

Schedule of the Scientific Sessions

39th Annual Sessions of the Institute of Biology, Sri Lanka
27th September, 2019 at the National Institute of Business Management
No: 120/5, Wijerama (Vidya) Mawatha, Colombo 07.

Parallel Session 01- Fauna

Time	Abstract Number	Title
9.00-10.00 am	1-01	Habitat preferences of birds in a fragmented wet lowland forest patch; Wawe-kele, Avissawella <u>K. Tharindu Krishan, Sudheera M.W. Ranwala</u>
	1-02	New record of <i>Tricondyla gounellii</i> Horn (Coleoptera, Cicindelinae, an arboreal tiger beetle from Sri Lanka <u>D.L. Abeywardhana, C.D. Dangalle, Y.W. Mallawarachchi</u>
	1-03	Pollination ecology of <i>Luffa acutangula</i> and the significance of pollinator service on crop yield <u>D. A. M. N. Dandeniya, R M C S Ratnayke</u>
	1-04	Comparative assessment of genotoxic potential of Titanium Dioxide nanoparticles and bulk form using the animal model, Nile tilapia (<i>Oreochromis niloticus</i>) <u>A. L. Chandi Samanthika, Asoka Pathiratne</u>
	1-05	Influence of the blood meal sources on the feeding preference, reproductive success and performances of immature stages of <i>Phlebotomus argentipes</i> <u>N. M. N. G. Nayakarathna, G. A. S. M. Ganehiarachchi, R.P.V.J. Rajapakse</u>
10.00-11.00 am	1-06	Identification of the etiological agent of “mouth fungus disease” from affected guppy (<i>Poecilia reticulata</i> Peters 1859) stocks <u>P.G.R.N.M. Rajakaruna, M. Hettiarachchi, D.C. Hettiarachchi</u>
	1-07	An assessment of heavy metal accumulation in pigeon feathers <u>W.B.P.S. Fernando, M. R. Wijesinghe, S.M Vithanarachchi, R.D. Wijesekera</u>
	1-08	Influence of vertebrate excreta based Infusions on attraction, oviposition and development of Asian Tiger Mosquito, <i>Aedes albopictus</i> (Diptera: Culicidae) <u>R.D.T. Rajapaksha, G.A.S.M. Ganehiarachchi</u>
	1-09	Clinical and laboratory profile of Dengue NS1 antigen positives: An observational study from Northern Sri Lanka <u>Tibutius T. P Jayadas, T. Kumanan and S.N Surendran</u>
	1-10	The effect of early-life exposure to Bisphenol A on sex differentiation of Zebrafish (<i>Danio rerio</i>) <u>S.P.K.S.S Pathiraja, R.P.G.K. Rajapaska</u>

11.00 to 12 noon	1-11	Water hardness on pathogenicity of etiological agent of “mouth fungus disease” in guppy (<i>Poecilia reticulata</i> , Peters 1859) under laboratory conditions <u>P.G.R.N.M. Rajakaruna</u> , M. Hettiarachchi M., D. C. Hettiarachchi
	1-12	Effects of weather and temporal variations on the diversity and abundance of moths in Indikadamukalana lowland wet zone forest, Sri Lanka <u>R. M. P. B. Gunathunga</u> , N. Pallewatta, C. D .Dangalle
	1-13	Assessing entomopathogenic effect of locally isolated fungi on dengue vectors using micro-injection <u>Kokila Sivabalakrishnan</u> , Oshadi Karunarathne, Christie Thavaranjit, Thampoe Eswaramohan, Sinnathambi N Surendran
	1-14	Effect of insecticide space spray treatment against vectors of Dengue fever and its impact on other insect populations in Galle municipal council area, Sri Lanka <u>B. Y. Hemantha Seneviratne</u> , H. T. R. Jayasooriya

Parallel Session 02 – Flora

Time	Abstract Number	Title
9.00-10.00 am	2-01	Green mirror on bare lands: a reality? <u>Chasika Prematunga</u> , Nimeshi Wijekoon, Gamini Seneviratne, Udeni Jayalal
	2-02	Phylogenetic relationships in ANITA grade (Family Nymphaeaceae) and Magnoliids; pollen morphometrics <u>H.G.N. Dewangani</u> , A.I. Priyadarshan
	2-03	Assessment of stomatal characteristics and growth performance of <i>Ageratina riparia</i> (Regel) R.M. King & H. Rob. populations in Hakgala and Riverston, Sri Lanka <u>S.A.D.A. Sathurusinghe</u> , S.M.W. Ranwala
	2-04	Comparison of pollen viability and germinability of indigenous <i>Dendrobium crumenatum</i> Swartz and commercial cultivar Dendrobium 'Micky Pinky Splash' <u>W. E. R Silva</u> , H. Herath, R. Attanayake, S. Ratnayake, S. P. Senanayake
	2-05	Use of natural growth enhancer for <i>in vitro</i> micropropagation of <i>Stevia rebaudiana</i> <u>H. G. M. K. Karunarathna</u> , K. N. K. Medagama, D.S.A. Wijesundara, M. C. M. Iqbal
10.00-11.00 am	2-06	Proximate composition of a range of Millet types and Sorghum Varieties in Sri Lanka <u>I.G.N.H. Senevirathne</u> , S.I. Jayathilaka, W.K.S.M. Abeysekera, W.P.K.K. Abeysekera, N.Y. Jayanath, G.A.S. Premakumara, D.C.M.S.I. Wijewardana
	2-07	Growth and yield performances of Rice (<i>Oryza sativa</i> L.) under treatment of Nano-ZnO-fertilizer <u>K. N. Widanapathirana</u> , S. Somaratne, S. R. Weerekoon, N. Karthekayan
	2-08	Investigating the biocontrol and plant growth promotion potential of fungal endophytes <u>S. I. Devabandu</u> , K.G.S.U. Ariyawansa
	2-09	Micropropagation and antioxidant properties of <i>Piper longum</i> L. <u>D. M. Palihakkara</u> , K. D. P. P. Gunathilake, H. D. D. Bandupriya
	2-10	<i>In-vitro</i> propagation and taxonomic differentiation of 'Nil-awariya' (Indigofera L.) species in Sri Lanka <u>W. A. H. N. Weerakkody</u> , P. S. Saputhanthri
11.00-12 noon	2-11	Biofumigation potentials of dry forms of Radish, Mustard, Cabbage, Papaya and Indian Cress plant materials for eradicating plant parasitic nematodes in tea soils <u>B. Jananey</u> , P. G. D. S. Amarasena, K. M. Mohotti, B. M. G. K. Godavita
	2-12	The root lesion nematode, <i>Pratylenchus loosi</i> as a Biological Indicator of climate change in tea <u>P. G. D. S. Amarasena</u> , K. M. Mohotti, D. M. De Costa, A. K. Prematunga
	2-13	Assessment of stigma receptivity of different parental cultivars of Tea (<i>Camellia sinensis</i> L.) <u>J.H.N. Piyasundara</u> , I.P. Wickramasinghe, M.T.K. Gunesekara, M.A. Wijeratne, S.A.C.N. Perera, M.A.B. Ranathunga, A.K. Mudalige
	2-14	Determination of the physiological basis of peelability of cinnamon <u>R.P.R. Gallage</u> , K.S.P. Amarathunge, C.K. Beneragama, L.D.B. Suriyagoda, A.J. Mohotti

Parallel Session 03- Molecules and Microbes

Time	Abstract Number	Title
9.00-10.00 am	3-01	Genetic profiling of six X-chromosomal STR loci among Tamil populations in Sri Lanka <u>K. L. N. S. Perera</u> , G. H. Galhena, G. Ranawaka
	3-02	Anti-quorum sensing botanicals <u>P.M.Godakanda</u> , C.M. Nanayakkara, M.N. Kaumal
	3-03	Structure determination and molecular docking of AlkB2 alkane 1-monooxygenase 2 of <i>Pseudomonas aeruginosa</i> PAO1 <u>F. A. Rahman</u> , W. P. E. H. Hemamali, Inoka C. Perera
	3-04	Construction of EGFP tagged yeast expression vector as a tool for studying protein-nucleic acid interactions <u>C. S. Dharmarathna</u> , Y.I.N.S. Gunawardena, R.S. Dassanayake
	3-05	Insight into plant-fungal interactions through secretome analysis <u>T.M. KahaduwaArachchi</u> , K.G.S.U. Ariyawansa
10.00-11.00 am	3-06	Nano-encapsulation of rutin and evaluation of their in vitro bio accessibility and stability <u>M.M.R.D. MeI</u> , K.D.P.P.Gunathilake
	3-07	<i>In vitro</i> anti-diabetic potential of bark of Ceylon cinnamon (<i>Cinnamomum zeylanicum</i> Blume) using yeast cells glucose uptake assay <u>A.K.D.M. Binuwangi</u> , W.P.K.M. Abeysekera, W.K.S.M. Abeysekera, G.A.S. Premakumara, W.D. Ratnasooriya
	3-08	Antioxidants and antioxidant activity of root and stem bark of <i>Moringa oleifera</i> Lam. (Murunga) <u>R. Weerakkody</u> , W. P. K. M. Abeysekera, W. K. S. M. Abeysekera, P. Ranasinghe, G. A. S. Premakumara, W. D. Ratnasooriya
	3-09	Anti-glycation and glycation reversing potential of a range of selected Millet types and Sorghum varieties in Sri Lanka: An In vitro study <u>I.G.N.H. Senevirathne</u> , W.K.S.M. Abeysekera, W.P.K.M. Abeysekera, N.Y. Jayanath, G.A.S. Premakumara, D.C.M.S.I. Wijewardana
	3-10	Anti-oxidant and anti-inflammatory activities of selected Millet types and Sorghum varieties in Sri Lanka (An In-vitro study) <u>S.I. Jayathilaka</u> , W.P.K.M. Abeysekera, W.K.S.M. Abeysekera, N.Y. Jayanath, G.A.S. Premakumara, D.C.M.S.I. Wijewardana
11.00-12 noon	3-11	Quantification of selected phenolic compounds in leaf and stem bark of <i>Moringa oleifera</i> Lam. (Murunga) <u>Y. K. D. D. Thathsarani</u> , W. P. K. M. Abeysekera, H. D. Weerathunga, W. K. S. M. Abeysekera, G. A. S. Premakumara
	3-12	DNA and ligand binding properties of MSMEG_0596; a GntR family transcriptional regulator in <i>Mycobacterium smegmatis</i> <u>Warunika Karunasiri</u> , Thanusha D. Abeywickrama, Inoka C. Perera
	3-13	A comparison of rhizospheric fungal diversity between a traditional rice variety and a newly improved rice variety <u>M. H. H. Randulee</u> , N. Deshappriya
	3-14	Computational analysis of OsNRAMP5 in selected Sri Lankan Rice varieties <u>K. R. Elgiriyeewithana</u> , A. M. Wickramasuriya

Parallel Session 04- Environment

Time	Abstract Number	Title
8.00-9.00 am	4-01	Salinity variations in surface water systems in Delft Island Sri Lanka <u>K. Sivashanthini</u> , K. Gunaan, K. Harichandra, S. Sutharshiny, T.W.S. Warnasuriya, N. Ragavan
	4-02	Assessment of nutrient (nitrogen and phosphorus) accumulation by emergent macrophytes, <i>Typha angustifolia</i> and <i>Chrysopogon zizanioides</i> <u>K.R.S. Perera</u> , M.D.M.D.W.M.M.K. Yatawara
	4-03	Assessment of toxic effects of treated textile effluent using <i>Allium cepa</i> bioassay <u>P.G.M.U. Wickramasinghe</u> , W.M.D.N. Wijeyaratne
	4-04	Assessment of water quality parameters and phytoplankton assemblages in input streams of the Diyawannawa wetland system <u>D.B.M. Nanayakkara</u> , W.M.D.N. Wijeyaratne
	4-05	Comparison of Litter input and soil properties between a fragmented wet lowland forest and neighbourhood rubber plantation <u>Manshika M. L. Gunawardena</u> , Sudheera M.W. Ranwala
9.00-10.00 am	4-06	Evaluation of phosphorus dynamics in relation to cluster roots of <i>Grevillea robusta</i> l. <u>M.H.L.R. Subasinghe</u> , D.M.S.B. Dissanayaka, A.J. Mohotti
	4-07	Spatial distribution patterns and relationship of <i>Typha angustifolia</i> distribution with salinity and depth at Embilikala lagoon in Bundala wetland <u>K.P.K. Madushani</u> , M.D. Amarasinghe
	4-08	Anatomy of <i>Typha angustifolia</i> L. in relation to its environment <u>N. N. Kalpani</u> , M. D. Amarasinghe
	4-09	Evaluating the suitability of biotic indices to assess the health status of Urban Wetlands in Colombo <u>N.A. Dharmaratne</u> , M.R. Wijesinghe
	4-10	Hot spots of land use/land cover change in Bolgoda wetland: a GIS approach <u>A.H.L.C.M. Athapaththu</u> , Deepthi Wickramasinghe, M.G.M.C. Somachandra
10.00 to 12 noon	4-11	Patterns of plant richness, abundance and endemism of different life forms along an altitudinal gradient in Erathna-Kuruwita and Hatton-Nallathanniya trails of the Adam's Peak Wilderness <u>H.T. Gamhewa</u> , S.M. Pawuluwage, A.M.A.S. Attanayake, H.S. Kathriarachchi
	4-12	Conservation of butterflies through a blend of <i>ex-situ</i> and in-situ strategies: a case study at Pinnawala Zoo in Sabaragamuwa, Sri Lanka <u>D.P. Manawadu</u> , M.A.P. Madurawansa, H.M.S. Jayarathne, D. Malsinghe
	4-13	Formulation of a low cost medium for Azorhizobium biofertilizer <u>Sandani Umeshika</u> , Shyamala Thirimanne
	4-14	Discovery of Keystone Environmental problems from the Examination of Interconnected Nature of Man-made Environmental Crises <u>Sivakumaran Sivaramanan</u> , Sarath W. Kotagama