

M.P. Council of Science & Technology, Bhopal

39th M.P Young Scientist Congress February 21- 23, 2024

Host: Madhav Institute of Technology and Science, Gwalior

List of M.P. Young Scientist Awardees

S.No.	Name	Discipline	Award	Institute	Title of the Paper
1	SALONI MANDLOI	Agricultural Sciences	First	COLLEGE OF AGRICULTURE, JAWAHARLAL NEHRU KRISHI VISWA VIDYALAYA, JABALPUR	Characterization of Colletotrichum truncatum associated with soybean anthracnose disease in soybean growing regions of Madhya Pradesh
2	MANOJ GOSWAMI	Chemical Engineering	First	CSIR-ADVANCED MATERIALS AND PROCESSES RESEARCH INSTITUTE, BHOPAL	Growth of CuS Nanowire Array on Cu-foam for the Fabrication of Binder and Additive Free Anode Electrode for Na-ion capacitor
3	BARSHA CHAKRABORTY	Chemical Sciences	First	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHOPAL	Polarity Under Arrest: From Simultaneous Dual Organelle Targeting to Track Ferroptosis via a Two-Photon Active Dioxaborine Probe
4	AYUSHI SINGHAL	Chemical Sciences	Second	CSIR – ADVANCED MATERIALS AND PROCESS RESEARCH INSTITUTE, BHOPAL	Molecularly Imprinted Polymer-based Plastic Antibodies for the Electrochemical Detection of Bisphenol-A: Robust and Economical Approach to Screen Environmentally Hazardous Substance
5	RISHABH AHUJA	Chemical Sciences	Second	RAJIV GANDHI TECHNOLOGICAL UNIVERSITY, BHOPAL	Chiral Harmony Mediated Mechanoresponsive Hydrogelators with Synergistic Antibacterial Performances: A Potential Therapeutic for Dermal Wound Healing
6	KULDEEP SINGH RAUTELA	Civil Engineering	First	INDIAN INSTITUTE OF TECHNOLOGY INDORE	Detection and Prediction of Aerosol Atmospheric Rivers (AARs) using Spatio-Temporal AAR Availability Prediction Model (ST-AARAPM)
7	KUNAL GUPTA	Civil Engineering	Second	INDIAN INSTITUTE OF TECHNOLOGY INDORE	Integrating Real-time Sensor Data for Improved Hydrogeotechnical Modelling in Landslide Early Warning in Western Himalaya

8	SHUBHANGI CHATURVEDI	Computer Science Engineering and Information Technology	First	PDPM INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFACTURING, JABALPUR	Vision Transformer based Lightweight Smoke Detection Model for Normal and Challenging Environment
9	ALKA RANI	Earth and Atmospheric Sciences	First	ICAR-INDIAN INSTITUTE OF SOIL SCIENCE, BHOPAL	Agricultural Drought Assessment over Madhya Pradesh using remote sensing – based Composite Drought Index
10	PRIYANKA ONKER	Earth and Atmospheric Sciences	First	GOVT. MOTILAL VIGYAN MAHAVIDYALAYA, BHOPAL	Geology, Petrology and Geochemistry of Meso to Neoproterozoic Sandstones of the Vindhyan Supergroup from the Murwara area, Katni District, Madhya Pradesh: Implications for depositional environment and provenance.
11	MAYANK DUBEY	Electrical and Electronics Engineering	First	INDIAN INSTITUTE OF TECHNOLOGY INDORE	IoT-enabled Soil Health Monitoring System for Sustainable Farming
12	PRIYA RANI	Environmental Sciences	First	DEFENCE RESEARCH & DEVELOPMENT ESTABLISHMENT, GWALIOR	Elucidation of peptide screen for targeted identification of Yersinia pestis in soil
13	APARNA SINGH	Home Sciences	First	GOVT. K.R.G. P.G (AUTONOMOUS) COLLEGE, GWALIOR	Development of Gluten Free Finger Millet Noodles incorporating Lepidium sativum L. seed gum
14	JYOTSNA KAWADKAR	Life Sciences	First	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHOPAL	Functional analysis of Nup107 unravels link between regular Drosophila metamorphosis and mammalian puberty
15	SHIVANI DIXIT	Life Sciences	First	DEFENCE RESEARCH & DEVELOPMENT ESTABLISHMENT, GWALIOR	Development and validation of streptavidin-biotin-based double antibody sandwich ELISA for ricin diagnosis
16	PREETI DEOLIA	Mathematical Sciences	First	ABV-INDIAN INSTITUTE OF INFORMATION TECHNOLOGY AND MANAGEMENT, GWALIOR	Implications of antibody-dependent enhancement in sequential flavivirus infection incorporating vaccination
17	ABHIMANYU BHARDWAJ	Mechanical Engineering	First	RAJA RAMANNA CENTRE FOR ADVANCED TECHNOLOGY, INDORE	Design and development of non-metallized feed-through

18	ARPIT KUMAR SINGH	Mechanical Engineering	Second	INDIAN INSTITUTE OF TECHNOLOGY INDORE	Development of ZnO Ceramic based Piezo-Tribo Hybrid Nanogenerator using Laser μ -3D printing for sustainable Energy harvesting from Flag Fluttering
19	LALITA KUSHWAH	Medical Sciences including AYUSH	First	JIWAJI UNIVERSITY, GWALIOR	Evaluation of wound healing potential of polyherbal ointment in an animal model and human subjects
20	MANSI CHATURVEDI	New Biology (Biotechnology, Biochemistry, Biophysics, Bioinformatics and Molecular Biology)	First	CSIR-ADVANCED MATERIALS AND PROCESSES RESEARCH INSTITUTE, BHOPAL	Ternary Bio-inspired Nanocomposite based Electrochemical Immunosensor for Quantification and Detection of Dengue Virus
21	POOJA RATRE	New Biology (Biotechnology, Biochemistry, Biophysics, Bioinformatics and Molecular Biology)	Second	ICMR - NATIONAL INSTITUTE FOR RESEARCH IN ENVIRONMENTAL HEALTH, BHOPAL	Design and fabrication of a nanobiosensor for the detection of cell-free circulating miRNAs-lncRNAs-mRNAs triad grid
22	SURABHI AGNIHOTRI	Pharmaceutical Sciences	First	DEFENCE RESEARCH & DEVELOPMENT ESTABLISHMENT, GWALIOR	One-pot multi-step method to synthesize novel 2-[(8-hydroxyquinolin-7-yl)(phenyl)methylamino]benzoic acid derivatives and their biological evaluation
23	RITIKA SAHU	Pharmaceutical Sciences	Second	RAJIV GANDHI TECHNOLOGICAL UNIVERSITY, BHOPAL	Ligand based pharmacophore identification, molecular dynamics simulation and in vitro in vivo validation of ECBD compounds against DPP-IV as anti-diabetic agents
24	SUNNY RATHEE	Pharmaceutical Sciences	Third	DR. HARISINGH GOUR VISHWAVIDYALAYA, SAGAR	Formulation and characterization of leflunomide and resveratrol-loaded nanostructured lipid carrier-based in-situ hydrogel system for effective management of Rheumatoid Arthritis
25	CHINMAY SAHU	Physical Sciences	First	BARKATULLAH UNIVERSITY, BHOPAL	Visible light-driven methylene blue degradation by polycrystalline Li ₆ CuB ₄ O ₁₀ photocatalytic compound
26	GEETANJALI VASHISHT	Physical Sciences	Second	RAJA RAMANNA CENTRE FOR ADVANCED TECHNOLOGY, INDORE	Impact of disorder on semiconductor quantum materials and devices

27	SONIA KAUSHIK	Physical Sciences	Third	UGC-DAE CONSORTIUM FOR SCIENTIFIC RESEARCH, INDORE	Investigations of Metal-Organic structures for applications in Organic Spin Valve devices
28	ALEENA XAVIER	Plant Sciences	First	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHOPAL	In the pursuit of 'species': genetic admixtures with local congeners result in taxonomic confusions in Hedychium spicatum (Spicatum complex, Zingiberaceae)
29	SHUBHI DWIVEDI	Plant Sciences	First	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHOPAL	Role of BBX22 in promoting UV-mediated DNA damage repair in Arabidopsis
30	RENUKA MISHRA	Veterinary Science and Animal Husbandry	First	COLLEGE OF VETERINARY SCIENCE AND ANIMAL HUSBANDRY, NDVSU, JABALPUR	Study of postpartum anestrus and its management using synchronization protocols in buffaloes
31	CHARU SHARMA	Veterinary Science and Animal Husbandry	Second	COLLEGE OF VETERINARY SCIENCE AND ANIMAL HUSBANDRY, NDVSU, JABALPUR	DEVELOPMENT OF LATERAL FLOW ASSAY FOR NON-INVASIVE PREGNANCY DIAGNOSIS IN FEMALE TIGERS (<i>Panthera tigris</i>)