Posters presenters_TIFRH In-House Symposium 2025

Sr. No.	Name of the poster presenter	Title of the poster
IVO.	presenter	Finite-Size Scaling in the Aging Dynamics of a Glass-Forming
1	Santu Nath	Liquid
_	Janea Hatii	Understanding emergence of apico-basal polarity and
2	Aaheli Shee Burman	progressive epithelialization using otic-epidermal organoids
3	Riya Verma	Effects of resetting in a model with quenched disorder
	Triya verma	Actin Relocalization Driven Cellular Rearrangements During
4	Sanak Banerjee	Non-Neural Ectoderm Morphogenesis
_	Sariak Barierjee	Regulatory Dynamics of Ribonucleotide reductase in DNA
5	Marwa	Damage Responses
6	Arun Kumar Manna	Light-activated nanopores in gas-permselective membrane
	/ Warriamar Marina	Non-Linear pulse compression using multi-pass gas cell to
7	Rishi Mukherjee	overcome pulse energy and repetition rate limitation
	The intermediate	Mechanistic Insights into Shape-Selective Molecular
		Recognition through Rotational Dynamics in MOFs using Ab-
8	Komal Jindal	initio molecular dynamics
		A Synthetic Fluorescent Peptide for Live and Fixed Imaging of E-
9	Shirshadri Chakraborty	Cadherin in Cell and Tissue Systems
		Deciphering the minimal functional domain of PfRALP1, an
10	Akash Narayan	indispensable malaria parasite protein
		Investigating the first electron transfer in CytochromeP450cam
11	Ananya Nayak	catalytic cycle
12	Akta Singh	Spatiotemporal Dynamics in Supramolecular Polymers
		Ion-selective mixed matrix membrane using functionalized
13	KM. Archana Yadav	Metal Organic Framework
		Enhancing NMR Shielding Predictions of Atoms-in-Molecules
		Machine Learning Models with Neighborhood-Informed
14	Surajit Das	Representations
		Unlocking inverted singlet-triplet gap in alternant hydrocarbons
15	Atreyee Majumdar	with heteroatoms
		Polyvalent thioester as chemical connectors: Towards synthesis
16	Arighna Sarkar	of homo/hetero peptide or protein multimeric units
		What does city living do to behaviour and physiology of a
17	Swathi C S	nocturnal bird?
18	Hridey Narula	Liquid-Phase Energy Transfers in Bubbly Flows
		Cnpy1 is a candidate endoplasmic reticulum chaperone of
19	G V S Devakinandan	Vomeronasal type 2 GPCRs.
20	Padmanabha Bose	Ring polymers: a model with diverse phases and applications
		C6 alkane isomer diffusion selectivity in the oriented
21	Susmita Kundu	nanochannels of MOF thin films
		From Hover to Hibernate: Transcriptomic Architecture of Torpor
22	Harsha Kumar	in a Tiny Endotherm
		Investigating the role of IDRs in SIRT1 for transcription factor
23	Sourankur Chakrabarti	recruitment during physiological transitions
		Fluorescence quenching in a confined environment of a metal-
24	Bijan Sarkar	organic framework

		Protease evolution for inhibition of immune checkpoint
25	Sheetal Chawla	interaction
		Modulating MOF Photoresponse via Donor-Acceptor Interaction
26	Rajarshi Ghosh	for Polarity-Based Molecular Sensing
27	Soni Prajapati	Clustering Behaviour of ABPs in 2D setup
		Constitutive model for discontinuous shear thickening in
28	Tanmoy Ghosh	epithelial tissues
		From cytoskeleton to genome protector : Role of nuclear actin
29	Zeba Rani	in DNA damage repair
		Impact of Extracellular Matrix Remodeling on Epithelial Defence
30	Pratikshya Pattnaik	Against Cancer
31	Resmi Bera	Regulation of SOCE by Unc13D
		"Investigating the role of Syntaxin-11 in immunodeficiency and
32	Abhikarsh	peripheral immune tolerance."
		The active site lysine residue is a key contributor in determining
33	Srita Dutta	the stereoselectivity of DERA
		Mic19 controls the kinetics of membrane remodelling mediated
34	Arko Guha	by Mic60
35	SK Yasir Hosen	Life without Polyphosphates
36	Shivang Mathur	Interaction induced topological phase in a 1-D heterostructure
37	Binayak Banerjee	Biomechanics of phagocytosis and trogocytosis
		Fluctuating hydrodynamics and steady-state correlations in the
38	Shilpa Prakash	Light-Heavy model
39	Prithvi Bhat	Appearance of pseudogap in SYK model with superconductivity
		Quantum Phase Transition between Spin-glass and Dimer
40	Projjwal Kanti Kanjilal	Quantum Phase of interacting Sachdev-Ye layers
		Quantitative Inference of Cell Adhesion from Cell Shape and
41	Satyam Pandey	Softness.
42	Mansi Tarani	Zero to ultralow field NMR
43	Chandankumar Hegde	Schemes of Atomic Magnetometry
		Catalysis by nanoporous MOF thin film in a cross-flow
44	suvendu panda	microfluidics
		Mode-coupling theory for aging in active glasses: relaxation
45	Soumitra Kolya	dynamics and evolution towards steady state
		Hibernation and daily torpor: Global and phylogenetic pattern
46	Sukhmeet Kaur	in mammals
		Mechanistic Basis of Mic10 Oligomerization and Cristae
47	Rakesh Mahato	Junction Formation
		Oxidative stress and G-quadruplexes in the regulation of
48	Shravasti Misra	transcription and translation
49	Pikaso Latua	Chemigenetic control over boosting phagocytosis in vivo
	Dum oot Daws st	Effect of persistent velocity correlations on dynamical
50	Puneet Pareek	heterogeneity of active glasses
FA	Harsha Charres	Exploring functions of polyphosphates(polyP) in Drosophila
51	Harsha Sharma	innate immunity
гэ	Conja Cantarnah Canarili	Impact of physiological transitions on metabolic and energetic
52	Sonia, Saptarnab Ganguly	heterogeneity in the small intestine
53	Sritama Datta	Investigating the role of STX11 in Store-Operated Calcium Entry
54	Rayantan Sadhukhan	Tuning the Electrocatalytic Hydrogen Evolution Reaction of

		Transition Metal Dichalcogenide Janus Structures by Solvent Treatment
		Signalling role of glycerophospholipids in neuro-immune
55	Sushreeta Chakraborty	interactions
33	Justineeta Chakiaborty	Nuclear morphodynamics guide competitive elimination of pre-
56	Praver Gupta	cancerous cells from Epithelia
30	riavei Gupta	Alcohol oxidation in cross-flow microfluidic reactor using MOF
57	Purabi Sarkar	as a heterogeneous catalyst
37	r diabi Sarkai	Femtosecond Laser Interactions with Water Microjets: From
58	sourabh singh	Nonlinear Optics to Relativistic Plasma Dynamics
30	Sourabit sitigit	GPCR-targeted imaging and manipulation of homeostatic
59	Swathi	microglia in living systems
33	Swattii	High-Power, Broadband, Deep-IR Femtosecond Optical
60	Kiran Kumar Panigrahi	Parametric Oscillator Based on CdSiP2
	Srishti Priya	Bidirectional Interplay of metabolism and alternative splicing
	Payal chaubey	Chemogenetic control of microglia phagocytosis
		Tweaking the Water Rigidity at Noble Metal Interfaces for
		Enhanced Alkaline Hydrogen Production via myo-Inositol
63	Nandita Mohandas	Coating - A Bioinspired Approach
		Development of MOF-coated capillary for micro volume sample
64	Tilottama Baisakhi	analysis
		Regulating Li Ion Transport via Solvent and Ions Clustering using
		Ternary Salts in Non- Fluorinated Solvents for Extended
65	Shuvadip Pradhan	Cyclability Zero Excess Lithium Metal Batteries
		Unlocking the Reactivity of CAAC-Based Diazoalkene towards
66	Vasu Malhotra	Heavier Chalcogens
67	Bijoy Chetry	Electron-Rich Carbon-Carbon Single Bonds
	,	Cycloaddition of CAAC- and NHC-Based Diazoalkenes with
		Diphosphene: Access to Electronically-Tunable Heterocycles and
68	Priyanka Sarkar	Alkenes
69	Ankita Mondal	Electron-Rich Alkene Based pi-(Non)-Conjugated Materials
70	Jay Phadke	Daily Torpor in Tropical Microbats
		Characterization of a free-flowing liquid sheet and plasma
71	Mukesh Kumar	mirror at high repetition rate (up to 10 kHz)
72	Sudip De	Triazenyl Radical: A New Class of n-type Dopant
		Making n-type (Semi) Conducting Polymer for Optoelectronic
73	Shreya Pandit	Devices
	Manjulika Mondal	Adduct Based n-type Dopant
75	Pratishtha Sharma	Basal regulation of mitochondrial biogenesis
	Ritwija Maity	Regulation of Mitofusin in neurodegenerative mutants.
77	Meera V, Abel Paul Joseph	Sb2S3 as a platform for reconfigurable nanophotonics.
	Priyankar Pandey	HHYPERBOLIC METAMATERIALS FOR ENHANCED SCINTILLATION
79	Dr. Pramod Kumar Sharma	A hybrid superconducting quantum circuits lab at TIFRH
		Enhanced Long Wavelength Mermin-Wagner-Hohenberg
	Antik Bhattacharya	Fluctuations in Active Crystals and Glasses
	Subhadip Pradhan	Disentangling Bias in Protein Dynamics Measured by MAS NMR
82	Rashmiranjan Bhutia	Diffusive Noise Controls Early Stage of Genetic Demixing