

Biology Awardees

Year: 2024-25

Winner

Mohammad Sahil

Institute: Tata Institute of Fundamental Research, Hyderabad, Telangana

Supervisor: Dr Jagannath Mondal

Project Title: “A 3site Multiple-Substrates-Bound State of Cytochrome P450cam”

Runner Up – I

Sandip Patra

Institute: Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Telangana

Supervisor: Dr Rupinder Kaur

Project Title: “GPI-Anchored Aspartyl Proteases Target the Host Actin Nucleator Complex Protein to Suppress Epithelial Innate Immunity”

Runner Up – II

Devidutta Samantaray

Institute: Indian Institute of Science Education and Research, Tirupati, Andhra Pradesh

Supervisor: Dr Annapurna Devi Allu

Project Title: “Unravelling the Role of Histone Deacetylases in Thermoprime-Mediated Acquired Thermotolerance in Arabidopsis Thaliana”

Year: 2023-24

Winner

Pradeep Kumar

Centre for Cellular & Molecular Biology, Hyderabad, Telangana

Supervisor: Dr. Rajan Sankaranarayanan

Topic for which Awarded: "Distinct Localization of Chiral Proof Readers Resolves Organellar Translation Conflict in Plants"

Runner Up I

Vigneshwaran Venkatesan

Institute: Centre for Stem Cell Research, Christian Medical College, Vellore, Tamil Nadu

Supervisor: Dr. Saravanabhavan Thangavel

Topic for which Awarded: "Editing the core region in HPFH deletions alters fetal and adult globin expression for treatment of \hat{I}^2 -hemoglobinopathies"

Runner Up II

Abhilash Vijay Nair

Indian Institute of Science, Bengaluru, Karnataka

Supervisor: Prof. Dipshikha Chakravorty

Topic for which Awarded: "Salmonella Typhimurium Employ Spermidine to Exert Protection against ROS-Mediated Cytotoxicity and Rewires Host Polyamine Metabolism to Ameliorate its Survival In Macrophages"

Year: 2022-23

Winner

Ms. Shagufta haque

CSIR – Indian Institute of Chemical Technology, Hyderabad, Telangana

Supervisor: Dr. Chittra Ranjan Patra

Topic for which Awarded: "Regulatory Pathways and Role of Smartly engineered Casein Manganese Oxide Nanoparticles for Therapeutic Angiogenesis"

Runner Up I

Ms. Sneha Gupta

Indian Institute of Technology, Kanpur, Uttar Pradesh

Supervisor: Prof. Ashok Kumar,

Topic for which Awarded: "Antibiotic and Exosome Functionalized Bone Cement in Synergy with Herbal Membrane to Treat Bone Infection and Execute Complete Bone Healing"

Runner Up II

Ms. Subholakshmi Choudhary

CSIR – Indian Institute of Chemical Technology, Hyderabad, Telangana

Supervisor: Dr. Amitava Das

Topic for which Awarded: "Bioengineered MSCC_{xcr2}-Keratinocyte-like Cells Derived 3D Organoid Grafting Potentiates Skin Regeneration in Chronic Diabetic Wound"

Year: 2021 - 22

Winner

Ms. Srividya Gorantla

Birla Institute of Technology and Science, Pilani, Pilani Campus, Rajasthan

Supervisor: Dr. Gautam Singhvi

Topic for which Awarded: "Exploring the Affluent Potential of Glyceryl Mono Oleate – Myristol Liquid Crystal Nanoparticles Mediated Localized Topical Delivery of Tofacitinib: Study of Systematic QbD, Skin Deposition and Dermal Pharmacokinetics Assessment"

Runner Up I

Ms. Pallavi Deolal

University of Hyderabad, Hyderabad, Telangana

Supervisor: Prof Krishnaveni Mishra

Topic for which Awarded: "A Novel ER Protein-uip⁴, Regulates Nuclear Function and Nuclear Pore Complex Quality in S. Cerevisiae"

Runner Up II

Mr. Abdul Wasim

Tata Institute of Fundamental Research, Hyderabad, Telangana

Supervisor: Prof. Jagannath Mondal

Topic for which Awarded: "A Hi-C Data-integrated Model Elucidates E. Coli Chromosome's Multiscale Organization at Various Replication Stages"

Year: 2020-21

Winner

Mr. Tushna Kapoor

Tata Institute of Fundamental Research, Mumbai, Maharashtra

Supervisor: Prof. Krishanu Ray

Topic for which Awarded: “Nanoscale Indentation of Plasma Membrane Establishes a Contractile Actomyosin Scaffold through selective Activation of the Amphiphysin-Rho1-Dia/DAAM and Rok Pathway”

Runner Up I

Mr. Vinayak Sadasivam Tumuluri

Indian Institute of Science Education and Research (IISER), Pune, Maharashtra

Supervisor : Prof. Saikrishnan Kayarat

Topic for which Awarded : “Mechanism of DNA Cleavage by the Endonuclease SauUSI – a Major Barrier to Horizontal Gene Transfer and Antibiotic Resistance in Staphylococcus Aureus”

Runner Up II

Ms. Ujjayinee Ray

Indian Institute of Science, Bangaluru, Karnataka

Topic for which Awarded: “Identification and Characterization of Novel Inhibitors of Nonhomologous End Joining : Implications D N A Double-Strand Break Repair and Cancer Therapy”

Supervisor : Prof. Sathees C. Raghavan

Year: 2019 – 20

Winner

Dr. Santosh Kumar Kuncha

Centre for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: Dr. Rajan Sankaranarayanan

Topic for Which Awarded: “DTD-like Fold for Translation Quality Control”

Runner Up II

Dr. Anumeha Singh

Indian Institue of Science, Bangalore, Karnataka

Supervisor: Dr. Sandeep M Eswarappa

Topic for Which Awarded: “Let-7a-regulated Translational Readthrough of AGO1 Generates a microRNA Pathway Inhibitor”

Runner Up II

Dr. Pavan Kumar Chodiseti

Center for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: *Dr. Manjula Reddy*

Topic for Which Awarded: *“Identification of Bacterial Cell Wall Hydrolase with an Unusual Substrate-Specificity”*

Year: 2018-19

Winner

Dr. Kapudeep Karmarkar

Indian Institute of Science, Bangalore, Karnataka

Supervisor: *Prof. Dipshikha Chakravorthy*

Topic for which Awarded: *“Root Mediated Uptake of Salmonella is Different from Phyto-pathogen and Association with the Colonization of Edible Organs”*

Runner Up I

Dr. Komal Kaushik

CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana

Supervisor: *Dr. Amitava Das*

Topic for which Awarded: *“Cyclooxygenase-2 Inhibition Potentiates Trans-Differentiation of Wharton's Jelly-derived Mesenchymal Stem Cells into Endothelial Cells: Transplantation Enhances Neovascularization-mediated Wound Repair”*

Runner Up II

Dr. Prachand Issarapu

CSIR-Centre for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: *Dr. G R Chandak*

Topic for which Awarded: *“Effect of Maternal Peri-conceptual Micronutrient Interventions on Children's DNA Methylation: The EMPHASIS Study”*

Special Mention Award

Dr. Kavya Kamalakar Rao

Government Degree College (Autonomous), Kalaburagi, Karnataka

Supervisor: *Dr. K Vijayakumar*

Topic for which Awarded: *“Ecological Studies on Butterflies from Semi-Arid Region of Kalaburagi District Karnataka”*

Year: 2017-18

Winner

Dr. Sudheesh A P

Rajiv Gandhi Centre for Biotechnology, Malappuram, Kerala

Supervisor: *Dr. Rakesh Laishram*

Topic for which Awarded: *“Nuclear Phosphoinositide Signal Coupled Poly(A) Polymerase Star-PAP Regulates Metastatic Invasion and Tumour Formation”*

Runner Up I

Dr. R Venkatraman

Indian Institute of Science, Bangalore, Karnataka

Supervisor: *Dr. N. Ravi Sundaesan*

Topic for which Awarded: *“Sirtuin 6 Controls Global Protein Synthesis Through Transcriptional Regulation of mTOR Signaling”*

Runner Up II

Dr. Yogeeshwar Ajjugal

Indian Institute of Technology, Hyderabad

Supervisor: *Dr. Thenmalarchelvi Rathinavelan*

Topic for which Awarded: *A B–Z junction Induced by an A...A Mismatch in GAC Repeats in the Gene for Cartilage Oligomeric Matrix Protein Promotes Binding with the hZ ADAR1 Protein*

Runner Up II

Dr. S M Rajesh Kotcherlakota

CSIR-Indian Institute of Chemical Technology, Tarnaka, Hyderabad, Telangana

Supervisor: *Dr. Chittaranjan Patra*

Topic for which Awarded: *“Recombinant Fusion Protein Loaded Gold Nanoparticles Based Combinatorial Delivery of erbB2 siRNA and Doxorubicin for the Treatment of HER2+ve Ovarian Cancer”*

Special Mention Award

Dr. R Rameshkumar

Alagappa University, Karaikudi, Tamil Nadu.

Supervisor: *Dr. M Ramesh*

Topic for which Awarded: *“Micropropagation is a Potential Tool for Simultaneous Conservation and Production of Plant and Related Pharmaceuticals – An Experimental Approach in Nilgirianthus ciliates”*

Year: 2016 - 17

Winner

Dr. Tushar D Lodha

University of Hyderabad, Hyderabad, Telangana

Prof. Ch. Venkata Ramana

Topic for which Awarded: "Draft Genome Sequence of Rhodococcus Udaipurensis JA643T with Special Reference to Hopanoid Biosynthesis and Mining Bacterial Genomes for Hopanogenesis."

Runner Up I

Dr. Neethu Maria Abraham

University of Hyderabad, Hyderabad

Prof. Krishnaveni Mishra

Topic for which Awarded: "Sir2 the Aging Gene and its Regulation by SUMOylation"

Runner Up I

Dr. K Narendar

Indian Institute of Technology, Hyderabad.

Prof. Dr. Thenmalarchelvi Rathinavelan

Topic for which Awarded: "Structure and Dynamics of DNA & RNA Duplexes Comprising Trinucleotide Repeat Expansions and their Implications towards the Understanding of Disease Pathogenesis"

Runner Up II

Dr. Malapaka Kiranmayi

Indian Institute of Madras, Chennai.

Prof. Dr. Nitish R. Mahapatra

Topic for which Awarded: "Catestatin Gly364Ser Variant Alters Systemic Blood Pressure and the Risk for Hypertension in Human Populations via Endothelial Nitric Oxide Pathway."

Year 2015-16

Winner

Dr. Bankapalli Kondalarao

Indian Institution of Science, Bangalore, Karnataka.

Prof. Patrick D'Silva

Topic for which Awarded: "Hsp31, a ThiJ1/DJ-1/Pfp1 Family Member Protein Plays An Indispensable Role In Oxidative Stress Resistance In Saccharomyces cerevisiae".

Runner Up I

Dr. S Praveen Joseph

LV Prasad Eye Institute, Hyderabad, Telangana

Prof. Indumathi Mariappan

Topic for which Awarded: "Derivative of Ocular Tissues from Human Induced Pluripotent Stem Cells of Indian Origin".

Runner Up I

Dr. Geesala Ramsatyaveni

Indian Institute of Chemical Technology, Hyderabad, Telangana

Prof. Amitava Das

Topic for which Awarded: "Porous Polymer Scaffold for on-Site Delivery of Stem Cells: Protects from Oxidative Stress and Potentiates Wound Tissue Repair"

Runner Up II

Dr. Shabuddin Shaik

Acharya Nagarjuna University, Guntur, Andhra Pradesh

Prof. Y Ranga Reddy

Topic for which Awarded: "Enigmatic Indian Cave Biodiversity".

Year 2014-15

Winner

Dr. J Deepa

International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, Telangana

Prof. Rajeev K Varshney

Topic for which Awarded: "Genotyping-by-Sequencing Based Intra Specific Genetic Map Refines a "QTL-Hotspot" Region for Drought Tolerance in Chickpea"

Runner Up I

Dr. K Venkat Raghavan

CSIR – Central Leather Research Institute, Chennai, Tamil Nadu

Supervisor: Prof. K Purna Sai

Topic for which Awarded: "Expression and Integrity of Dermatopontin in Chronic Cutaneous Wounds: Implications on Skin Re-epithelialization."

Runner Up I

Dr. Preethi Seshadri

Manipal University, Bangalore, Karnataka.

Supervisor: Prof. K V Anujith Kumar

Topic for which Awarded: “Novel Role of Mitochondrial MnSOD In Pluripotency of Mouse Embryonic Stem Cells”

Runner Up II

Dr. Jaya Krishnan

Centre for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: Prof. Rakesh K. Mishra

Topic for which Awarded: “Genome Organization, Chromatin Structure and Gene Regulation: Role of Simple Sequence Repeats”

Year – 2013-14

Winner

Dr. G Narmadha Reddy

CDFD, Nampally, Hyderabad, Telangana

Supervisor: Dr. Maddika Subbareddy

Topic for which Awarded: “WD repeat protein WDR48 in complex with deubiquitinase USP12 suppresses Akt dependent cell survival signaling by stabilizing phosphatase PHLPP1 ”

Runner Up I

Dr. S Santhi Kumar

National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad, Telangana

Supervisor: Dr. N. Satheesh Kumar

Topic for which Awarded: “Quantitation and pharmacokinetics of an active metabolite and dopamine antagonist – paliperidone in rats using LC-MS/MS.”

Runner Up I

Dr. Manasi

BITS-Pilani, Hyderabad campus, Hyderabad, Telangana

Supervisor: Dr. Vidya Rajesh

Topic for which Awarded: “Biosorption of cadmium using a novel microbe isolated from an electronic industry effluent”

Runner Up I

Dr. P Shiva Krishna

Kakatiya University, Warangal, Telangana

Supervisor: Prof. M A Singaracharya

Topic for which Awarded: "Pharmacological activities activity of red pigment isolated from marine bacterium Vibrio sp"

Year – 2012-13

Winner

Dr. Kapil Sirohi

Centre for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: Dr. Ghanshyam Swarup and Dr. Vegesna Radha

Topic for which Awarded: "Understanding Glaucoma Pathogenesis through Studies on a Disease associated Mutant of Optineurin."

Runner Up I

Dr. T Prasad

University of Hyderabad, Hyderabad, Telangana

Supervisor: Dr. Naresh Babu V Sepuri

Topic for which Awarded: "The import of the transcription factor STAT3 into mitochondria depends on GRIM-19, a component of the electron transport chain."

Runner Up II

Dr. B Rama Raju

National Institute of Technology, Warangal, Telangana

Supervisor: Dr. P Sreenivasa Rao

Topic for which Awarded: "Development of Petri Net-based Dynamic Model For Improved Production of Farnesyl Pyrophosphate By Integrating Mevalonate and Methylerythritol Phosphate Pathways In Yeast."

Special Consideration Award : for Agricultural Sciences

Dr. S Vasavi

Directorate of Oilseeds Research, Rajendernagar, Hyderabad, Telangana

Supervisor: Dr. M. Sujatha

Topic for which Awarded: "Development of Transgenic Sunflower (Helianthus annuus L.) Resistant to Sunflower Necrosis Disease".

Year – 2011-12

Winner

Dr. P Muthenna

National Institute of Nutrition, Hyderabad, Telangana

Supervisor: Dr. G Bhanuprakash Reddy

Topic for which Awarded: “Novel aldose reductase inhibitors and antiglycating agents from dietary sources: Prospects for alleviating diabetic complications”

Runner Up I

Dr. G Sandhya

Andhra University, Visakhapatnam, Andhra Pradesh

Supervisor: Prof. K. Uma Devi

Topic for which Awarded: “Effect on soil fungal community structure and fate of an artificially applied B.bassiana strain assessed through 454 pyrosequencing.”

Runner Up II

Dr. Aridaman Pandit

Centre for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: Dr. Somadatta Sinha

Topic for which Awarded: “Differential trends in the condom usage patterns in HIV - 1 genes.”

Year – 2010-11

Winner

Dr. Kavitha Alapati

Acharya Nagarjuna University, Guntur, Andhra Pradesh

Supervisor: Prof. M. Vijayalakshmi

Topic for which Awarded: “Studies on the Production of Bioactive compounds by Nocardia levis MKVL_113 and Streptomyces tendae TK-VL_333”

Runner Up I

Dr. Navneet Kaur Matharu

Centre for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: Dr. Rakesh Kumar Mishra

Topic for which Awarded: “Conserved Components of the higher order chromatin structure in the regulation of homeotic gene complexes in Daniorerio”

Runner Up II

Dr. Kunal Dayma

Centre for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: Dr. V Radha

Topic for which Awarded: “Cytoskeletal remodeling by C3G to induce neurite-like extensions and inhibit motility in highly invasive breast carcinoma cells.”

Year – 2009-10

Winner

Dr. Yatender Kumar

Centre for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: Dr. Ghanshyam Swarup and Dr. Vegesna Radha

Topic for which Awarded: “Interaction with Sug1 Enables I κ B Ubiquitination Leading to caspase-8 Activation and Cell Death”

Runner Up I

Dr. Charitha Gangadharan,

Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Telangana

Supervisor: Dr. Sunil Kumar Manna

Topic for which Awarded: “Understanding the Role of NF- κ B in Doxorubicin-Mediated Cell Death and Chemoresistance: Regulation to Improve Chemotherapy.”

Runner Up I

Dr. S Aarti Iyer

University of Hyderabad, Hyderabad, Telangana

Supervisor: Prof. K.V.A. Ramaiah

Topic for which Awarded: “Phosphorylation of eIF2 α in Sf9 Cells: A Stress, Survival and Suicidal Signal”

Runner Up II

Dr. M Srinivasulu

Sri Krishnadevaraya University, Anantapur, Andhra Pradesh

Supervisor: Prof. V. Rangaswamy

Topic for which Awarded: “Influence of Combinations of Selected Pesticides on Microflora of Agricultural Soils”

Year – 2008-09

Winner

Dr. Gita Kumari

Centre for DNA Finger Printing and Diagnostics, Hyderabad, Telangana

Supervisor: Dr. S. Mahalingam

Topic for which Awarded: “Extracellular Signal-regulated Kinase 2 (ERK-2) Mediated Phosphorylation Regulates Nucleo-Cytoplasmic Shuttling and Cell Growth Control of Ras Associated Tumor Suppressor Protein, RASSF2”

Runner Up I

Dr. Vidya Latha Parsam

L V Prasad Eye Institute, Hyderabad, Telangana

Supervisor: Dr. Chitra Kannabiran

Topic for which Awarded: “Molecular Genetics of Retinoblastoma.”

Runner Up I

Dr. P N B S Srinivas

National Institute of Nutrition, Hyderabad, Telangana

Supervisor: Dr. G. Bhanuprakash Reddy

Topic for which Awarded: “Significance of the α -Crystallin heteropolymer expression in the eye lens”

Runner Up II

Dr. K. Kiranmayee

Kakatiya University, Warangal, Telangana

Supervisor: Prof. A. Sadanandam

Topic for which Awarded: “Plastid transformation studies in Crop Plants”

Year – 2007-08

Winner

Dr. Md. Faiz Ahmad

Centre for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: Dr. Ch. Mohan Rao

Topic for which Awarded: “Fibrillogenic and Non-Fibrillogenic Ensembles of SDS-Bound Human α -Synuclein”

Runner Up I

Dr. Jisha Chalissery

CDFD, Osmania University, Hyderabad, Telangana

Supervisor: Dr. Ranjan Sen

Topic for which Awarded: "Transcription Termination Defective Mutants of Rho: Role of Different Functions of Rho in Releasing RNA from the Elongation Complex"

Runner Up II

Dr. P. Aravind

Centre for Cellular and Molecular Biology, Hyderabad, Telangana

Supervisor: Dr. Yogendra Sharma & Dr. Ranjan Sankaranarayanan

Topic for which Awarded: "Ion binding properties of Calcium sensors and Calcium sequestrers"

Special Awardee

Dr. K. Sowjanya Sree

Andhra University, Visakhapatnam, Andhra Pradesh

Supervisor: Prof. V. Padmaja

Topic for which Awarded: "Oxidative Stress Induced By Destruxin From Metarhizium Anisopliae in the Polyphagous Pest, Spodoptera Litura-a Prelude to its Use as Biopesticide."

Year – 2006-07

Winner

Dr. Tanweer Hussain

Centre for Cellular and Molecular Biology, Hyderabad.

Supervisor: Dr. Ranjan Sankaranarayanan

Topic for which Awarded: "Post-transfer editing mechanism of a D-aminoacyl-tRNA deacylase-like domain in threonyl-tRNA synthetase from archaea"

Runner Up I

Dr. C. Rohini

Osmania University, Hyderabad, Telangana

Supervisor: Prof. K. Prabhakara Rao

Topic for which Awarded: "Role of Mitochondrial OXPHOS genes in human benign and malignant tumors"

Runner Up II

Dr. P. Anil Kumar

National Institute of Nutrition, Hyderabad, Telangana

Supervisor: Dr. G. Bhanuprakash Reddy

Topic for which Awarded: "Effect of Hyperglycemia on the Structure, Function and Expression of α -crystallin: Modulation by Dietary Agents."

