PSI2026 - Scientific Program

Day 1: Thursday 12th November 2026

Time		Title of the Talk and Speaker Name / Details
08.00 AM to 09.00 AM	Registration	
09.00 AM to 09.30 AM	Welcome address & Inauguration	
Inaugural / Plenary Session 1		
	Session Chairs	1. Dr. Sanghamitra Pati, ICMR-NIHR, Bhubaneswar
09.30 AM to 10.10 AM	PL-01	Phenome-India: How Nutritional Status Shapes Metabolic Health Differently in Men and Women *Dr. Shantanu Sengupta, CSIR-IGIB, New Delhi*
Session 1: Clinical Proteomics: Transforming Precision Medicine Through Translational Innovation - I		
	Session Chairs	1. Dr. B. Ravindran, Imgenex India, Bhubaneswar 2. Dr. Geetanjali Sachdeva, ICMR-NIRWoH, Mumbai
10.10 AM to 10.30 AM	KL-01	Proteogenomics and AI-Driven Precision Oncology for Brain Tumors *Dr. Sanjeeva Srivastava, IIT-Bombay, Mumbai*
10.30 AM to 10.50 AM	KL-02	Deep Proteomics and Multi-Omics of the Human Brain: From Synaptic Architecture in Schizophrenia to Molecular Mechanisms of Neurological Disease *Prof. T. S. Keshava Prasad, Nitte, Mangalore*
10.50 AM to 11.05 AM	IL-01	Dynamic β-Catenin Proteostasis: Uncovering a New Role in Cell-Cycle Regulation *Dr. Manas Santra, BRIC-NCCS, Pune*
11.05 AM to 11.15 AM	ST-01	Quantitative proteomics identifies possible flow of metastatic cues between progressive stages of colorectal cancer via transfer of ceramide-dependent exosomal cargoes *Dr. Dipanjana Ghosh, Rajiv Gandhi Proudyogiki Viswavidyalaya, Bhopal*
11.15 AM to 11.35 AM	**Break**	**Group Photo** **Exhibition, Networking & High Tea**
Session 2: Clinical Proteomics: Transforming Precision Medicine Through Translational Innovation - II		
	Session Chairs	1. Dr. Gopal Kundu, KIMS, Bhubaneswar 2. Prof. Sanjeeva Srivastava, IIT-Bombay, Mumbai
11.35 AM to 11.55 AM	KL-03	Learnings from the first phase of the BHARAT study: proteomics and multiparametric analysis of healthy aging in India *Dr. Deepak K. Saini, IISC, Bangalore*
11.55 PM to 12.15 PM	KL-04	A next frontier in proteomics: Towards fully de novo sequencing of endogenous antibodies *Prof. Albert Heck, Utrecht University, The Netherlands (Online talk)*
12.15 PM to 12.35 PM	KL-05	Integrative Proteomics in Liver Failure: From Molecular Signatures to Biomarkers, Therapeutic Response, and Precision Prognostication. *Dr. Nipun Verma, PGIMER, Chandigarh*
12.35 PM to 12.45 PM	ST-02	Characterization of hemoglobinopathy using highly multiplexed targeted mass spectrometry-based assay *Dr. Anikha Bellad, Institute of Bioinformatics, Bangalore*
12.45 PM to 01.00 PM	CL-01	Use of Zeno TOF 8600 in clinical proteomics and peptidomics analysis *Dr. Dipankar Malakar, Application Scientist, Sciex*
01.00 PM to 01.05 PM	Q/A for Research scholars (Co-ordinator: Dr. Rupesh Dash)	
01.05 PM to 01.45 PM	**Break**	**Lunch & Networking /** **PSI EC Meeting over the Lunch at the Committee Room, 4th Floor, Auditorium building)**
01.45 PM to 03.00 PM	**Poster session I** **(Theme: CP, ADHP, BSL, POF)**	

Session 3: Decoding Cellular Complexity: Advanced Proteomics in Health and Disease Biology		
	Session Chairs	1. Dr. Suman Kundu, BITS-PILANI, Goa 2. Prof. Ashis Kumar Mukherjee, IASST, Guwahati
03.00 PM to 03.20 PM	KL-06	G Protein - Coupled Estrogen Receptor 1 (GPER1) Activation Modulates Molecular Phenotype of Epithelial Cells and Proportions of Immune Cells in Precancerous Prostates *Dr. Gitanajali Sachdeva, ICMR-NIRWoH, Mumbai*
03.20 PM to 03.35 PM	IL-02	Development of Point-of-Care Non-Invasive diagnostics for the detection of early and active tuberculosis using interdisciplinary approach of Isothermal Nucleic Acid Amplification *Dr. Avinash Sonawane, IIT, Indore*
03.35 PM to 03.50 PM	IL-03:	Targeted Proteomic Profiling of Peripheral Blood Plasma Reveals Novel Diagnostic Markers for Gallbladder Cancer *Dr. Poonam Gautam, ICMR - National Institute of Pathology, New Delhi*
03.50 PM to 04.00 PM	ST-03	Mitochondrial proteomics reveals reduced expression of Oxidative phosphorylation and mitophagy proteins in the lungs of an acute asthmatic mouse model. *Dr. Sudipto Saha, Bose Institute, Kolkata*
04.00 PM to 04.10 PM	CL-02:	A cost-efficient, reliable and robust sample preparation platform enabling large-scale discovery proteomics *Dr. Nicolai Bache, Evosep, Denmark*
04.10 PM to 04.30 PM	**Break**	**Exhibition & High Tea**
Session 4: Plant Omics Frontiers: Systems: Level Insights into Growth, Stress, and Adaptation		
	Session Chair	1. Dr. Niranjan Chakraborty, BRIC-NIPGR, New Delhi 2. Dr. H. Nanaocha Sharma, BRIC-IBSD, Imphal
04.30 PM to 04.50 PM	KL-07	Leveraging AuNP-Protein Corona for Deep Proteomic Profiling and Stress Biomarker Discovery *Dr. Renu Deswal, University of Delhi, New Delhi*
04.50 PM to 05.05 PM	IL-04	Proteomic landscape of banana ripening: tissue-specific regulation from pre-climacteric to climacteric stages *Dr. Giridara-kumar Surabhi, Regional Plant Resource Centre, Odisha*
05.05 PM to 05.15 PM	ST-04	Unravelling the Role of a Cysteine Protease in Drought Resilience in Chickpea *Dr. Dipak Gayen, Central Uni. of Rajasthan, Bandar Sindri*
05.15 PM to 05.25 PM	ST-05	Systems-Level Profiling Identifies Peroxisome–Mitochondria Crosstalk and MGM1 Fusion Dynamics as Essential Longevity Determinants Under chronic ER Stress *Dr. Shuvadeep Maity, BITS -Pilani, Hyderabad*
05.25 PM to 05.30 PM	Q/A for Research scholars (Co-ordinator: Dr. Shantibhusan Senapati)	
Exclusive Session – PSI Oration 2026		
	Session Chairs	1. Dr. Shantanu Sengupta, CSIR-IGIB, New Delhi 2. Dr. Surekha Zingde, ex-ACTREC, Navi Mumbai
05.30 PM to 06.15 PM	**PSI Oration 2026**	
06.15 PM to 07.15 PM	**PSI Annual General Body Meeting** at Auditorium (For PSI members only)	
07.15 PM to 08.15 PM	**Cultural Program** at ILS Lawn	
08.15 PM to 10.00 PM	**Dinner** at ILS Lawn	

Day 2: Friday 13th November 2026

Time		Title of the Talk and Speaker Name
Plenary Session 2		
	Session Chair	1. Dr. Arun Bandyopadhyay, ex-Gujarat Biotechnology University, Gandhinagar
09.00 AM to 09.40 AM	PL-02	Leveraging Proteomics and Mass Spectrometry: From Discoveries to Translation *Dr. Akhilesh Pandey, Mayo Clinic, USA*
Session 5: Beyond Single Layers I : Multi-Omics Integration and Next-Generation Proteomics		
	Session Chairs	1. Dr. Ravi Sirdeshmukh, IOB, Bangalore & MSCTR, Bangalore 2. Dr. Soumen Chakraborty, BRIC-ILS, Bhubaneswar
09.40 AM to 10.00 AM	KL-08	Integrative Proteogenomic Analysis of Lung Adenocarcinoma Across Geographically Diverse Ethnicities and Exposures *Dr. D. R. Mani, Broad Institute of MIT and Harvard, USA*
10.00 AM to 10.20 AM	KL-09	Beyond Single Omics: Decoding Health and Disease through the Microbiome:Metabolome:Proteome Interface *Dr. Palok Aich, NISER, Bhubaneswar*
10.20 AM to 10.40 AM	KL-10	Beyond Cholesterol Storage: New Functions for Cholesteryl Esters in Immunity and Cell Biology *Dr. Siddhesh Kamat, IISER, Pune*
10.40 AM to 10.55 AM	IL-05	Lipids in the forefront: the new generation omics to identify non-invasive signatures for liver diseases. *Dr. Ujjaini Dasgupta, Ashoka University, Haryana*
10.55 AM to 11.05 AM	ST-06	Proteomic and Metabolomic Decoding of Hypoxic Extracellular Vesicles Reveals Metabolic–Epigenetic Coupling in Breast Cancer Progression *Dr. Ravindra Taware, NIPER, Ahmedabad*
11.05 AM to 11:15 AM	CL-03	Starting Right: Controlling Pre-Analytical Variability for Reproducible Proteomics Across Complex Biological Matrices *Dr. Debadeep Bhattacharyya, Covaris, USA*
11.15 AM to 11.20 AM	Q/A for Research scholars (Co-ordinator: Dr. Sunil Raghav)	
11.20 AM to 11.40 AM	**Break**	**Exhibition & High Tea**
Session 6: Student Flash Talks		
	Session Chairs	1. Dr. Mahesh J. Kulkarni, CSIR-NCL, Pune 2. Dr. Tushar Kanti Maiti, RCB, Faridabad
11.40 AM to 01.00 PM	**Flash Talks** - Shortlisted for Abstract (Each 5 min Talk + 2 min Q&A)	
01.00 PM to 01.45 PM	**Break**	**Lunch & Networking**
01.45 PM to 03.00 PM	**Poster session II (Theme: DCC, EMO, TIP)**	
Session 7: Beyond Single Layers II : Multi-Omics Integration and Next-Generation Proteomics		
	Session Chairs	1. Prof. Abhijit Chakrabarti, RMVERI, Howrah 2. Dr. Pardeep Kumar Bhardwaj, BRIC-IBSD, Imphal
03.00 PM to 03.15 PM	IL-06	Nutritional immunity in Tuberculosis *Dr. Ranjan Nanda, ICGEB, New Delhi*
03.15 PM to 03.25 PM	ST-07	Proteogenomic Analysis of Angomonas deanei to improve its genome annotations *Dr. Harsh Arvind Pawar, IOB, Bangalore*

03.25 PM to 03.35 PM	ST-08	Metabolite signatures in postpartum prediabetes and diabetes among Indian women with prior Gestational Diabetes Mellitus: Insights from CHIP-F Study *Dr. Ambika Singh, THSTI, Faridabad*
03.35 PM to 03.45 PM	ST-09	Proteomic profiling reveals TGFβ-1 driven extracellular-matrix remodelling in recurrent non-functioning pituitary neuroendocrine tumours *Dr. Ashutosh Rai, Panjab University, Chandigarh*
03.45 PM to 03.55 PM	ST-10	A novel β-MSP–AKAP-4 signaling axis regulates sperm capacitation and is remodeled in oligoasthenozoospermic spermatozoa *Dr. Abhijit Sarma, ICMR- National Institute for Research on Women's Health, Mumbai*
03.55 PM to 04.05 PM	ST-11	Human Herpesvirus-4 infection in host cell and modulation of cell cycle regulatory proteins *Dr. Sushil Kumar Sahu, Visva-Bharati, Santiniketan*
04.05 PM to 04.15 PM	CL-04	Advancing 4D Omics Through Next-Generation timsTOF Mass Spectrometry and GPU Powered ProteoScape Bioinformatics Tools for Advanced Data Analytics *Dr. Venkatesh Sankarasetty. Application Specialist. Bruker, India*
04.15 PM to 04.30 PM	**Break**	**Exhibition & High Tea**
Session 8: Proteomic Insights into Animal Diseases and Host-Pathogen Interactions		
	Session Chairs	1. Dr. Kiran S. Ambatipudi, IIT, Roorkee 2. Dr. Manaswini Mangaraj, AIIMS, Bhubaneswar
04.30 PM to 04.50 PM	KL-11	Identification and analysis of bovine sperm proteins for separation of X and Y chromosome bearing spermatozoa *Dr. Ashok Kumar Mohanty, ICAR-Central Institute for Research on Cattle, Meerut*
04.50 PM to 05.05 PM	IL-07	Tick protease inhibitors and it is interference with complement inhibition *Dr. Anand Srivastava, BRIC-NIAB, Hyderabad*
05.05 PM to 05.15 PM	ST-12	A Proteomic Fingerprint of Yellow Fever Virus: High-Resolution LC-MS/MS Identification of Unique Viral Peptides *Dr. Sonam Sihag, DRDE-DRDO, Gwalior*
05.15 PM to 05.25 PM	CL-05	*Olink Proteomics - Scientific Perspectives and Global Case Studies.* *Dr. Satishkumar Bhaskaran, Sr. Application Scientist, ThermoFisher Scientific India*
05.25 PM to 05.30 PM	Q/A for Research scholars (Co-ordinator: Dr. Sanjeeb Kumar Sahoo)	
Plenary Session 3		
	Session Chair	Dr. Srikanth Rapole, BRIC-NCCS, Pune
05.30 PM to 06.10 PM	PL-3	Tumor AADAT loss unleashes malate to activate the immune microenvironment and enhance checkpoint blockade response in triple-negative breast cancer *Dr. Arun Sreekumar, Baylor College of Medicine, USA*
07.00 PM to 10.00 PM	**Banquet Dinner**	

Day 3: Saturday 14th November 2026

Time		Title of the Talk and Speaker Name
Plenary Session 4		
	Session Chair	1. Dr. Swasti Raychaudhuri, CSIR-CCMB, Hyderabad
09.00 AM to 09.40 AM	PL-4	Multi-omics Atlas of Regular Exercise *Dr. Satchidananda Panda, Salk Institute, USA*
Session 9: Environmental/Marine & Ecology Omics: Mapping Interactions Across Ecosystems		
	Session Chairs	1. Prof. Subhra Chakraborty, BRIC-NIPGR, New Delhi 2. Dr. Ashok Giri, CSIR-NCL, Pune
09.40 AM to 10.00 AM	KL-12	From Genomic Mining to Commercial Bio-Assets: An Integrative Multi-Omics Approach to Unlocking India's Marine Biotech Potential *Dr. Debasis Dash, BRIC-ILS, Bhubaneswar*
10.00 AM to 10.15 AM	IL-08	'CIFA:ArguVax-I' - A novel vaccine against the fish ectoparasite, Argulus siamensis developed through immunoproteomics *Dr. Jyotirmaya Mohanty, ICAR-CIFA, Bhubaneswar*
10.15 AM to 10.30 AM	IL-09	Protein–microplastic interfacial interactions: Conformational perturbation and altered catalytic kinetics of catalase. *Dr. Umakanta Subudhi, CSIR-IMMT, Bhubaneswar*
10.30 AM to 10.45 AM	IL-10	Circulating Proteomic Signatures of Silica Exposure and Silicosis Progression: Probable Candidate Markers for Early Detection among Indian Workers *Dr. Nibedita Naha, ICMR- NIOH, Ahmedabad*
10.45 AM to 10.55 AM	ST-13	Proteomics to Therapeutics: Identifying molecular targets and antioxidant compounds for mitigating environmental stress in *Labeo rohita* *Dr. Mohan Badhe, ICAR-CIFA, Bhubaneswar*
10.55 AM to 11.00 AM	Q/A for Research scholars (Co-ordinator: Dr. Gulam H. Syed)	
11.00 AM to 11.30 AM	**Break**	**Exhibition, Networking & High Tea**
Session 10: Decoding Protein Assemblies: Omics, Aggregation, and Biomolecular Architecture		
	Session Chairs	1. Prof. Jagneshwar Dandapat, Utkal University, Bhubaneswar 2. Prof. Sharmistha Dey, AIIMS, New Delhi
11.30 AM to 11.50 AM	KL-13	From viral transmission to antiviral intervention: Proteomic insights into the modifications of virus-cell interaction during Chikungunya virus infection *Dr. Soma Chattopadhyay, BRIC-ILS, Bhubaneswar*
11.50 AM to 12.00PM	ST-14	A benzothiazole dye grafted system for the screening of Amyloids in peptide drugs and biologicals: A rapid quality check system *Dr. Priyankar Sen, VIT, Vellore*
12.00PM to 12.10PM	ST-15	Architects of Aggregation: Novel Protein Partners Stabilizing Aβ42 Fibrils in Alzheimer's Disease *Dr. Arun Kumar Upadhyay, IIT, Bhilai*
12.10 PM to 12.20 PM	ST-16	Physiological and pathological implications of ferritin self-assembly and its iron-incorporation ability: Native-PAGE Analysis *Dr. Rabindra Kumar Behera, NIT, Rourkela*
12.20 PM to 12.30 PM	ST-17	Droplets within droplets: Stoichiometry-dependent architecture of FG-Nup98 and tau condensates *Dr. Niharika Nag, Assam Royal Global University, Guwahati*
12.30 PM to 12.35 PM	Q/A for Research scholars (Co-ordinator: Dr. Narottam Acharya)	
12.45 PM to 01.30 PM	**Valedictory function** (Closing of PSI2026)	
01.30 PM to 02.30 PM	**Lunch**	