



Schedule of the Scientific Sessions

42nd Annual Sessions of the Institute of Biology, Sri Lanka
30th September, 2022
At Marion Beach Hotel, Colombo 03

Parallel Session A

TIME	ABSTRACT NUMBER	TITLE
1.30-3.20 p.m.	A-01	Studying the Microbial Community Interactions of Sri Lankan Cattle Milk Microbiota Under Different Climatic Conditions <i>By U. Rajawardana and T. S. Artigala</i>
	A-02	Effect of Curcumin Extract on Inhibition of Coconut Oil Rancidity <i>By S. P. P. Amiyangoda, N. Balachandran and T. C. H. Gamage</i>
	A-03	Evaluating Plant-derived Antifungal Substances for the Effective Management of Seed-borne Fungi of Selected Crop Species <i>By W. N. Hansini and D. A. Daranagama</i>
	A-04	Wound Healing Enhancing Terpenoids from <i>Vernonia zeylanica</i> (L.) Less. <i>By W. M. P. Samarasinghe, G. M. K. B. Gunaherath, C. Ranasinghe, S. Somaratne and K. H. Jayawardana</i>
	A-05	Antibacterial Activity of Entomopathogenic Fungi Isolated from a Thorn Treehopper in Sri Lanka <i>By I. B. N. S. Sewwandi and P. B. Ratnaweera</i>
	A-06	<i>In vitro</i> Bioefficacy of Beauveria sp. Against Tea Shot-hole Borer (<i>Euwallacea fornicatus</i> Eichh.) <i>By R. D. S. M. Gamlath, P. D. Senanayake, G. D. Sinniah and R. G. S. C. Rajapakse</i>

	A-07	A Microbial Cocktail Combined with Organic Fertilizer with the Potential of Providing Rice Growth and Yields Similar to 100% Urea Recommendation <i>By M. G. G. D. Kithmini and T. A. Perera</i>
	A-08	Rhizospheric Fungal Species of Selected Capsicum (<i>Capsicum annuum</i> L.) Varieties of Sri Lanka and their Ability to Control <i>Fusarium</i> sp., Causative Agent of Damping-off Disease in Capsicum <i>By P. U. N. E. Srimali, N. Deshappriya, M. S. W. Fernando, R. N. Attanayake and D. S. Manamgoda</i>
	A-09	Antibacterial Activity of Selected Fungal Endophytes Isolated from Two Species of Pandanaceae <i>By W. N. N. Dabarera, S. S. Ediriweera, C. M. Nanayakkara, K. G. S. U. Ariyawansa, N. N. Wijayawardene, R. P. P. K. Jayasinghe and S. C. Karunarathna</i>
	A-10	Effect of Cryoprotectants on Cell Viability and Biomass Growth of <i>Chlorella</i> sp. and <i>Oscillatoria</i> sp. Cells under Ultra Low Temperature <i>By B. L. W. K. Balasooriya, I. G. S. S. Ekanayaka and S. A. V. Viduranga</i>
	A-11	Screening for Petrol Degradation Potential of Nine Bacterial Isolates Using a Redox dye 2,6-Dichlorophenolindophenol <i>By A. M. Weerakoon, P. S. Wanigasooriya and S. R. Karunaratne</i>

Parallel Session B

TIME	ABSTRACT NUMBER	TITLE
1.30-3.30 p.m.	B-01	Comparison of Phytochemicals of De-polysaccharide and Polysaccharide rich Methanolic Extracts of Sri Lankan Marine Alga <i>Chnoospora minima</i> <i>By U. Bandaranayake, H. S. Kumarasinghe, T. L. Gunathilaka, P. T. Jayasooriya, P. Ranasinghe, L. D. C. Peiris and K. W. Samarakoon</i>
	B-02	Association of Selected Genetic Variants in CBS and MTHFR Genes in a Cohort of Children with Homocystinuria in Sri Lanka <i>By D. T. Mahaliyanage, M. H. N. J. Samarasinghe, S. De Silva, N. Punyasiri and E. Jasinghe</i>

B-03	Effect of Simulated <i>In vitro</i> Gastro-intestinal Digestion on the Bioactive Properties of Phenolic Compounds From Edible Flowers <i>By G. Janarny, K. D. P. P Gunathilake and K. K. D. S Ranaweera</i>
B-04	Genome-wide Identification of <i>Gretchen Hagen3</i> (GH3) Gene Family in <i>Musa acuminata</i> L. <i>By K.H.M. Jayasinghe and H. D. D. Bandupriya</i>
B-05	<i>In vitro</i> Antioxidant Capacity and Lipoxygenase (5-LOX) Inhibitory Activity of Leaves of <i>Citrus aurantiifolia</i> (lime) and Chemical Profile of Leaf Essential Oils <i>By D. Jagoda, G. D Liyanaarachchi, H. D Weeratunge, S. M. Handunnetti, N. Fernando and J. K. R. R. Samarasekara</i>
B-06	Computational Analysis of EMBRYO-DEFECTIVE (EMB) Genes in <i>Arabidopsis</i> <i>By K. H. N. Sandumina and A. M. Wickramasuriya</i>
B-07	Molecular Docking for Discovering Lead Compounds of Fungal Origin for Quorum Quenching Agents Against <i>Pseudomonas aeruginosa</i> <i>By W. M. J. V. Wickramasinghe and I. C. Perera</i>
B-08	DNA Methyltransferases and Demethylases in <i>Theobroma cacao</i> : Genome-wide Identification, Genomic Structures and Phylogeny <i>By W. M. A. Sanahari and A. M. Wickramasuriya</i>
B-09	Prevalence of Angiotensin Converting Enzyme (ACE) Insertion/Deletion Polymorphism and its Association with Oxidative Stress in a Subset of Sri- Lankan Pediatric Psoriatic Patients <i>By S. A. K. Udayanga, J. Seneviratne, M. G. A. Saumyamala and A. D. D. S. Amarasekara</i>
B-10	An ARMS PCR-based RT Coupled Method for Simultaneous Identification of SARS-CoV-2 Variants <i>By S. Liyanage, R. Anthonies, C. S. Sepalage, S. Siriwardana and I. C. Perera</i>

	B-11	Investigating the Proteins Involved with Crosstalk Between Drought Response Sub-pathways in <i>Oryza sativa</i> Using a Network-based Approach <i>By J. W. J. K. Weeraman, T. L. S. Tirimanne and S. P. C. Fernando</i>
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Parallel Session C

TIME	ABSTRACT NUMBER	TITLE
1.30-3.10 p.m.	C-01	Modelling Environmentally Suitable Areas for the Potential Introduction and Cultivation of the Ornamental <i>Cryptocoryne thwaitesii</i> in Sri Lanka <i>By K. A. M. R. P. Atapattu, P. R. G. K. T. Rankoth and H. S. Kathriarachchi</i>
	C-02	Morphological and Biochemical Characterization of Quinoa (<i>Chenopodium quinoa</i> Willd.) - A preliminary Study <i>By A. I. L. Silva and R. Wimalasekera</i>
	C-03	Prolonging the Shelf Life of 'Ambul' and 'Cavendish' Banana Using Potassium Permanganate and Activated Charcoal Based Sachet Fortified with Passive Modified Atmosphere Packaging <i>By M. A. Sandaru and P. S. Saputhanthri</i>
	C-04	Effect of the Organic Liquid Fertilizer Amended with <i>Trichoderma harzianum</i> on the Growth and Yield of <i>Capsicum annuum</i> cv. MI 2 <i>By H. D. U. N. S. Senarathna, R. M. C. S. Ratnayake and B. T. S. D. P. Kannangara</i>
	C-05	Morphological and Phytochemical Characterization of <i>Cajanus cajan</i> L. (Pigeon pea) in Sri Lanka. <i>By H. D. N. H. Karunarathna, A. I. S. Priyadarshan and R. A. S. P. Senanayake</i>

	C-06	Rooting of <i>In vitro</i> Developed Shoots and Stem Cuttings of <i>Passiflora edulis</i> By <u>D. M. N. L. Dassanayake</u> and <u>T. D. Silva</u>
	C-07	Use of Plant-based Organic Fertilizer Paste Enriched with <i>Trichoderma</i> Species for the Cultivation of <i>Basella alba</i> - Alternative Solution to the Commercial Organic Fertilizer By <u>N. N. Kalpani</u> , <u>B. T. S. D. P. Kannangara</u> and <u>R. M. C. S. Ratnayake</u>
	C-08	Investigating the Responses of <i>Sesamum indicum</i> L. (Variety ANKSE-3) to Drought Stress at Different Developmental stages By <u>W. K. P. Purnima</u> and <u>I. A. J. K. Dissanayake</u>
	C-09	Morphological Characterization of Selected <i>Phaseolus Cultivars</i> in Uva Province, Sri Lanka By <u>H. D. N. H. Karunarathna</u> , <u>A. I. S. Priyadarshan</u> and <u>R. A. S. P. Senanayake</u>
	C-10	Green Synthesis of Zinc Oxide Nanoparticles Based on <i>Piper longum</i> L. Leaf Extracts By <u>T. K. Rupasinghe</u> , <u>S. M. Vithanarachchi</u> and <u>H. D. D. Bandupriya</u>

Parallel Session D

TIME	ABSTRACT NUMBER	TITLE
1.30-3.10 p.m.	D-01	Evaluation of Cytotoxicity of Fruit extract of <i>Catunaregam spinosa</i> Using Brine Shrimp Assay By <u>P. K. Lawrence</u> and <u>W. T. P. S. K. Senarath</u>
	D-02	Variations in Microclimatic Conditions Across Different Habitat Types in the Wasgamuwa National Park By <u>A. D. Senevirathna</u> , <u>H. H.E. Jayaweera</u> and <u>M. R. Wijesinghe</u>
	D-03	Impact of COVID-19 Pandemic on Air Pollutant Emissions in Colombo District, Sri Lanka By <u>J. P. P. M. Jayalath</u> , <u>E. Lokupitiya</u> and <u>D. Halwathura</u>
	D-04	Effects of Sub-lethal Exposure of Ibuprofen on Laboratory-reared <i>Oreochromis niloticus</i> Juveniles: An Integrative Biomarker Study By <u>H.P.S.H. Wickramarathna</u> , <u>S.H.N.P. Gunawickrama</u> , and <u>K.B.S. Gunawickrama</u>

D-05	Heavy Metal Accumulation in Selected Food Fish and the Level of Human Exposure through Diet in Mahakanadarawa wewa, Anuradhapura District <i>By <u>A.I. Wanasinghe</u>, R.G.D.R. Jayawickrama, R.L. Jayaratne and U.A. Jayawardena</i>
D-06	Effect of Urbanization on Initiation of the Dawn Chorus of Home Garden Birds <i>By <u>M.G.D.D. Kariyawasam</u>, G.D. Jayasinghe and M.R. Wijesinghe</i>
D-07	Acute Toxicity of the Herbicide; Pretilachlor, and its Effect on Mortality and Behaviour of Molly Fish (<i>Poecilia sphenops</i>) <i>By <u>E.D.J. Chathurya</u>, M.R. Wijesinghe and V.A.K. Fernando</i>
D-08	Physicochemical Analysis and Toxicity Assessment of Sugarcane Distillery Spent Wash <i>By H.D. Kurupparachchi, <u>K.M.S. Ruvinda</u> and J. Manathunga</i>
D-09	Distribution of Endemic Plant Genera in Sri Lanka: Niche Breadth, Range Size and Altitudinal Range <i>By <u>W.A.A.D.M. Viduranga</u> and H.S. Kathriarachchi</i>
D-10	Investigating Spatial Variation of Stomatal Traits of True Mangrove and Mangrove Associates in the Southern Province of Sri Lanka in Accordance with Adaptation <i>By <u>W.R. Ranathunga</u> and H.I.U. Caldera</i>