

# Technical Programme : Theme - Life Sciences

## RESCON 2024

Friday, 1st November 2024

11:55 am - 1:25 pm	Session ID		Session Chairs		Location	
	LS1		Prof. Vajira Weerasinghe   vajira54@yahoo.com		C2.4	
			Prof. I. Nanayakkara   indu.nanayakkara@med.pdn.ac.lk			
	Time	Abstract ID	Title			Presenter
	11:55 - 12:10	20	ADVERSE PSYCHOLOGICAL EFFECTS OF KAMESHWARI MODAKA: A CASE STUDY IN COLOMBO DISTRICT USING THE CHALLENGING EXPERIENCE QUESTIONNAIRE VIA ONLINE SURVEY			M.G.R.K. Manohara
	12:10 - 12:25	90	PREVALENCE OF DYSMENORRHEA AND ITS ASSOCIATION WITH MENSTRUAL CYCLE CHARACTERISTICS AMONG FEMALE UNDERGRADUATES RESIDING IN HOSTELS OF THE UNIVERSITY OF SRI JAYEWARDENEPURA IN SRI LANKA			D.M.M. Ruchirani
	12:25 - 12:40	119	PREVALENCE OF DEPRESSION AMONG UNDERGRADUATE STUDENTS: A CASE STUDY OF FIRST-YEAR UNDERGRADUATES OF A UNIVERSITY IN SRI LANKA			Y.R.I.A. Gunarathna
	12:40 - 12:55	147	PREVALENCE AND ASSOCIATED FACTORS OF OVERUSE INJURIES AMONG TRADITIONAL DANCE PRACTITIONERS OF THREE PROVINCES OF SRI LANKA			M.K.J.K.B. Dharmapriya
	12:55 - 1:10	152	IMPACT OF PEER PRESSURE ON BODY IMAGE SATISFACTION AMONG UNDERGRADUATES IN THE COLOMBO DISTRICT, SRI LANKA			V.G.R. Danushika
1.10 - 1.25	176	PHYSIOTHERAPIST AND OCCUPATIONAL THERAPIST DELIVERED PAIN COPING SKILLS INTERVENTION IN PATIENTS WITH CHRONIC KNEE OSTEOARTHRITIS: OPEN-LABEL, RANDOMIZED CONTROLLED TRIAL PROTOCOL			M. Gunasekara	
		Panel Discussion				

11:55 am - 1:10 pm	Session ID		Session Chairs		Location
	LS2		Prof. Rupika Rajakaruna   rupika.rajakaruna@sci.pdn.ac.lk		C2.5
			Dr. Thilini Anupama   thilinianupama@vet.pdn.ac.lk		
	Time	Abstract ID	Title		Presenter
	11:55 - 12:10	59	MORPHOLOGICAL AND MOLECULAR ANALYSIS OF MICROFILARIA AMONG DOGS IN SELECTED DIVISIONS IN THE KURUNEGALA DISTRICT, SRI LANKA		M.M.M.M.S. Kumari
	12:10 - 12:25	83	A PRELIMINARY STUDY OF NOCTURNAL BEETLE DIVERSITY AND THEIR FUNCTIONAL GROUPS ACROSS HABITAT TYPES IN DEENSTON, KNUCKLES, SRI LANKA		W.M.H.U. Wijerathna
	12:25 - 12:40	121	SANDFLY VECTOR ABUNDANCE AND CUTANEOUS LEISHMANIASIS PREVALENCE IN MATARA, MATALE AND KEGALLE DISTRICTS IN SRI LANKA		G.D.S.R. Piumali
	12:40 - 12:55	140	SMALL-SCALE ORNAMENTAL FISH FARMERS' KNOWLEDGE ON DISEASE OCCURRENCE AND TREATMENTS IN ANURADHAPURA DISTRICT, SRI LANKA		D.U. Warshavithana
	Panel Discussion				

### LUNCH BREAK

2:00 pm - 4:00 pm	Session ID		Session Chairs		Location	
	LS3		Prof. Gehan Jayasuriya   <a href="mailto:gejava@sci.pdn.ac.lk">gejava@sci.pdn.ac.lk</a>		C2.4	
			Prof Malkanthi Daudasekara   <a href="mailto:malkanthid@sci.pdn.ac.lk">malkanthid@sci.pdn.ac.lk</a>			
	Time	Abstract ID	Title			Presenter
	2:00 - 2:15	62	ANTIOXIDANT, ANTIDIABETIC, CYTOTOXIC AND PHYTOTOXIC PROPERTIES OF TWO MEDICINAL PLANTS, Buchanania axillaris AND Curcuma longa			H.A.K.D. Premasiri
	2:15 - 2:30	63	BIOACTIVITIES OF METHANOLIC LEAF EXTRACTS OF Adenanthera pavonina, Cynometra cauliflora AND Dregea volubilis			U.G.W.S. Bowaddeniya
	2:30 - 2:45	87	A MORPHOLOGICAL CHARACTER-BASED TAXONOMIC REVIEW OF THE GENUS Sargassum C. Agardh (PHAEOPHYTA) IN SRI LANKA			D.K. Palihawadana
	2:45 - 3:00	164	MODERN BIOFILM-BASED BIO-ORGANO-MINERAL FERTILIZER FACILITATES SUSTAINABLE PRODUCTION OF HIGH-QUALITY RICE			S.N.B. Ekanayake
3:00 - 3:15	167	BIOFILM BIOFERTILIZER-BASED MODERN BIO-ORGANO-MINERAL FERTILIZER PRACTICES UNVEIL THE POTENTIAL FOR ORGANIC RICE CULTIVATION			A.J.M.S.H. Jayasekara	

3:15 - 3:30	255	SIGNIFICANCE OF INTRASPECIFIC TRAIT VARIABILITY IN TRAIT-BASED COMMUNITY ASSEMBLY	H.A.S. Madhubhani
3:30 - 3:45	265	EFFECTIVENESS OF THE PEPPER PLANT DISTRIBUTION PROGRAM THROUGH REGIONAL ANALYSIS OF SURVIVAL RATES IN SRI LANKA	R.K.W. Rankethumbura
3:45 - 4:00	269	PLANT DIVERSITY IN ORGANIC AND CONVENTIONAL RICE FARMING: A CASE STUDY FROM MALSIRIPURA, KURUNEGALA DISTRICT, SRI LANKA	M.V.N. Premachandra
Panel Discussion			

2:00 pm - 4:00 pm	Session ID		Session Chairs	Location
	LS4		Prof. Sanath Rajapakse   sanathr@sci.pdn.ac.lk	C2.5
			Dr. Chandima Dhanapala   chandimasd@sci.pdn.ac.lk	
	Time	Abstract ID	Title	Presenter
	2:00 - 2:15	210	IN-VITRO CYTOTOXIC ACTIVITY OF Elaeocarpus serratus AND Artocarpus heterophyllus PLANT LEAF EXTRACTS	M.P.T. Virajini
	2:15 - 2:30	103	IN SILICO MOLECULAR DOCKING REVEALS THE ANTIVIRAL POTENCY OF MORINGYNE FROM Moringa oleifera AGAINST INFLUENZA A VIRUS BY TARGETING NEURAMINIDASE	Janith Yomal
	2:30 - 2:45	24	SILVER NANOPARTICLES SYNTHESIS USING EXTRA- AND INTRA-CELLULAR METABOLITES OF ASPERGILLUS SP. AND THEIR ANTIMICROBIAL POTENTIAL	Prabani T. Perera
	2:45 - 3:00	76	ANTIFUNGAL EFFECT OF GREEN SYNTHESIZED ZINC OXIDE NANOPARTICLES AGAINST PLANT PATHOGENS Fusarium spp.	H.K.S. Madusanka
	3:00 - 3:15	266	TOXIC TRACE ELEMENTS (CADMIUM AND ARSENIC) IN SRI LANKAN COMMERCIAL RICE (Oryza sativa L.)	J.W. Gunawardana
	3:15 - 3:30	205	ENDOPHYTIC DIAZOTROPHS MAINTAIN CHLOROPHYLL CONTENT IN ORGANIC RICE UNDER MODERN BIOFILM-BASED BIO-ORGANO-MINERAL FERTILIZER PRACTICE	K. Jayakody
	3:30 - 3:45	212	BIOACTIVITY OF Strychnos potatorum SEEDS AND DERIVED PRODUCT: ANTIOXIDANT, ANTI-INFLAMMATORY AND CYTOTOXIC PROPERTIES	G.H.P.S.S. Pathirana
	Panel Discussion			

Saturday, 2nd November 2024

8:00 am - 10:00 am	Session ID		Session Chairs	Location
	LS5		Prof. Suranga Kodithuwakku   surangap@agri.pdn.ac.lk	C2.4
			Dr. Irushika Fernando   irushikawit@yahoo.com	
	Time	Abstract ID	Title	Presenter
	8:00 - 8:15	156	IMMUNOHISTOCHEMICAL ANALYSIS OF EXPRESSION OF $\beta$ -CATENIN IN THE PROGRESSION OF ORAL DYSPLASIA TO ORAL SQUAMOUS CELL CARCINOMA	S.A.D.H. Sasanka
	8:15 - 8:30	170	BROAD-SPECTRUM CYTOTOXIC POTENTIAL OF Zanthoxylum rhetsa AGAINST VARIED CANCER CELL LINES	M.R. Jayasinghe
	8:30 - 8:45	159	DEVELOPMENT OF AN LC-MS/MS METHOD FOR THE DETECTION OF PREDNISOLONE DOPING USING HUMAN FINGERNAILS	W.A.S. Kanishka
	8:45 - 9:00	209	DEMOGRAPHIC FACTORS ON CLINICALLY IMPORTANT MICROFLORA IN DENTURE BIOFILMS USING PCR TECHNIQUE	S.L. Jayakody
	9:00 - 9:15	96	DEVELOPMENT OF A COST-EFFECTIVE IN-HOUSE REAL TIME-PCR ASSAY TO DETECT Chlamydia trachomatis	S.A.N.A. Panchali
	9:15 - 9:30	197	EFFECT OF DIETARY AZOLLA (Azolla pinata) SUPPLEMENTATION ON PERFORMANCE OF GROWING PIGS	R.M.H. Shaill Rathnayake
	9:30 - 9:45	39	QUANTIFICATION OF HISTAMINE IN FOUR COMMERCIAL FOOD FISH SPECIES IN FISH MARKETS IN MAHARAGAMA, SRI LANKA	K.B.S.M.H. Perera
	9:45 - 10:00	74	EXTRACTION OF MARINE BIO-PIGMENTS AND EVALUATION OF THEIR SUN PROTECTION FACTOR AND ANTIOXIDANT ACTIVITY	A.M.K.C.B. Aththanayake
	Panel Discussion			

8:00 am - 10:00 am	Session ID		Session Chairs	Location
	LS6		Prof. Veranja Liyanapathirana   veranja.liyanapathirana@med.pdn.ac.lk	C2.5
			Dr. Sarangi Athukorala   sarangiathu@sci.pdn.ac.lk	
	Time	Abstract ID	Title	Presenter
	8:00 - 8:15	10	INDOLE 3-ACETIC ACID PRODUCING BACTERIA FROM ONION RHIZOSPHERE	G.R. Fernando
	8:15 - 8:30	89	MORPHOLOGICAL CHARACTERIZATION OF ANTHRACNOSE CAUSING PATHOGENS ISOLATED FROM COMMERCIALY AVAILABLE PAPAYA IN THE KANDY DISTRICT	G.G.T.H. Karunaratne
	8:30 - 8:45	228	BOOSTING PENICILLIN ACTIVITY USING Coriandrum sativum SEED EXTRACTS AGAINST METHICILLIN-RESISTANT Staphylococcus aureus	S. Karunathilaka
	8:45 - 9:00	102	ANTIBACTERIAL POTENTIAL OF Azadirachta indica AND Curcuma longa EXTRACTS AGAINST SOME SELECTED MULTIDRUG-RESISTANT BACTERIA	R.D.S.M. Thilakarathna
	9:00 - 9:15	221	ISOLATION, CHARACTERIZATION AND TOXICITY PROFILE OF A MARINE BACTERIAL BIOPIGMENT: POTENTIAL NATURAL FOOD COLOURING AGENT	P.H.A. Peiris
	9:15 - 9:30	50	ENTEROPATHOGENIC Salmonella, Shigella, AND Escherichia coli IN THE GUT OF FLATHEAD GREY MULLET (Mugil cephalus) ALONG THE WESTERN COAST OF SRI LANKA	S.H.B.V. Bandara
	9:30 - 9:45	53	Shigella, Salmonella, AND Enteropathogenic Escherichia coli IN JUVENILE TREVALLY (Caranx ignobilis) FROM WESTERN SRI LANKA: MICROBIAL AND MOLECULAR ANALYSIS	W.M.N. Fernando
	9:45 - 10:00	100	ENTEROPATHOGENIC BACTERIA; Escherichia coli, Shigella spp. AND Salmonella spp. IN THE GUT OF Decapterus russelli (INDIAN SCAD MACKEREL) FROM THE COASTLINE OF WESTERN PROVINCE, SRI LANKA	A.S.S. Alahakoon
	Panel Discussion			

#### TEA BREAK

10:30 am - 1:00 pm	Session ID		Session Chairs	Location
	LS7		Prof. Parakrama Karunaratne   shppk@sci.pdn.ac.lk	C2.4
			Prof. Inoka Karunaratne   inokap@sci.pdn.ac.lk	
	Time	Abstract ID	Title	Presenter
	10:30 - 10:45	48	STORED PRODUCT PEST MANAGEMENT AWARENESS AND PRACTICES IN FOUR SELECTED DISTRICTS IN SRI LANKA	G.N.P.V. Anuradha
	10:45 - 11:00	54	KEY BREEDING SITES OF Aedes MOSQUITOES IN THE MATARA DISTRICT, SRI LANKA	A.P.S. Perera
	11:00 - 11:15	60	SHIFT IN SPECIES COMPOSITION AND DIVERSITY OF BEES IN A HIGHLY DYNAMIC AGRO-NATURAL LANDSCAPE AND ITS IMPACT ON CROP POLLINATION	E.M.D. Ekanayake
	11:15 - 11:30	91	EFFECT OF FORMALIN TREATMENT ON BLOWFLY COLONIZATION, MAGGOT MASS AND RATE OF DECAY OF FISH CARCASSES	T.D.D. Heshan
	11:30 - 11:45	123	EFFECT OF SKIN MICROBIAL COMPOSITION OF CATTLE ON BITING PREFERENCE OF MOSQUITOES	B.V.D.S. Baddevithana
	11:45 - 12:00	127	INSECTICIDAL POTENTIALS OF PLANT POWDERS AGAINST PESTS OF STORED GRAINS; Sitophilus oryzae (RICE WEEVIL) AND Callosobruchus maculatus (COWPEA WEEVIL) IN SRI LANKA	G.N.P.V. Anuradha
	12:00 - 12:15	191	PRELIMINARY INVESTIGATION OF DIVERSITY AND ABUNDANCE OF MOSQUITOES IN NATURAL BREEDING SITES IN AMBALANTOTA MOH AREA, SRI LANKA	H.R.S.C. Peiris
	12:15 - 12:30	250	ENTOMOLOGICAL SURVEILLANCE FOR EFFECTIVE DENGUE CONTROL IN URBAN SETTING: A CASE STUDY FROM COLOMBO MUNICIPAL COUNCIL, SRI LANKA	S. Dissanayake
	12:30 - 12:45	289	EFFECT OF RICE VARIETY ON REPRODUCTIVE SUCCESS AND GRAIN CONSUMPTION OF MAIZE WEEVILS, Sitophilus zeamais (COLEOPTERA: CURCULIONIDAE): A PRELIMINARY STUDY	A.P.K.Y. Patabendige
	12:45 - 1:00	293	EFFECT OF pH ON THE DEVELOPMENT OF THE PRIMARY DENGUE VECTOR, Aedes aegypti	H.M.M.K. Herath
	Panel Discussion			

10:30 am - 12:30 pm	Session ID		Session Chairs		Location
	LS8		Prof. Sumedha Madawala   sumedha.madawala@sci.pdn.ac.lk		C2.5
			Prof. Jilushi Damunupola   jilushid@sci.pdn.ac.lk		
	Time	Abstract ID	Title		Presenter
	10:30 - 10:45	21	MORPHOLOGICAL CHARACTERIZATION OF TWO PROMISING LINES OF COMMON BEAN, <i>Phaseolus vulgaris</i> L.		E.M.B.N. Ekanayake
	10:45 - 11:00	37	INTER-POPULATION VARIATION IN SEED CHARACTERISTICS AND GERMINATION BEHAVIOR OF <i>Vigna marina</i>		D.J.M. De Silva
	11:00 - 11:15	66	PATHOGEN DIVERSITY OF <i>Ralstonia solanacearum</i> THAT CAUSES BACTERIAL WILT DISEASE IN TOMATO		K.H.E.S. Rajapaksha
	11:15 - 11:30	68	GREEN SYNTHESIS OF Monsoon longifolium LEAF EXTRACT-BASED SILVER NANOPARTICLES AND ANTIFUNGAL POTENTIAL AGAINST SELECTED FUNGAL PATHOGENS OF <i>Solanum melongena</i>		V.H.N.H. Amara Siri
	11:30 - 11:45	186	COMPARATIVE BIOACTIVITY ASSESSMENT OF <i>Garcinia mangostana</i> PERICARP AND <i>Gymnema sylvestre</i> LEAVES: ANTIOXIDANT POTENTIAL, ENZYME INHIBITION AND CYTOTOXICITY		Y.G.A.D.K. Bandara
	11:45 - 12:00	208	EFFECT OF BIOFILM BIOFERTILIZERS ON THE WATER USE EFFICIENCY OF LOWLAND RICE ( <i>Oryza sativa</i> L.)		V.G.T.A. Epa
	12:00 - 12:15	214	ANTIDIABETIC, ANTI-INFLAMMATORY AND GC-MS PROFILE ANALYSIS OF <i>Schleichera oleosa</i> (KONE) SEED EXTRACT		Y.T. Senaweera
	12:15 - 12:30	243	Na <sup>+</sup> TRAFFICKING AT DIFFERENT TISSUE LEVELS REVEALS POSSIBLE SALINITY TOLERANCE MECHANISMS IN Bw400 RICE VARIETY		B.I. Dasanayaka
	Panel Discussion				

### LUNCH BREAK

1.30 pm - 4:00 pm	Session ID		Session Chairs		Location
	LS9		Prof. Faseeha Noordeen   faseeha.noordeen@med.pdn.ac.lk		C2.4
			Prof.Charmalie Abayasekara   charmalie@sci.pdn.ac.lk		
	Time	Abstract ID	Title		Presenter
	1.30 - 1.45	162	ANTIBIOTIC RESISTANCE IN Pseudomonas spp. FROM KINNIYA AND WAHWA HOT SPRINGS, SRI LANKA		H.M.S.A.T. Gunathilaka
	1.45 - 2.00	19	CHARACTERIZATION OF BACTERIAL ISOLATES FROM BREEDING WATER OF DENGUE VECTOR MOSQUITO, Aedes albopictus		W.M.S.H. Wijesundara
	2:00- 2:15	80	ANTIBIOTIC RESISTANCE PATTERN OF BIOFILM PRODUCING BACTERIA ISOLATED FROM WATER PLUMBING SYSTEMS		S. Thevashayinath
	2:15 - 2:30	163	IN SITU INVESTIGATION OF MICROPLASTIC-ASSOCIATED BACTERIAL COMMUNITIES IN SURFACE WATER OF KANDY LAKE, SRI LANKA: ABUNDANCE, COMPOSITION, AND BACTERIAL DIVERSITY		W.K.H. Welagedara
	2:30 - 2:45	136	ISOLATION OF ABIOTIC STRESS TOLERANT RHIZOBIA INHABITING Mucuna bracteata FROM SELECTED LOCATIONS OF PUTTALAM DISTRICT, SRI LANKA		G.W.I.U. Chandraratne
	2:45 - 3:00	252	EYEGLASS USAGE, MAINTENANCE HABITS, AND AWARENESS OF BACTERIAL CONTAMINATION: A SURVEY-BASED STUDY IN SRI LANKA		T.W.K.A.K. Dayarathne
	3:00 - 3:15	249	MORPHO-MOLECULAR CONFIRMATION OF Ganoderma sichuanense (GANODERMATACEAE, BASIDIOMYCOTA) FROM SRI LANKA		B.M. Premaratne
3:15 - 3:30	73	FLAXSEED GEL MEDIA AS A NATURAL ALTERNATIVE TO COMMERCIAL MEDIA USED IN KIRBY-BAUER DISK DIFFUSION METHOD		T.J. Gajabahu	
	Panel Discussion				

2:15 pm - 4:00 pm	Session ID		Session Chairs		Location	
	LS10		Prof. Suyama Boyagoda   suyamam@sci.pdn.ac.lk		C2.5	
			TBA			
	Time	Abstract ID	Title		Presenter	
	2:15 - 2:30	18	FEEDING GUILD COMPOSITION OF BIRDS IN SELECTED URBAN, SUBURBAN, AND FOREST ECOSYSTEMS IN KANDY, SRI LANKA		S.N. Rathnasiri	
	2:30 - 2:45	30	A PRELIMINARY MORPHOLOGICAL STUDY ON THE DIVERSITY OF THE SPIDER GENUS Mallinella (ZODARIIDAE) IN SRI LANKA		D.N.G. Dayananda	
	2:45 - 3:00	112	IMPACT OF ANTHROPOGENIC ACTIVITIES ON WILDLIFE: A CASE STUDY OF THE FISHING CAT, Prionailurus viverrinus IN TWO PROTECTED HABITATS OF SRI LANKA		B.K.P.D. Rodrigo	
	3:00 - 3:15	116	ACTIVITY PATTERN VARIATIONS OF LARGE MAMMALS DURING THE 'PAADA YAATHRA' PILGRIMAGE IN KUMANA NATIONAL PARK, SRI LANKA		M.A.D.C.K. Anawarathna	
	3:15 - 3:30	120	DIVERSITY AND SPATIAL DISTRIBUTION OF AVIFAUNA ALONG THE RECREATIONAL ROADS OF KUMANA NATIONAL PARK		H.M. Weerasinghe	
3:30 - 3:45	168	MORPHOLOGICAL VARIATIONS AND LENGTH-WEIGHT RELATIONSHIPS OF BULLET TUNA, Auxis rochei IN COASTAL WATERS OF SRI LANKA		G.S. Ranasinghe		
		Panel Discussion				