet.google.com/ymo-vnwa-mmz</a>
09.00 – 09.10	<i>Admission of Participants</i>
09.10 – 09.15	Welcome Address by <b><i>Ramasami P</i></b> <i>Chairperson of Faculty of Science</i>
09.15 – 09.35	The Role of Mentorship in Building Research Networks Keynote Address by <b><i>Prof Ngila C</i></b> <i>Ag. Executive Director</i> <i>The African Academy of Sciences</i>
<b>Oral Parallel Session 1</b>	
<b>Department of Biosciences and Ocean Studies</b> <b>Session Chair: <i>Florens F B V</i></b> <b>Link: <a href="https://meet.google.com/cgc-hsar-tgq">meet.google.com/cgc-hsar-tgq</a></b>	
09.35 – 09.55	Foraging Ecology of a Threatened Island Flying Fox in its Native Habitat: Influence of Invasive Alien Animals and Plants  <b><i>Seegobin V O, Oleksy R Z and Florens F B V</i></b>
09.55 – 10.15	Investigating Drivers of Decline of an Endangered Oceanic-island Endemic Insectivorous Bat  <b><i>Bunsy Y, Oleksy R Z and Florens F B V</i></b>
10.15 – 10.35	Influence of an Island Flying Fox on Commercial Fruits and Damage Mitigation to reduce Human-wildlife Conflict: A Proposed Study  <b><i>Bhanda G, Oleksy R and Florens F B V</i></b>
10.35 – 10.55	Steps towards more Resilient Island Plant Conservation: Case study of <i>Roussea</i> , an Endangered Mauritius Genus  <b><i>Bissessur P, Baider C and Florens F B V</i></b>

10.55 – 11.15	<p>Influence of Invasive Alien Plants on Black Ebony (<i>Diospyros tessellaria</i> Poir. - Ebenaceae) and Implication for Conservation</p> <p><i>Durbarry N B, Baider C and Florens F B V</i></p>
<p><b>Oral Parallel Session 1</b></p>	
<p><b>Department of Biosciences and Ocean Studies</b></p> <p><b>Session Chair: <i>Kaullysing D</i></b></p> <p><b>Link: <a href="https://meet.google.com/jfg-jtnx-izq">https://meet.google.com/jfg-jtnx-izq</a></b></p>	
11.15 – 11.35	<p>Coral Diseases from the Waters of Rodrigues Island</p> <p><i>Jogee SY, Gopalsing S, Jeetun S, Ricot M, Taleb-Hossenkhan N, Mattan-Moorgawa S, Kaullysing D, Casareto BE, Suzuki Y and Bhagooli R</i></p>
11.35 – 11.55	<p>Reef Fish Biomass and Diversity around Rodrigues Island</p> <p><i>Ricot M, Anasamy M, Jeetun S, Joogee S, Taleb-Hossenkhan N, Kaullysing D, Joseph Mbui M and Bhagooli R</i></p>
11.55 – 12.15	<p>Diversity and Distribution of Corals and their Recruitment Pattern around Rodrigues Island</p> <p><i>Jeetun S, Ramkissoon R K, Ste Marie J M, Jogee S Y, Ricot M, Kaullysing D, Taleb-Hossenkhan N, Baird AH and Bhagooli R</i></p>
12.15 – 12.35	<p>Bioprospecting for Antibacterial Agents from Mauritian Mangrove Soil Microbes</p> <p><i>Parboteeah S, Bhowon M G, Jhaumeer Laulloo S, Jawaheer S and Dyall S D</i></p>
12.35 – 12.55	<p>Influence of a recent marine oil spill on coastal invertebrate fauna of lagoon islets of south-east Mauritius and implication for conservation of two endemic coastal reptiles</p> <p><i>Law Yu Kam R, Florens F B V, Appadoo C and Cole N</i></p>

### Poster Parallel Session 1

Department of Biosciences and Ocean Studies

Session Chair: *Caumul P*

Link: [meet.google.com/bkd-pfud-yan](https://meet.google.com/bkd-pfud-yan)

12.55 – 13.05	Carbon Sequestration Potential of Mangroves along the Mauritian Coasts with focus on their Biomass Productivity (Preliminary Results)  <i>Doodee M D D, Rughooputh S D D V and Jawaheer S</i>
13.05 – 13.15	Abundance, Diversity and Distribution of Hothurians around the Tropical Intertidal Zone of Mauritius Is.  <i>Bissessur P and Mattan-Moorgawa S</i>
13.15 – 13.25	Abundance, Density and Diversity of Sea Urchins in the Tropical Intertidal Zone around Mauritius Is.  <i>Devi Kissoon M and Mattan-Moorgawa S</i>

### Oral Parallel Session 2

Department of Chemistry

Session Chair: *Ramasami P*

Link: [meet.google.com/ymo-vnwa-mmz](https://meet.google.com/ymo-vnwa-mmz)

09.35 – 09.55	Bimolecular Nucleophilic Substitution Reactions of Chloromethane using Ion-Pair Nucleophiles: A Computational Study  <i>Savoo N, Rhyman L and Ramasami P</i>
09.55 – 10.15	Investigation of the Physico-chemical Aspects of Ocean Acidification in some Selected Lagoons around Mauritius  <i>Imrit Y A, Boodhoo K and Ramessur R</i>
10.15 – 10.35	Computational Study of the Binding Effects of Amphetamine on Fingerprinting Reagents  <i>Bhikharee D, Rhyman L, Goddard P and Ramasami P</i>
10.35 – 11.05	Introduction to Ayurveda  <i>Sharma I</i>

### Oral Parallel Session 3

Department of Mathematics

Session Chair: *Jowaheer V*

Link: [meet.google.com/vwt-raxq-pgo](https://meet.google.com/vwt-raxq-pgo)

09.35 – 09.55	Numerical Algorithms for Solution of Anomalous Diffusion Problems using Generalized Multiquadrics  <i>Soopramanien S S G and Thakoor N</i>
09.55 – 10.15	A Combination of Radial and Polynomial Basis Functions Method for the Numerical Solution of Pricing Equations Arising in Financial Market  <i>Ackbar F and Thakoor N</i>
10.15 – 10.35	Diabetes Risk Prediction and Risk Factors using Data Mining Techniques  <i>Dostmohamed A and Boojhawon R</i>
10.35 – 10.55	Study of Fuzzy Logic and Adaptive Neuro-Fuzzy Inference System for Accurate Prediction of Solar Power in Mauritius  <i>Wahidna A, Sookia N and Ramgolam Y</i>

### Oral Parallel Session 4

Department of Physics

Session Chair: *Heeralall-Issur N*

Link: [meet.google.com/wro-oevw-ccj](https://meet.google.com/wro-oevw-ccj)

09.35 – 09.55	Ship Detection in the EEZ of Mauritius by applying Deep Learning Techniques on Sentinel-2 Satellite Data  <i>Joyseeree S D, Heeralall-Issur N, Cullen D and Beeharry Y</i>
09.55 – 10.15	Simulation of the Earth Radio-leakage from Mobile Towers as seen from Selected Habitable Exo-planets  <i>Saide R, Heeralall-Issur N, Garrett M, Cullen D and Baijnath D</i>

10.15 – 10.35	<p>Array Receiver and Data Acquisition System Design for Analysis of the Angular Scale of Galactic Neutral Hydrogen Emission</p> <p><i>Akumu P, Forson A, Heeralall-Issur N, Deshpande A, Wilkison P, Golap K and Yashwantsing S</i></p>
10.35 – 10.55	<p>A Study of the Observational Characteristics of Repeater FRBs to help throw Light on Possible Emission Mechanisms</p> <p><i>Hurwanth D, Heeralall-Issur N, Deshpande A, Woudt P, Golap K and Baijnath D</i></p>
11.55 – 12.15	<p>Developing an Array of Small Parabolic Antennas for Analysis of the Angular Scale of Galactic Neutral Hydrogen Emission</p> <p><i>Forson A, Akumu P, Heeralall-Issur N, Deshpande A A, Wilkinson P, Golap K and Yashwantsing S</i></p>
12.15 – 12.35	<p>A Comparative Study of some Reservoir Computing Algorithms in the Forecasting of Air Temperature</p> <p><i>Seebocus R H, Lollchund M R and Bessafi M</i></p>
<p><b>Oral Parallel Session 5</b></p>	
<p><b>CBBR</b></p> <p><b>Session Chair: <i>Neergheen VS</i></b></p> <p><b>Link: <a href="https://meet.google.com/jxa-qmhf-zch">meet.google.com/jxa-qmhf-zch</a></b></p>	
09.35 – 09.55	<p>Green Seaweeds Derived Ulvan-Cellulose Scaffolds for Skin Tissue Engineering</p> <p><i>Madub K, Goonoo N, Gimié F, Arsa I A, Schönherr H, Bhaw-Luximon A</i></p>
09.55 – 10.15	<p>Predicting Polymer Blend Miscibility for Tissue Engineering Applications using Machine Learning Models</p> <p><i>Sujeeun L Y, Goonoo N, Moutou K M, Baichoo S and Bhaw-Luximon A</i></p>

<b>10.15 – 10.35</b>	Development of Silk-based Nano-scaffolds for Skin Tissue Engineering Applications <i>Nundloll A, Goonoo N, Xiangdong Kong and Bhaw-Luximon A</i>
<b>10.35 – 10.55</b>	The Impact of Cooking on the Chemopreventive Actions of Locally Grown Moringa oleifera Leaves, a Functional Food <i>Hip Kam A, Li WW, Bahorun T and Neergheen VS</i>
<b>13.30 – 13.40</b> <b>Closing Remarks and Vote of Thanks:</b> <i>Prof Ramasami P</i> <i>Chairperson of Faculty of Science Organising Sub Committee</i> Link: <a href="https://meet.google.com/ymo-vnwa-mmz">meet.google.com/ymo-vnwa-mmz</a>	

\*Each time slot includes 5 minutes for Questions & Answers.