DAY-1 (23 OCT 2024)

Abstract No.	Affiliations	Author	Abstract title	Poster No.	Display Board No.
I-1	PURCHASE	Venkitesh K. Mallan	Directorate of Purchase and Stores	1	1
A - 1	TIFR	Aastha Singla	Differential Effects of Voluntary Physical Exercise on Hippocampal Physiology in C57Bl/6N-derived Mouse Sub strains	2	2
A – 2	DCSEM	Ar.Anjali Ravikant Karda	Managing Tomorrows waste: Innovation in Urban Waste Management Technologies “Solid Waste Management facilities in Anushaktinagar-Striving towards Zero Waste”	3	3
A – 4	BBCI	Bhaveshwar Yadav	Estimation and verification of dose in blood irradiation by two different techniques	4	4
A – 5	TIFR	Bhavya Rajasree Bhaskar	Novel method to study the kinetics and structural transitions of the fusion pore opened by SNARE chaperones	5	5
A – 6	TMC	Dr Rashmisnata Barman	Prevalence and antibiotic resistance pattern of Escherichia coli isolated from Paediatric Oncology patients in a tertiary care Cancer Institute from North East India	6	6
A – 7	NCBS	Deepti Trivedi	Advancing Research Infrastructure and Services: Fostering Fundamental Research and Scientific Innovation at the National Centre for Biological Sciences (NCBS)	7	7
A-8	HBCHRC	Gunit Nongthombam	“Advanced Multicolor Flowcytometry indispensable Technology in diagnosis and monitoring Hematolymphoid neoplasms	8	8
A-11	TMC	Ninad Patil	3D-Printing a Flexible Surface Mould Brachytherapy Flap: Design, Fabrication, and Dosimetric Validation	9	9
A-13	BARC	Arvind Kumar	Insights into DNA Repair mechanisms in radioresistant cyanobacterium Nostoc PCC 7120	10	10
A-14	BARC	Prabhat K. Singh	Fluorimetry-based Heparin and Albumin Detection Instruments: Innovative Solutions for Clinical Diagnostics	11	11
A-16	TMH	Ramya Iyer	Molecular Pathology Quality Assurance Program (MPQAP) for solid tumor molecular diagnostics	12	12
A-18	TMC	Sharath Chandra Arandkar	Cancer Cells Can Corrupt Their Neighbours	13	13
B-1	NISER	Adithyan Puthukkudi	Terahertz Conductivity of Free-Standing 3D Covalent Organic Framework Membranes Fabricated via Triple-Layer-Dual Interfacial Approach	14	14
B-3	TIFR	Vasu Malhotra	Synthesis of Unprecedented Compounds Involving 5th and 6th Group Elements	15	15
B-4	NISER	Akshay Kumar Sahu	Probing Aromaticity with Supersonic Jet Spectroscopy	16	16
B-5	BARC	Amit Das	Structure-function studies on plastic degrading enzymes.	17	17
B-8	DCSEM	Azran Irfan Siddiqui	Managing Tomorrow’s waste: Innovation in Urban Waste Management Technologies Moving towards Zero Liquid Discharge: Liquid Waste Management in Anushaktinagar, Mumbai	18	18
B-11	UMDAE	Mahendra Patil	Development of Cross-coupling Reactions for Synthesis of Advanced Materials	19	19
B-14	BARC	Dr. N. K. Goel	Radiation grafted adsorbent based technology for wastewater treatment	20	20
B-24	TIFR	Vasu Malhotra	Synthesis of Unprecedented Compounds Involving 5th and 6th Group Elements	21	21
B-25	IPR	Vishal Jain	High Power Plasma Arc System and its application in 200 kg/hr Plasma Pyrolysis Plant for 5TPD Biomedical Waste Treatment Facility at Varanasi	22	22
B-2	NISER	Adrija Kayal	Dicarbatriphyrin (2.1.1) and its Carbacalix[1]phyrin Analogue: Structure-Property Relationships and Application as a Fe(III) Chemosensor	23	23
D-3	AECS	Dr. Asheesh Mishra	AI as Tool for Creating Digital Teaching Aids	24	24
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G-3	BARC	Vimalnath Nair	Production of Radioisotopes in Indian Research Reactors	26	26
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C-4	BRIT	Aaditya Shah	Development of novel technologies for Lu-177 and Y-90 based Therapeutic Nuclear Medicine applications	28	28
C-5	IGCAR	Arun Kumar Panda	Development of high-density WC pellets for Lower Axial Shielding of FBTR	29	29
C-6	TIFR	A. P. Krishnankutty	Configurable Slit Unit for the Multi Object Infrared Spectrometer	30	30
C-7	BARC	Ashok Badigannavar	Nuclear Agriculture: Developments and Accomplishments	31	31
C-8	TIFR	A. A. Shinde	Recent Developments at BARC-TIFR Pelletron Linac Facility	32	32
C-9	BARC	Dipak Kumar Mishra	Reactor anti-neutrino measurement with the ISMRAN setup at BARC	33	33
C-10	RRCAT	B. N. Upadhyaya	Development and Deployment of RRCAT Laser Technology in India Nuclear Program	34	34
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C-12	IGCAR	Radhakrishna B	Experimental implementation of quantum algorithms in linear optics	36	36
C-13	IGCAR	Balmukund Shukla	Developments and Studies on Structural Stability of Nuclear Materials at High pressure and Temperatures	37	37
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C-16	RRCAT	Ali Akbar Fakhri	Low emittance operation of Indus-2	40	40
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C-18	TIFR	Gaurav Bothara	QND Measurement of Tantalum-based Heavy Fluxonium Qubit	42	42
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C-22	BARC	Krishna Kumar Singh	Science Using MACE Telescope	44	44
C-23	IGCAR	K. Prabakar	Indigenous development of ultrafast and ultrasensitive humidity and temperature sensors using microcantilevers	45	45
C-24	IOP	Krishnamoorthi J	Exploring the Interior of Earth Using Atmospheric Neutrino Oscillations at IceCube DeepCore	46	46
C-25	NISER	Kuldeep Kumar Pal	CMS Outer Tracker Module Production and Integration at NISER	47	47
C-26	TIFR	Mandakini Ravindra Patil	First Level Calorimeter Trigger for CMS Experiment at HL-LHC	48	48
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C-28	TIFR	M. B. Naik	Infrared Astronomical Cameras and Instrumentation at TIFR, Mumbai	50	50
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C-31	RRCAT	Om Prakash	Development of Fiber Bragg gratings, Fiber Sensors and their Deployment in Nuclear and Industrial Environment	52	52
C-32	UMDAE	Padmnabh Rai	Growth and Applications of Quantum materials	53	53
C-33	IGCAR	S. Amirthapandian	Radiation Damage in Nuclearmaterials using Ion Beams - Developments & Experiments	54	54
C-73	BARC	Anurag Gupta	The Future of India's Nuclear Energy Independence: Large scale thorium utilization via Molten Salt Breeder Reactors (MSBRs)	55	55
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C-78	SINP	Koustav Pal	Exploring the origin of exchange bias and spin glass behaviour in 6H Hexagonal perovskite structure	59	59
C-83	SINP	Tukai Singha	Modulating Electronic Structure of Metal Nanostructures through Strain Engineering to Enhance Electrocatalytic Properties	60	60
C-86	TIFR	Rajarshi	Fluid acceleration hinders caustics for finitely dense particles	61	61
C-87	TIFR	Brijesh K Patel	Next Generation Soft Semiconductor: Challenges and Opportunities	62	62
G-5	HBCH&RC	Taushiful Hoque	Clinical Use of Indigenous Telecobalt machine: 5 Year Institutional experience	63	63
G-6	TMC	Rachel Sequeira	AI in Medical Imaging: Improving Diagnostic Accuracy and Operational Efficiency	64	64
D-6	AEES	Sona O K	Integrating ICT Tools in Education for AEES Schools: A Vision for the Future	65	65
C-92	TIFR	Vikas bhat	Quantum Experiments: From Communication to Coherence	66	66

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A-19	UMDAE	Siddhesh B. Ghag	Unearthing the molecular insights into tropical diseases of plants and animals	67	2
A-21	HBCH	Dr. Souptik Majumder	Establishing Individualized Bladder Filling Protocol for Delivering IMRT In Radical Chemoradiation of Cervical Malignancies: A Feasibility Study	68	3
A-22	UMDAE	Subhojit Sen	A Discovery, Drug-Screening, and Delivery pipeline against Human diseases	69	4
A-23	HBCHRC	S V Ramana Murthy	Estimation of airborne contamination during therapeutic radioiodine-131 (I-131) administration of capsules and solution form: A comparison study	70	5
A-25	SINP	Tarit Sarkar	Optimizing reconstitution conditions for MgtE from Bacillus firmus in nanodiscs: A comparative study with membrane mimetics	71	6
A-31	NCBS	Chitthavalli Y. Harshith	Peptide-mediated signal relay dictates transition of wound responses through rice PSK receptor, OsPSKR	72	7
A -37	NCBS	Mahi Bansal	Biogeographic evolution of Tropical Rainforest	73	8
A – 3	NISER	Arka Jyoti De	The Impact of Altered Peripheral Clock and Gut Dysbiosis on NAFLD	74	9
A-9	NISER	Jiban Mishra	Understanding roles of canonical and non-canonical molecular mechanisms in bacterial survival	75	10
A-10	NISER	Kshyama Subhadarsini Tung	Cell-mediated immune regulation during experimental immune-activation and immune-suppression: Implication in designing strategies for future immunotherapy	76	11
A-15	NISER	Puja Sahu	Role of Light-Dependent Signalling on Anthocyanin Accumulation in Purple Tomato	77	12
B-6	NISER	Ankita Panda	Modified DNA i-motif: Synthesis and Biochemical Evaluation of troponyl DNA C-Rich Sequences	78	13
B-7	NISER	Asit Baran Mahato	Extended Temporal Analysis of Blinking Dynamics in CdSe/ZnS Core-Shell Quantum Dots via Scanning Fluorescence Correlation Spectroscopy	79	14
B-9	NISER	Joyoti Ghosh	Understanding the Photophysical Behaviour of Some Organic and Inorganic Nano Materials in the Absence and Presence of Some Important Analytes	80	15
B-10	NISER	Loknath Patro	Effect of Chain length on the aggregation properties of Surfactin: A Molecular Dynamics Study	81	16
B-12	NISER	Manas Kumar Sahu	Cobalt-Catalyzed Reduction of Esters to Alkanes	82	17
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B-17	NISER	Rakesh Kumar Behera	Charge Carriers Dynamics in CsPbBr3-PbSe Epitaxial Nanocrystal Heterostructures	86	21
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E-7	NISER	Priyanka Baghel	Exoplanets and the Search for Habitable Worlds	90	25
G-4	BARC	Vimalnath Nair	Affordable Radiopharmaceutical Products Developed in BARC	91	26
C-35	IGCAR	Rajendra Prasad P	Experiences on Remote Chemical Plugging of Leak in Biological Shield Cooling System of PFBR	92	27
C-36	IOP	Shradhha Suman Panigrahi	Data logger and Cloud Controller and Monitor	93	28
C-37	ICTS-TIFR	Prateek Anand	Motion of anisotropic particles settling in turbulence	94	29
C-38	RRCAT	Praveen Mohania	Superconducting cavity activities and development of RF technology at RRCAT	95	30
C-39	TIFR	Shuvadip Pradhan	Beyond Conventional Lithium-Ion Batteries	96	31
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C-41	BARC	S G Singh	Single Crystals and Radiation Detectors	98	33
C-42	BARC	Rajeev Ranjan Prasad	A Comparative Study of Structural Materials Damage using NRT and Athermal-Recombination Model for FBR	99	34
C-43	IGCAR	Authors: Raju Mandal	Celestial Holography: An Attempt to Understand Quantum Gravity in Asymptotically Flat Spacetime	100	35
C-45	RRCAT	Ratiranjan Samal	Topological Magnetism and Skyrmion Dynamics in Advanced Magnetic Materials: Insights into Magneto-Transport and Spintronic Applications	101	36
C-48	IGCAR	Ritam Kundu	Precision measurements of neutrino oscillation parameters	102	37
C-49	IOP	Ruta Kulkarni	Exploring Magnetism and Superconductivity through High-Quality Single Crystals	103	38
C-50	TIFR	Sachiraj Mishra	Reaching Curzon-Ahlborn limit in linear response and Whitney limit in nonlinear response in edge mode quantum thermoelectrics and refrigeration	104	39
C-52	TIFR	Saquib	Development of Low Dose Irradiator (LDI-1000)	105	40
C-55	BARC	Shankar Lal	The IR-FEL at RRCAT: An Enabling Facility for Basic Sciences	106	41
C-56	RRCAT	Sharmistha Chattopadhyay	Unraveling internal structure of the Earth using atmospheric neutrino oscillations in IceCube DeepCore	107	42
C-57	IOP	Sachin Kumar Agrawal	RRCAT developed machine vision systems for precision metrology of nuclear reactor fuel, components and assemblies	108	43
C-58	RRCAT	Satyanarayan	Atomic Force Microscopy – Imaging and Force Spectroscopy	109	44
C-59	SINP	Sourav Mondal	Dynamic Strain-Engineered Plasmonic Nanostructures for Enhanced Electrochemical Oxygen Reduction and High- Performance alkaline membrane H2 Air Fuel Cells	110	45
C-61	TIFR	Sushma Kundu	One-Pot Synthesis of Plasmonic Black Gold Nanoparticles for Efficient Photocatalytic Activity	111	46
C-62	UM-DAE	Ameeya Bhagwat	Theoretical Sciences at CEBS	112	47
C-64	TIFR	Venkateswara Rao Tanneeru	Balloon Facility of Tata Institute of Fundamental Research: pivotal role in advancing scientific research through balloon borne experiments	113	48
C-66	BARC	Tushar Roy	Development and Deployment of Portable D-T Neutron Generator	114	49
C-67	IGCAR	Arjun V	Development of Advanced Eddy Current Nondestructive Evaluation Techniques for Nuclear Components	115	50
C-68	IGCAR	E. Vetrivendan	Development of Ceramic and Pyrolytic Graphite Coating for Pyrochemical Reprocessing and Reactors Applications	116	51
C-69	BARC	Anurag Gupta	BARC's High Temperature Reactor Development program with Intermediate (GCR) and High Temperature (HTR) concepts	117	52
C-70	IGCAR	V V Jayaraj	Microstructural Characterization of Irradiated FBR Fuels and Structural Materials	118	53
C-72	BHAVINI	Aravinda Pai	Experience gained during testing, repair and qualification of Intermediate Heat Exchangers during the commissioning phase of PFBR	119	54

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I-1	PURCHASE	Venkitesh K. Mallan	Directorate of Purchase and Stores	1	1
A-17	NISER	Ranjita R. Samal	Structure-Function-Dynamics of PL-5 family proteins and Protein design	125	2
A-20	NISER	Soumalya Chakraborty	Addressing Bottlenecks in Drug Discovery Pipeline for Better Therapeutics	126	3
A-12	NISER	Parnasree Mahapatra	Cell biology lab: Understanding of TRP ion channels for better health	127	4
A-24	NISER	Talina Mohapatra	Decoding the Regulatory Network of Cancer Hallmarks through FRG1, IQGAP2, and EEF1A2: Cancer Genomics and Genetics Group Research Overview	128	5
A-26	NISER	Tuhina Mitra	Amyloid-β Mediated Modulation of TREK1 Ion Channel in Alzheimer's Disease	129	6
A-27	NISER	Lipsa Sahoo	Decoding the complexity of aging disorders through investigation of genetic and epigenetic regulators	130	7
A-28	NISER	Debraj Koiri	Host membrane sculpting and remodeling by Mycobacteria	131	8
A-29	NISER	Aman Kumar	Plant Biology lab: Understanding Plant Development under climate change	132	9
A-30	NISER	Aranya Pal	At a Glance- Cancer and Molecular Signalling Lab, NISER	133	10
A-33	NISER	Nivedita Mitra	Molecular Insights of Polymerisation in Different Plasmid Segregation Systems	134	11
A-34	NISER	Snehal Balaso Bhongale	Conformational dynamics of viral molecular machines in viral entry and genome replication	135	12
A-35	NISER	Srijanee Mitra	Understanding how novel selection pressures shape biodiversity and ecosystem sustainability	136	13
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B-19	NISER	Sayantan Mukhopadhyay	Main Group Metal Complexes: Synthesis, Reactivity, and Catalytic Applications	139	16
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