CENTENARY CELEBRATION OF BOSE INSTITUTE

1917-2017

List of Posters (24.11.2017–28.11.2017)

BOSE INSTITUTE CENTENARY CELEBRATION

Poster No	Faculty	Programme	Title
A-1	Amita Pal	I	**Molecular characterization of VmMAPK1 and deciphering its role in restricting MYMIV multiplication in tobacco** Anju Patel, Pankaj Kumar Singh, Shubho Chaudhuri and Amita Pal
A-2	Anupama Ghosh	I	**Induction of apoptosis-like cell death and clearance of stress-induced intracellular protein aggregates: dual roles for Ustilago maydis metacaspase Mca1.** Dibya Mukherjee, Sayandeep Gupta, Saran N, Rahul Datta, Anupama Ghosh
A-3	Debabrata Basu	I	**A multifaceted approach to unravel the signalling components of 'Black Spot' disease resistance in oilseed mustard** Mrinmoy Mazumder, Amrita Mukherjee, Banani Mondal, Swagata Ghosh, Aishee De and Debabrata Basu
A-4	Gaurab Gangyopadhyay	I	**Towards broadening the gene pool of few crop plants through molecular and transgenic breeding** Debabrata Dutta, Soumili Pal, Marufa Sultana, Vivek Arora and Gaurab Gangopadhyay
A-5	Dibyendu Narayan Sengupta	I	**Characterization and expression studies of 14-3-3 genes in indica rice grown under different abiotic stress** Niti Yashvardhini, Shubho Chaudhuri and Dibyendu Narayan Sengupta
A-6	Pallob Kundu	I	**Interrogating the gene-regulatory circuit active during pathogen and environmental stresses in tomato plant** Sayani Dey, Rohit Das, Shreya Chowdhury, Shrabani Basak, Supriyo Chowdhury, Jayanti Jodder, Sayan Mal, Arpita Basu Chowdhury, Deepti Sarkar and Pallob Kundu
A-7	Samir R. Sikdar	I	**Exploration of wild crucifer Rorippa indica in developing aphid tolerance in Indian mustard** Sayantan Ghosh, Sourav Bose, Poulami Sarkar, Lekha Bandopadhyay, Samir R. Sikdar
A-8	Sampa Das	I	**Mannose binding *Allium sativum* leaf agglutinin enhances biofilm formation by *Bacilus subtilis*, a beneficial rhizobacteria of rice** Akansha Jain, Surbhi Smriti and Sampa Das
A-9	Subho Chaudhuri	I	**Epigenetic regulations during plant response to developmental and environmental stimuli** Pratiti Dasgupta, Rwitie Mallik, Jinia Chakrabarty, Payel Ganguly, Adrita Roy, Amit Paul, Shubho Chaudhuri
A-10	Swati Gupta Bhattacharya	I	**Clinical and Biochemical Aspects of Respiratory and Food Allergens** Moumita Bhowmik, Sangeeta Roy , Subham Bhakta, Gaurab Sircar, Nandini Ghosh, Koyel SenGupta, Bijoya Karmakar, Moumita Biswas Sarkar, Sukhendu Maity and Swati Gupta Bhattacharya
B-1	Ajit B. Datta	II	**Eukaryotic Ubiquitome: Structures and beyond** Aditya Prasad Behera, Sayani Sarkar, Pritam Naskar, Shreyasi Dutta, Prerana Banka, Prateeka Borar, Ajit Bikram Datta
B-2	Anirban Bhunia	II	**Biophysical Characterization of Insulin Amyloid - Eukaryotic Model Membrane Interaction : Mechanism of Insulin Fibrillation and Membrane Disruption** Bhisma Narayan Ratha, DongKuk Lee, Anirban Bhunia
B-3	Manju Ray	II	**Methylglyoxal induces mitochondria dependent apoptosis in sarcoma and carcinoma** Anirban Roy, Alok Ghosh & Manju Ray
B-4	Moitri Basu	II	**Deciphering cancer from the perspective of epigenetic reprogramming** Nilanjana Maji, Swarnali Kar and Moitri Basu
B-5	Gautam Basu	II	**Rare Polypeptide Conformations Involving Proline** Chandradeep Basu, Himal Ganguly, Madhurima Das, Rubin Dasgupta, Gautam Basu
B-6	Smarajit Polley	II	**Understanding the Complexities in Specific Signaling Modules: A Structural and Chemical Biology Approach** Dwijit Guha Sarkar, Pranita Ray, Prateeka Borar, Trina Dutta, Bhawna Pandey, Deeparna Sutradhar, Smarajit Polley
B-7	Siddhartha Roy	II	**Cryo-EM Reveals Structural Changes of p300 upon Binding with p53** Raka Ghosh, Jayati Sengupta, Siddhartha Roy
B-8	Subhrangsu Chatterjee	II	**LINCRNA00273 promotes cancer metastasis and its G-Quadruplex promoter can serve as a novel target to inhibit cancer invasiveness** Samarjit Jana, Jagannath Jana, Kartick Patra, Soma Mondal, Jyotsna Bhat, Arnab Sarkar, Pallabi Sengupta, Anindya Biswas, Meghomukta Mukherjee, Satya Prakash Tripathi, Rahul Gangwal, Joyita Hazra, Abhay T. Sangamwar Gopeswar Mukherjee, Shamee Bhattacharjee, Deba Prasad Mandal and Subhrangsu Chatterjee
B-9	Pinakpani Chakraborti	II & III	**Understanding biology through structural prism** Supriyo Bera, Tanaya Chatterjee, Jesmita Dhar, Swapan Jana, Manish Sarkar, Shamila Sarwar and Pinak Chakrabarti
C-1	Shubhra Ghosh Dastidar	III	**BIM binding remotely regulates BAX activation: Study of Energetics** Souvik Sinha, Atanu Maity and Shubhra Ghosh Dastidar
C-2	Sudipto Saha	III & VI	**Systemic discovery of predictive biomarkers and novel drugs for asthma** Sreyashi Majumdar, Abhirupa Ghosh and Sudipto Saha
C-3	Tapash Ch. Ghosh	III	**The optimization of mRNA expression level by its intrinsic properties - insights from codon usage pattern and structural stability of mRNA** Manish Prakash Victor, Debarun Acharya, Tina Begum and Tapash Ch Ghosh
C-4	Zhumur Ghosh	III & VI	**Looking down the epigenetic landscape from pluripotent state to a differentiated state: In search of oncogenic perturbations** Aritra Deb, Arijita Sarkar, Byapti Ghosh and Zhumur Ghosh
D-1	Anup Misra	IV	**Efficient synthesis of the pentasaccharide repeating unit of the O-antigenic polysaccharide of Escherichia coli O166 strain** Anshupriya Si and Anup Kumar Misra
D-2	Atin Mandal	IV	**Indispensable role of Hsp90 co-chaperone Hsp70/Hsp90 organizing protein (HOP) in CRAF kinase functioning** Nilanjan Gayen, Sahana Mitra, Baijayanti Ghosh, Pramit Bhattacharjee and Atin K. Mandal
D-3	Gaurisankar Sa	IV	**Targeting Regulatory T-cells in the Tumor Microenvironment** Sayantan Bose, Dwaipayan Chakraborty, Dia Roy, Tania Sarkar, Sreeparna Chakraborty, Subhanki Dhar, Kirti Kajal, Deblina Guha, Taniya Saha, Debomita Sengupta, Ranjita Das, Subhadip Pati
D-4	Kaushik Biswas	IV	**Ganglioside GM2 mediated tumor growth, progression and metastasis involves YAP/TAZ-dependent transcriptional program** Barun Mahata, Manjari Kundu, Avisek Banerjee, Shibjyoti Debnath, Abhisek Sarkar, Elora Khamrui, Sohini Chakraborty, Zhumur Ghosh and Kaushik Biswas
D-5	Kuladip Jana	IV	**Inhibition of Cancer Progression by a Novel Trans-stilbene Derivative Through Disruption of Microtubule Dynamics, Driving G2/m Arrest And P53-dependent Apoptosis** Pravat Kumar Parida, Barun Mahata, Abhisek Santra, Anup Kumar Misra, Kaushik Biswas* and Kuladip Jana*
D-6	Mahadeb Pal	IV	**Azadiradione ameliorates neurodegenerative diseases in fly and and mouse models by potentiating DNA binding activity of heat shock factor 1** Asif Ali, Vinod Nelson, Naibedya Dutta, Suvranil Ghosh, Soumyadip Paul, Anup Misra and Mahadeb Pal
D-7	Parames C. Sil	IV	**Oxidative Stress induced pathophysiology and therapeutics** Sayantani Chowdhury, Sukanya Saha, Pritam Sadhulkhan, Sharmistha Banerjee, Shatadal Ghosh, Sumit Ghosh, Sayanta Dutta, Poulami Sarkar, Mousumi Kundu, Sushweta Mahalanobish, Sharmistha Chatterjee, Noyel Ghosh, Abhishek Kumar Das, Parames C. Sil
D-8	Parimal Sen	IV	**Understanding and Targeting the Calcium Signalling with Novel Di-Indolyl Methane (DIM) Derivatives to Control Growth and Migration of Breast Cancer Cells.** Supriya Chakraborty, Swatilekha Ghosh, Bhaswati Banerjee, and Parimal C Sen
D-9	Subrata Majumdar	IV	**Immune response during Visceral Leishmaniasis** Junaid Jibran Jawed, Prasanta Saini, Shabina Parveen, Suchandra Bhattacharyya Majumdar, Priyanka Bhowmik, Subir Kumar Juin, Sweta Ghosh, Trishna Mahanty, Nivedita Roy and Subrata Majumdar
D-10	Tanya Das	IV	**Is cancer a stem cell disease?** Poulami Khan, Apoorva Bhattacharya, Shruti Banerjee, Swastika Paul, Abhishek Dutta, Dipanwita Dutta Chowdhury, Udit Basak, Apratim Dutta, Arijit Bhowmik, Devdutt Mazumdar, Aparajita Das, Sourio Chakraborty and Tanya Das
E-1	Abhrajyoti Ghosh	V	**Deciphering the code behind prokaryotic stress responses and ecophysiology** Mousami Roy, Sayandeep Gupta, Chandrima Bhattacharyya, Shayantan Mukherji, Abhrajyoti Ghosh
E-2	Srimonti Sarkar	V	**The minimal ESCRT machinery of *Giardia lamblia* has altered inter-subunit interactions within the ESCRT-II and ESCRT-III complexes** Nabanita Saha, Somnath Dutta and Srimonti Sarkar
E-3	Subrata Sau	V	**Identification, purification and characterization of a cyclophilin from *Staphylococcus aureus*** Soham Seal, Debabrata Sinha, Subrata Sau
E-4	Sujoy Kr. Das Gupta	V	**Bacteriophages lead the way in our fight against TB** Sourabh Sammadar, Fatema Calcuttawala, Shreya Ghosh, Apurba Sarkar and Sujoy K. Das Gupta
E-5	Tapan Datta	V	**Biosensor for the Detection of 2-Nitrobenzoate: Inducible Gene Cluster is the Mere Prerequisite for the Development of a Functional Bioreporter** Satamita Deb[1], Soumik Basu[1], Achintya Singha[2], Mriganka Munshi Karmakar[1] and Tapan K. Dutta[1] *[1]Department of Microbiology, Bose Institute, Kolkata, India [2]Department of Physics, Bose Institute, Kolkata, India*
E-6	Wriddhiman Ghosh	V	**Constraints and opportunities governing habitability of biophysically-extreme environments: *peeping into ancient ecosystems*** Wriddhiman Ghosh, Masrure Alam, Prosenjit Pyne, Chayan Roy, Sabyasachi Bhattacharya, Moidu Jameela Rameez and Subhrangshu Mandal
F-1	Joyoti Basu	V & VI	**Transcription factors KLF4 ,C/EBP beta, and microRNA 26a regulate the survival of *Mycobacterium tuberculosis* in infected macrophages** Sanjay Sahu and Joyoti Basu
F-2	Manikuntala Kundu	V & VI	**Targeting multiple response regulators of *Mycobacterium tuberculosis* augments the host immune response to infection** Arun K Sharma and Manikuntala Kundu
F-3	Jayanta Mukhopadhyay	VI	**Developing a synthetic circuit to monitor the input-output robustness of a TCS (MprAB) signaling network in Mycobacterium tuberculosis** Arkajyoti Dutta, Tarunendu Mapder, Suman K. Banik and Jayanta Mukhopadhyay
C-2	Sudipto Saha	III & VI	**Systemic discovery of predictive biomarkers and novel drugs for asthma** Sreyashi Majumdar, Abhirupa Ghosh and Sudipto Saha
F-4	Suman Banik	VI	**Interplay of synergy and redundancy in diamond motif** Ayan Biswas and Suman K Banik
C-4	Zhumur Ghosh	III & VI	**Looking down the epigenetic landscape from pluripotent state to a differentiated state: In search of oncogenic perturbations** Aritra Deb, Arijita Sarkar, Byapti Ghosh and Zhumur Ghosh
G-1	Abhijit Chatterjee	VII	**The Quality of Air over Eastern Himalaya: Threats to Human Health and Climate** Abhijit Chatterjee, Sanat Kumar Das, Arindam Roy, Chirantan Sarkar, Debajyoti Ray, Abhinandan Ghosh, Ajay Kumar Singh, Sanjay Ghosh and Sibaji Raha
G-2	Achintya Singha	VII	**Exciton-Plasmon Coupling and Biomolecule Sensing in TMDs nanostructures Hydridized with Au Nanoparticles** Shib Shankar Singha, Tara Shankar Bhattacharya, Sreyan Raha, Achintya Singha*
G-3	Barun Chatterjee	VII	**Optical Detection Technique in the exploration of Bubble Nucleation in Superheated Drop Detector** Rupa Sarkar, Prasanna K. Mondal, Smriti Kana Sarkar and Barun K. Chatterjee
G-4	Dhruba Gupta	VII	**Nuclear reactions with ^{7}Be to study the cosmological lithium problem** Dhruba Gupta, Swapan K Saha
G-5	Dipankar Home	VII	**Quantum Foundations and Information: Basic Studies and Applications.** Debarshi Das, Som Kanjilal, Souradeep Sasmal, Dipankar Home
G-6	Parthasarathi Joarder	VII	**Selected Topics in Astroparticle Physics and Astrophysics** Sayan Biswas, Sanada Raychoudhuri, Pooja Bhattacharjee, Shubhrangshu Ghosh, Parthasarathi Joarder and Sibaji Raha
G-7	Rajarshi Ray	VII	**Properties of Matter Under the Strongest Force of Nature** Sumana Bhattacharya, Deeptak Biswas, Supriya Das, Sanjay K. Ghosh, Soumitra Maity, Sibaji Raha, Rajarshi Ray, Kinkar Saha, Subhasis Samanta, Pracheta Singha, Sudipa Upadhaya
G-8	Saikat Biswas	VII	**Micro-pattern gaseous detectors for high-energy physics experiments** S. Roy, S. Rudra, S. Shaw, R. P. Adak, S. Biswas, S. Das, S. K. Ghosh, S. K. Prasad, and S. Raha
G-9	Sanat Kr. Das	VII	**Role of Aerosols on Climate Change : Investigations through Earth's Radiation Budget** Sanat Kumar Das, Abhijit Chatterjee, Ajay Kumar Singh, Sanjay K. Ghosh, Sibaji Raha
G-10	Sanjay K. Ghosh	VII	**Detection of cosmic ray with active and passive detectors** S. Roy, S. Shaw, S. Chatterjee, P. Chawla, R. P. Adak, R. Bhattacharyya, A. Moulik, S. Biswas, S. Das, S. K. Ghosh, S. Raha, D. Syam
G-11	Sidharth K. Prasad	VII	**Exploring matter at extreme conditions using jets and photons with the ALICE experiment at LHC** Rathijit Biswas, Saikat Biswas, Supriya Das, Sanjay K. Ghosh, Sidharth K. Prasad, Sibaji Raha
G-12	Somshubhro Bandyopadhyay	VII	**Quantum Information: LOCC State Discrimination, Quantum Entanglement, Quantum Channels & Thermodynamics** Arkaprabha Ghosal, Abhishek Banerjee, Pratapaditya Bej, Prasenjit Deb and Somshubhro Bandyopadhyay
G-13	Soumen Roy	VII	**Networks: From adaptive landscapes to photoreceptors and image processing** Rajdeep Kaur Grewal, Saptarshi Sinha, Soumya Jyoti Banerjee and Soumen Roy
G-14	Supriya Das	VII	**Development of Straw tube detector, Cooling system and CRU for heavy ion experiments** S. Roy, N. Nandi, B. Bandopadhyay, D. Nag, S. Mukherjee, R. P. Adak, S. Biswas, S. Das, S. K. Ghosh, S. K. Prasad, S. Raha
G-15	Swapan K Saha	VII	**Coulomb dissociation of ^{9}Li** Swapan K Saha, Dhruba Gupta
G-16	Tripurari P. Sinha	VII	**A study on the optical properties of double perovskite oxide Sm_2NiMnO_6 and related potential applications** Md. Sariful Sheikh, Alo Dutta, Tushar Kanti Bhowmik, Mriganka Roy Basunia, and T. P. Sinha

A = Institutional Plan Project-I
B = Institutional Plan Project-II
C = Institutional Plan Project-III
D = Institutional Plan Project-IV
E = Institutional Plan Project-V
F = Institutional Plan Project-VI
G = Institutional Plan Project-VII

Underlined names indicate presenting author(s)