

39th M.P. Young Scientist Congress & Science Festival - 2024



M.P. Council of Science and Technology
Vigyan Bhawan, Nehru Nagar, Bhopal (M.P.), 462003

HOSTED BY
Madhav Institute of Technology & Science
(A Government Aided UGC Autonomous Institute, Affiliated to R.G.P.V. Bhopal)
NAAC Accredited With A++ Grade
Gwalior (M.P.), 474005







39th M.P. Young Scientist Congress & Science Festival - 2024



M.P. Council of Science and Technology
Vigyan Bhawan, Nehru Nagar, Bhopal (M.P.), 462003

HOSTED BY
Madhav Institute of Technology & Science
(A Government Aided UGC Autonomous Institute, Affiliated to R.G.P.V. Bhopal)
NAAC Accredited With A++ Grade
Gwalior (M.P.), 474005



Technical Session 3					Technical Session 4				
Date: 22.02.2024 [10:00 - 11:30 AM]					Date: 22.02.2024 [11:45 AM - 01:30 PM]				
S.No.	Unique ID	Track 1 Discipline: Life Sciences		VENUE	S.No.	Unique ID	Track 1 Discipline: Life Sciences		VENUE
1	39240	EKTA GUPTA	Exploration of Mosquito Virome through Next-Gen Metagenomics Sequencing	 Seminar Hall - I [Faculty-in-Charge: Mr. Shyamveer 7987533818 Student Member: Ms. Pranjal Deshmukh]	7	39166	NIDHI VARSHNEY	Molecular insights into Aurora Kinase A and Epstein-Barr Nuclear Antigen 1 crosstalk in gastric cancer	 Seminar Hall - I [Faculty-in-Charge: Mr. Shyamveer 7987533818 Student Member: Ms. Pranjal Deshmukh]
2	39284	HARSH SONKER	Isolation and Identification of Fungus associated with Nail Scalps of Patients in Jabalpur District of Madhya Pradesh		8	39219	SATYAM SHARMA	Drosophila Wg and Evi/Wntless dissociation occurs post apical internalization in the late endosomes	
3	39378	JHILI SARKAR	Prevalence and Antibigram study of Enterobacteriaceae isolated from Fresh Raw Vegetables		9	39208	SEHAL MISHRA	MicroRNA-195-5p mediates arsenic-induced cytotoxicity in human lung epithelial cells: Beneficial role of plant-derived tannic acid	
4	39386	JYOTSNA KAWADKAR	Functional analysis of Nup107 unravels link between regular Drosophila metamorphosis and mammalian puberty		10	39181	SHIVANI DIXIT	Development and validation of streptavidin-biotin-based double antibody sandwich ELISA for ricin diagnosis	
5	39373	KOMAL KHAJURIA	Synergistic effect of nanoparticle and antibiotics in combating multi drug resistance among bacteria		11	39230	UPASANA SASIDHARAN POTTETH	Decoding the aberrant coiled coil: Dissecting the role of irregularities in the E.coli GrpE coiled coil domain	
6	39285	MANGLAM SONI	Antifungal effects of Eclipta prostrata and Honey on Candida albicans						
S.No.	Unique ID	Track 2 Discipline: Mathematical Sciences		VENUE	S.No.	Unique ID	Track 2 Discipline: Mathematical Sciences		VENUE
1	39174	DEEPAK TRIPATHI	An eco-epidemiological model with predator switching behavior	 Seminar Hall - II [Faculty-in-Charge: Ms. Pooja Tripathi 9399256664 Student Member: Ms. Saloni Srivastava]	7	39290	POOJA TIWARI	Revised particle swarm optimization for optimization to real world engineering problems	 Seminar Hall - II [Faculty-in-Charge: Ms. Pooja Tripathi 9399256664 Student Member: Ms. Saloni Srivastava]
2	39113	KAPIL KANT	Jacobi spectral method for linear weakly singular Volterra Integral Equations of third kind		8	39182	PREETI DEOLIA	Implications of antibody-dependent enhancement in sequential flavivirus infection incorporating vaccination	
3	39394	KOMAL PURSHARTHI	Lattices into construction of quantum secure single sign on protocol.		9	39227	SHUBHAM KUMAR	The Unique Solvability conditions for the absolute value equations $Ax - x = f$	
4	39322	NAHIDA MAJEED WANI	Improved Continuous Leakage-Resilient Certificate-Based Signcryption Scheme						
5	39252	NAVEEN KUMAR	On a conjecture related to the Davenport constant II						
6	39280	NITU BAROD	Dual To Separate Ratio-Cum-Product Type Exponential Estimator Of Finite Population Mean In Case Of Post-Stratification						

39th M.P. Young Scientist Congress & Science Festival - 2024



M.P. Council of Science and Technology
Vigyan Bhawan, Nehru Nagar, Bhopal (M.P.), 462003

HOSTED BY
Madhav Institute of Technology & Science
(A Government Aided UGC Autonomous Institute, Affiliated to R.G.P.V. Bhopal)
NAAC Accredited With A++ Grade
Gwalior (M.P.), 474005







39th M.P. Young Scientist Congress & Science Festival - 2024



M.P. Council of Science and Technology
Vigyan Bhawan, Nehru Nagar, Bhopal (M.P.), 462003

HOSTED BY
Madhav Institute of Technology & Science
(A Government Aided UGC Autonomous Institute, Affiliated to R.G.P.V. Bhopal)
NAAC Accredited With A++ Grade
Gwalior (M.P.), 474005



Technical Session 3					Technical Session 4				
Date: 22.02.2024 [10:00 - 11:30 AM]					Date: 22.02.2024 [11:45 AM - 01:30 PM]				
S.No.	Unique ID	Track 3 Discipline: Medical Sciences including AYUSH		VENUE	S.No.	Unique ID	Track 3 Discipline: Medical Sciences including AYUSH		VENUE
1	39234	AKASH PATHAK	Association of Autonomic Dysfunction with Disease Severity in individuals with primary fibromyalgia syndrome: A Cross-Sectional Study	 Seminar Hall - III [Faculty-in-Charge: Dr. Vikram 94665-00027] Student Member: Ms. Ishita Sharma]	7	39223	RAGNI DUBEY	A study to assess the effectiveness of planned teaching program regarding stem cell preservation among antenatal mothers in rural and urban area of Bhopal city Madhaya Pradesh.	 Seminar Hall - III [Faculty-in-Charge: Dr. Vikram 94665-00027] Student Member: Ms. Ishita Sharma]
2	39167	ANERI PATEL	A Comparative Cross Sectional Study of Pain Management with Intravenous Analgesic drugs Tramadol, Buscopan, Paracetamol and Diclofenac sodium in the Patients Operated for Exploratory Laparotomy in M.Y. Hospital, Indore		8	39401	RISHABH KUMAR CHANDELA	VAGINAL CYTOMORPHOLOGICAL PROFILE IN CORRELATING SUICIDAL DEATHS IN MEDICOLEGAL AUTOPSY CASES	
3	39115	DIVYA BHUSHAN	Correlation of Post-Mortem CSF 5-Hydroxy Indole Acetic Acid Levels with Psychological Autopsy Findings in Suicidal Deaths		9	39155	SOUMIK BHATTACHARJEE	A comparative study to assess the effectiveness and safety of topical olopatadine 0.2% and topical alcaftadine 0.25% eye drops used in the treatment of allergic conjunctivitis in a tertiary health care institute	
4	39261	JYOTSANA RAI	Effectiveness of yoga on depression and anxiety in patients with chronic primary pain: a meta-analysis of randomized controlled trials.		10	39275	SWETA PANDEY	Effect of Tmprss6 genetic variation on iron assimilation and clinico-etio-pathogenesis of sickle cell anemia.	
5	39336	LALITA KUSHWAH	Evaluation of wound healing potential of polyherbal ointment in an animal model and human subjects						
6	39410	MOIRANGTHEM SANGITA	PREVALENCE OF LATENT TUBERCULOSIS AND MYCOBACTERIAL INFECTIONS IN MEDICOLEGAL CASES WITH PLEURAL ADHESIONS A PROSPECTIVE STUDY AT AIIMS BHOPAL						
S.No.	Unique ID	Track 4 Discipline: Plant Sciences		VENUE	S.No.	Unique ID	Track 4 Discipline: Plant Sciences		VENUE
1	39319	ALEENA XAVIER	In the pursuit of 'species': genetic admixtures with local congeners result in taxonomic confusions in Hedychium spicatum (Spicatum complex, Zingiberaceae)	 Seminar Hall - VI [Faculty-in-Charge: Mr. Prateek Bhadauria 95898-82586] Student Member: Ms. Khushi Sonare]	7	39138	RAJKUMAR MEHRA	Relative study of two novel "Panchagavya"-based formulations, in conjunction with an analysis of nutrient levels and microbial composition for sustainable agriculture	 Seminar Hall - VI [Faculty-in-Charge: Mr. Prateek Bhadauria 95898-82586] Student Member: Ms. Khushi Sonare]
2	39395	ANAMIKA	Production of protein and antioxidant rich functional food		8	39342	RUPALI DUTT	In vitro evaluation of glucose lowering, anti-cancerous and anti-inflammatory potential of fermented papaya formulations	
3	39408	BHARTI JAMRA	Early growth characteristics of mungbean seedlings affected by UV-B, drought and their combination		9	39255	SHUBHI DWIVEDI	Role of BBX22 in promoting UV-mediated DNA damage repair in Arabidopsis	
4	39440	DEBOJYOTI KAR	Integrating the role of light to understand aluminium sensitivity in Arabidopsis roots		10	39107	VAIBHAV SHUKLA	Photochemical Screening of Valuable Herb Eclipta alba (L.) along with Traditional Medicinal uses across India.	
5	39375	DHEER AGNIHOTRI	Effect of crop geometry and different organic manures on growth and yield performance of Stevia rebaudiana Bertoni under Tectona grandis based Silvi-medicinal system		11	39186	VARSHA PANDEY	Effects of different pre-sowing seed treatments on the germination and growth performance of Abutilon indicum Linn.	
6	39279	MONIKA SHARMA	Analysis of fertigation and environmental effect on bioactive molecules accumulation in medicinal herb Brahmi (Bacopa monnieri L.)-cultivated, under, soilless system in comparison to conventional cultivation.						



Technical Session 3

Date: 22.02.2024 [10:00 - 11:30 AM]

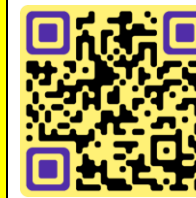
S.No.	Unique ID	Discipline: New Biology	VENUE
1	39143	ANNU RANI Deciphering the association of Epstein-Barr virus and its glycoprotein M146-157 peptide with neurological ailments at in-vitro and in-vivo level	Seminar Hall - X [Faculty-in-Charge: Ar. Satyam Shukla 94069-87708 Student Member: Ms. Shreya Sharma]
2	39471	ANUP KUMAR BISWAL Identification and characterization of aggregation-prone proteins in Arabidopsis thaliana	
3	39149	DHIRENDRA KUMAR Detection of Haemoglobin Variants and Hemoglobinopathies using HPLC and Clinical Profiling of the Tribal Population of Madhya Pradesh	
4	39228	KAPIL DATTATRAY URSAL Unlocking Secrets of Down Syndrome Associated DYRK1A with Computational Microscope: Exploring Phosphorylation-Driven Structural Dynamics	
5	39170	KHILESHWARI CHANDRAVANSI Structural and functional basis for substrate specificity in human cytosolic beta-alanyl-lysine dipeptidase (PM20D2)	
6	39316	MANISHA SHARMA SCREENING AND CHARACTERIZATION OF SOIL-BORNE CELLULASE-PRODUCING BACTERIA	
7	39272	MANSI CHATURVEDI Ternary Bio-inspired Nanocomposite based Electrochemical Immunosensor for Quantification and Detection of Dengue Virus	
8	39110	NABOMITA PAUL Pharmacokinetic attributes for natural and chemical anti-anemic agents with promising specific proteins by docking analysis.	



Technical Session 4

Date: 22.02.2024 [11:45 AM - 01:30 PM]

S.No.	Unique ID	Discipline: New Biology	VENUE
9	39244	NEHA SHRIVASTAVA DEVELOPMENT OF MATRIX-BASED ALGAL TECHNOLOGY FOR REMOVAL OF TOXIC NANOPARTICLES FROM WATER	Seminar Hall - X [Faculty-in-Charge: Ar. Satyam Shukla 94069-87708 Student Member: Ms. Shreya Sharma]
10	39192	POOJA RATRE Design and fabrication of a nanobiosensor for the detection of cell-free circulating miRNAs-lncRNAs-mRNAs triad grid	
11	39305	PRABHA DEVI SHARMA Development of Nested PCR: A robust molecular technique to identify bacteria spiked in Skimmed milk powder	
12	39306	SAKET SANDEEP SHROTRI When does a bee switch? Understanding the profitability of non-constant foraging in pollinators through Agent-Based Modelling	
13	39307	SUBHASMITA MAHAPATRA Discovery of Potential Inhibitors against FGFR1 through virtual screening, ADMET and Molecular Dynamics Studies	
14	39245	SURUCHI CHAUDHARY Biofabrication of bimetallic Silver-Platinum Nanoparticles using Ficus Religiosa Leaf Extract: A Novel Strategy against Wound-Associated Biofilm-Forming Pathogens	
15	39239	SWATI JAIN Insights into COX-2 Inhibition by Indole Alkaloids: A Molecular Docking Approach for Analgesic Discovery	
16	39262	VIKASH KUMAR VERMA A point-of-care and IoT-enabled MoS2 based sensor for uric acid detection in human serum	



S.No.	Unique ID	Discipline: Pharmaceutical Sciences	VENUE
16	39171	SAKSHI SONI Size-optimized methotrexate-loaded niosomes unlock deeper skin layers for enhanced cancer therapy.	Faculty Resource Centre [FRC] [Faculty-in-Charge: Dr. R.K. Dubey 94746-00968 Student Member: Ms. Suhani Jhawar]
17	39406	SATYAMSHYAM VISHWAKARMA DEORPHANIZATION OF ORPHAN GPR52 RECEPTOR IN-SILICO STUDIES	
18	39196	SHIVAM KUMAR KORI SYNTHESIS, BIOLOGICAL EVALUATION AND IN-SILICO ANALYSIS OF SOME NOVEL NITROGEN-CONTAINING HETEROCYCLIC COMPOUNDS	
19	39320	SHIVAM KURMI FORMULATION AND EVALUATION OF CLOTRIMAZOLE TOPICAL EMULGEL	
20	39276	SHIVANGI SHARMA Development of Novel Arg-Gly-Asp peptide & PLGA Nanoparticles for Brain Cancer Targeting using in silico Molecular Modelling Analysis	
21	39173	SUNNY RATHEE Formulation and characterization of leflunomide and resveratrol-loaded nanostructured lipid carrier-based in-situ hydrogel system for effective management of Rheumatoid Arthritis	
22	39222	SURABHI AGNIHOTRI One-pot multi-step method to synthesize novel 2-[(8-hydroxyquinolin-7-yl)(phenyl)methylamino]benzoic acid derivatives and their biological evaluation	



S.No.	Unique ID	Discipline: Pharmaceutical Sciences	VENUE
23	39250	SURBHI TOMAR FOLATE CONJUGATED SLNs FOR THE EFFECTIVE MANAGEMENT OF LUNG CANCER	Faculty Resource Centre [FRC] [Faculty-in-Charge: Dr. R.K. Dubey 94746-00968 Student Member: Ms. Suhani Jhawar]
24	39263	TEENA PATIDAR Development and Optimization of Quercetin and Beta Sitosterol Loaded Transethosomal System for Skin Cancer Delivery: in vitro Evaluation	
25	39156	VIVEK SINGH RAJPOOT Evaluation of in vitro antimalarial activity for Cissampelos pareira (L.)	
26	39328	YASH BHANDARI DESIGN AND INSILICO INVESTIGATION OF EFFECTIVENESS OF ARGEMONE MEXICANA FOR PHARMACOLOGICAL ACTIVITIES	
27	39396	YOGESH TIWARI ASSESSMENT OF THE COLON CANCER TARGETING POTENTIAL OF A 5-FU-LOADED HYALURONIC ACID-FUNCTIONALIZED MULTIWALLED CARBON NANOTUBE	



39th M.P. Young Scientist Congress & Science Festival - 2024

M.P. Council of Science and Technology
Vigyan Bhawan, Nehru Nagar, Bhopal (M.P.), 462003

HOSTED BY
Madhav Institute of Technology & Science
(A Government Aided UGC Autonomous Institute, Affiliated to R.G.P.V. Bhopal)
NAAC Accredited With A++ Grade
Gwalior (M.P.), 474005






39th M.P. Young Scientist Congress & Science Festival - 2024


M.P. Council of Science and Technology
Vigyan Bhawan, Nehru Nagar, Bhopal (M.P.), 462003

HOSTED BY
Madhav Institute of Technology & Science
(A Government Aided UGC Autonomous Institute, Affiliated to R.G.P.V. Bhopal)
NAAC Accredited With A++ Grade
Gwalior (M.P.), 474005




Technical Session 3	Technical Session 4
Date: 22.02.2024 [10:00 - 11:30 AM]	Date: 22.02.2024 [11:45 AM - 01:30 PM]

S.No.	Unique ID	Track 7 Discipline: Physical Sciences	VENUE	S.No.	Unique ID	Track 7 Discipline: Physical Sciences	VENUE
17	39277	PRAVEEN KUMAR LITORIYA Enhanced Photoluminescence Characteristics of Transition Metal-Doped Sr _{0.95} Al ₂ O ₄ :Eu _{0.05} Nanophosphors Synthesized via Urea Fuel Combustion Method	Conference Hall [Faculty-in-Charge: Dr. Aditya Dubey 62630-65605 Student Member: Ms. Mahi Soni] 	25	39361	SHUBHA DUBEY Tailoring the Structural and Electro-Optical Properties of Visible-Light Emitting BaZrO ₃ Photocatalyst: A Combined DFT and Extensive Experimental Study	Conference Hall [Faculty-in-Charge: Dr. Aditya Dubey 62630-65605 Student Member: Ms. Mahi Soni] 
18	39144	PRAVRATI TAANK Excitons and Rydberg Excitons in Alloy Transition Metal Dichalcogenides		26	39392	SONIA KAUSHIK Investigations of Metal-Organic structures for applications in Organic Spin Valve devices	
19	39289	PRERNA GUPTA Antibacterial and Photoluminescence Activities of ZnSe Nanostructures		27	39433	SUBHAJIT SUPAKAR Ultra-high vacuum pressure measurement using laser cooled atoms	
20	39465	RAJEEV JOSHI Strain engineering of magnetic and functional properties of FeRh		28	39260	SUBHO SAHA Electronic comprehension of exchange bias effect in Sr ₂ CoRuO _{6-δ} thin-film	
21	39385	RAKHUL RAJ Development of automated domain wall velocity measurement system and study of domain wall dynamics in Pt/Co/Pt ultrathin films		29	39281	TAUSIF ALAM Role of different ceramic dispersed solid polymer electrolytes in EDLC performance	
22	39315	RUCHI SINGH Application And Optical Properties of Chalcogenide Glasses		30	39358	VAISHALI AMRUTE Investigation of structural, optical and antibacterial properties of Ag doped ZnO nanoparticles	
23	39237	SHANKAR DUTT Study of the Structural, Optical, and Vibrational Properties in MAPb(Br _{1-x} Cl _x) ₃ (x= 0-1) Perovskites		31	39129	VINOD KUMAR Single-Wall Carbon Nanotube/VSe ₂ Nanohybrid for Ultrafast Visible to Near-Infrared Third-order Nonlinear Optical Limiting Application	
24	39136	SHILPA TIWARI Estimation of Dose deposition by high energy photon beam in an Inhouse Phantom					

S.No.	Unique ID	Track 8 Discipline: Chemical Sciences	VENUE
15	39453	SARRAH SAIFEE A low-cost Raman spectroscopy technique using multi-step synthesis of Gold nanoparticles for trace detection of dyes and pesticides with Machine learning based binary mixtures identification	Seminar Hall - V [Faculty-in-Charge: Ms. Surbhi Gupta 89623-17450 Student Member Mr. Ankush Babu Swarnkar] 
16	39256	SAURABH RAI Liquid-Liquid Phase Separation Induced Modulation in the Structure, Dynamics, and Enzymatic Activity of an Ordered Protein β-Lactoglobulin	
17	39194	SHIVANGI VYAS X-ray absorption spectroscopic study of copper(II) bis(N,N-diethyldithiocarbamate) using synchrotron radiation	
18	39184	SHRUTI JAIN Facile Synthesis of Pyranonaphthoquinones by Synergism of Ultrasound Irradiation and Biocompatible Inulin Biopolymer as Catalyst	
19	39325	VAIBHAV SHIVHARE Supramolecular Hydrogelation in the presence of Hydrohalic acids in 12-Hydroxystearic Acid derivatives: A Potential Weapon for Effluent Management	
20	39303	YAMINI PATEL Synthesis and In Vitro Antibacterial Studies of 5,6-Diphenyl-3H-pyrrolo[2,3-d]pyrimidin-4(7H)-One Derivatives Using Magnesium-doped Hydroxyapatite Nanocomposite	