

34th Kerala Science Congress - Best Paper & Poster Awards

No.	Category	Name & Affiliation	Title of the paper
1. Agriculture & Food Science – Best Paper Awards			
	Student	Gayathri M Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram	Plant growth promoting potential of Ragi rhizobacteria isolated from Attappady hill tract
	Scientist	Binuja Thomas KSCSTE, Thiruvananthapuram	Vacuum impregnation- process optimisation
Agriculture & Food Science – Best Poster Awards			
	Student	Siva M Kerala Agricultural University	Endophytic bacillus promotes plant growth and suppresses web blight disease of bush cowpea (<i>Vigna unguiculata</i> (L.)Walp.)
	Scientist	Archana Chandran Kerala Veterinary and Animal Sciences University	Application of yeast-lab consortium from dahi for the development of a novel cereal based fragmented milk product
2. Biotechnology - Best Paper Awards			
	Student	Parvathy Surendran Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram	TLX3 is a crucial determinant for early cerebellar patterning
	Scientist	Dr. Muralidharan V Amrita School of Biotechnology	Mass spectrometry-based proteomic investigation and immunological cross-reactivity studies of Naja Naja (Indian cobra) venom from the Western Ghats in Kerala
Biotechnology - Best Poster Awards			
	Student	Neethu Mohan Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram	Pharmacoeigenetics of Antiepileptic drugs
	Scientist	Thazeem Basheer Integrated Rural Technology Centre	Valorization of biodegradable waste using microbial consortium: an alternative panacea
3. Chemical Sciences - Best Paper Awards			
	Student	Devika S R Cochin University of Science and Technology	A simple and facile turn on fluorescence sensor for the determination of biliverdin
	Scientist	Dr Sreejith S S Cochin University of Science and Technology	A mechanistic insight into electro-reduction of CO ₂ to ethanol by a co-macrocyclic complex
Chemical Sciences – Best Poster Awards			
	Student	Silpa K P Central Marine Fisheries	Polyether macrolide analogues, marginolides a-b, from marine octopus

		Research Institute	<i>Amphioctopus marginatus</i> : Anti-hypertensive leads attenuate angiotensin-converting enzyme
	Scientist	Nithya Mohan Cochin University of Science and Technology	Effect of structural tuning to enhance the nonlinear optical response of salen type Ni(II) compounds
4.	Earth & Planetary Sciences - Best Paper Awards		
	Student	Shaima M M Christ College (Autonomous) Irinjalakuda	Chronology and facies of invertebrate fossil assemblages of Central Kerala coast, South India and its implications on late-quaternary sea - level changes
	Scientist	Sumesh R K National Centre for Earth Science Studies, Thiruvananthapuram	Tracing the precipitation microphysics of mesoscale weather events over Kerala
	Earth & Planetary Sciences - Best Poster Awards		
	Student	Vipin T Raj National Centre for Earth Science Studies	Chemical denudation of mountainous catchments in Southern Western Ghats-a case study using hydro chemical tools and modelling
	Scientist	Anila Alex Centre for Water Resources Development and Management	Spatiotemporal variation of atmospheric water vapour over Indian monsoon region using satellite data
5.	Engineering & Technology - Best Paper Awards		
	Student	Thomas John V School of Engineering CUSAT, Kochi	Technology development and adaptation of geopolymer concrete
	Scientist	Harikrishnan Pulikkalparambil King Mongkuts University of Technology, North Bangkok Thailand	Instantaneous autonomous self-healing in ionic liquid modified bio-epoxy resin
	Engineering & Technology - Best Poster Awards		
	Student	Mathew Sunil Cochin University of Science and Technology, Kochi	Polydimethylsiloxane/Conducting polymer composites for triboelectric applications
	Scientist	Praveen Prasannan International Centre for Free and Open Source Software (ICFOSS) Thiruvananthapuram.	An introduction to the advancement of conventional chatbots in malayalam using hybrid approaches for delivering the social security schemes of Kerala Government
6.	Environmental Sciences, Forestry & Wildlife - Best Paper Awards		
	Student	Ajay S V CSIR-NIIST, Thiruvananthapuram	Open burning of municipal solid wastes and human health impacts – A critical study in Indian context

	Scientist	Vishnu Sreejith M Mahatma Gandhi University Kottayam	ATR-FTIR and HRMS analysis of dust from different indoor environments in a tropical metropolitan area
	Environmental Sciences, Forestry & Wildlife – Best Poster Awards		
	Student	Jiffin Sam CSIR NIIST, Thiruvananthapuram	Cost effective treatment of chloride contaminated effluent from gelatin industries via Friedel’s layered double hydroxide formation
	Scientist	Sruthi K V Centre for Water Resources Development and Management, Kozhikkode	Anthropogenic impact on carbon neutrality towards the interaction between socio economic sectors and climate
7.	Fisheries & Veterinary Sciences - Best Paper Awards		
	Student	Athira P. P. CUSAT, Kochi	Molecular and functional characterization of a histone H2A-derived Antimicrobial peptide, Hipposin from Milk fish <i>Chanos chanos</i>
	Scientist	Dr.Jamuna Valsalan Kerala Veterinary and Animal Sciences University	Genetic evaluation of crossbred cattle of Kerala for fertility and production performances
	Fisheries & Veterinary Sciences - Best Poster Awards		
	Student	Sreelakshmy S Central Marine Fisheries Research Institute- Cochin	Feeding habits of the deep-sea pandalid shrimp, <i>Plesionika semilaevis</i> , Spence bate, 1888 from the Southwest coast of India
	Scientist	A Kirubakaran Veterinary University Training and Research Center	Influence of designer diet and holy basil (<i>Ocimum sanctum</i>) leaves on serum lipid profile of layers
8.	Health Sciences - Best Paper Awards		
	Student	Archana M G Regional Cancer Centre Thiruvananthapuram	siRNA and anti-neoplastic agent tethered gold nanosystem: A promising in vivo co-delivery system for breast cancer management
	Scientist	Dr. Asha Lekshmi Regional Cancer Centre Thiruvananthapuram	Immunohistochemical profiling of p53 mutation status: a propitious approach for tnbc prognostication
	Health Sciences - Best Poster Awards		
	Student	Aswathy S Cardiovascular Diseases and Diabetes Biology Rajiv Gandhi Centre for Biotechnology Thiruvananthapuram	Determining the effects of high glucose on placental glucose transporters and insulin receptors using HTR-8/SVneo cells
	Scientist	No award in this category	

9.	Life Sciences - Best Paper Awards		
	Student	Vinitha A Rajiv Gandhi Centre for Biotechnology Thiruvananthapuram	Cyclophilin a impairs efferocytosis and advances atherosclerotic lesions
	Scientist	No award in this category	
	Life Sciences – Best Poster Awards		
	Student	Sreevidya C P NCAAH, CUSAT	Lipofection-mediated gene delivery and transgenic expression of dsred2 in the primary cell culture from the crustacean model daphnia pulex
	Scientist	Jayalekshmi H Amrita School of Biotechnology	Modulation of microbial virulence by activated furan compounds
10.	Mathematical & Statistical Sciences - Best Paper Awards		
	Student	Athira Babu Cochin University of Science and Technology, Kochi	Differential quadrature method to numerically approximate the solution of two-dimensional telegraph
	Scientist	Dr. Bindu P. P. Govt. Arts and Science College Calicut	Identification of differentially expressed gene in Covid-19 gene expression data
	Mathematical & Statistical Sciences – Best Poster Awards		
	Student	Arya P V Indian Institute of Science Education and Research Pune	New record based transmuted expoenniated inverse weibull distribution and its applications to Covid-19 data
	Scientist	No award in this category	
11.	Physical Sciences - Best Paper Awards		
	Student	Athira Rajan Department of Physics University of Kerala	A simulation study on enhanced electromagnetic interference shielding in multilayered composites
	Scientist	Subramanyan Namboodiri Varanakkottu NIT Calicut	On-demand assembly of Au NPs over solid surfaces from sessile droplets by thermoplasmonically-controlled liquid flow
	Physical Sciences - Best Poster Awards		
	Student	Vidhya Lalan Department of Physics University of Kerala	High-frequency EMI shielding and microwave absorption in Mayenite electride (C ₁₂ A ₇ :e ⁻) with the smallest anions, induced porosity and graphene

			interfaces
	Scientist	Saranya Sasi Union Christian College, Aluva	Hydrothermally synthesized Van Der Waal layered structure of 2D Ws ₂ for Tft application
12.	Scientific Social Responsibility - Best Paper Awards		
	Student	Kanagaraj R Kerala Forest Research Institute Peechi, Thrissur	Development of equipment for sustainable bark harvesting of NTFP yielding trees with special emphasize on <i>Machilus macrantha</i> (nees) Kosterm.
	Scientist	Dr. Silpa P .V GVHSS, Karakulam	Smart learning environment in a knowledge economy through multiple intelligences based multimedia
	Scientific Social Responsibility - Best Poster Awards		
	Student	Lhea Blue St Alberts College (Autonomous) Ernakulam	A bioinformatics approach for the development of plant based molecules for use in the treatment of Rheumatoid arthritis, a chronic inflammatory disorder
	Scientist	Priya Rani M KSCSTE - Jawaharlal Nehru Tropical Botanic Garden and Research Institute, Palode	Illuminating fuel oil from <i>Garcinia gummi gutta</i> seeds- an R&D innovation of social relevance