



**11th Symposium on Frontiers in Biomedical Research:
Challenges in human health: Diagnosis, Prevention and Care**



Monday, February 19 2018

Registration 9:00 A.M. – 10:30 A.M.

Inauguration 10:30 A.M. – 11:30 A.M.

Inaugural lecture: Seyed E Hasnain: *Tackling a super intelligent TB bacterium that takes one life every 15 seconds globally: Challenges Ahead*

High Tea 11.55 A.M. - 12.15 P.M.

Session I: Infectious Disease: Modulating genes for survival

Chair: Yogendra Singh, Dept. of Zoology DU		
IL-1	Pawan Malhotra, ICGB: Newer targets for drug development against malaria parasite and Hepatitis B Virus	12:15 pm - 12:40 pm
IL-2	Kailash C. Pandey, NIMR-ICMR: Role of proteases in Drug Discovery against Malaria	12:40 pm - 1:05 pm
IL-3	Jayantha Bhattacharya, THSTI: Characterizing circulating HIV-1 obtained from individuals who mount strong humoral immunity – translational insights	1:05 pm - 1:30 pm
OP-1	Brijendra Kumar Tiwari, ACBR DU: Mycobacterium tuberculosis subverts Ca⁺ signaling by inducing miR-30e expression in human dendritic cells	1:30 pm - 1:45pm
OP-2	Upasana Bandyopadhyay ACBR DU: Suppression of Toll Like Receptor 2 Mediated Pro-Inflammatory Responses by Mycobacterium tuberculosis Protein Rv3529c	1:45 pm - 2 :00 pm

Lunch: 2:00 P.M. – 2:45 P.M.

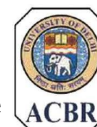
Poster Session 2:45 P.M. - 3:55 P.M. (Ends with Tea Break)

Session II: Innovative technology towards disease diagnosis

Chair: Seema Sood, Dept. of Microbiology, AIIMS		
IL-4	Sunil K. Verma <i>CSIR-CCMB: Understanding of Basic Signalling Pathways in Cancer: Towards Novel Diagnostics and Therapeutics</i>	3:55 pm - 4:20 pm
IL-5	M. Zahid Ashraf, Jamia-Millia Islamia: The NLRP3 Inflammasome: A Sensor for Vascular Perturbance?	4:20 pm - 4:45 pm
IL-6	Vinay Gupta, Dept. of Physics and Astrophysics DU: Development of flexible biosensors as a point-of-care diagnostic system	4:45 pm - 5:10 pm
OP-3	Alka Pawar, ACBR DU: Targeting Glutamate racemase of Mycobacterium tuberculosis: Experimenting new tricks over old enzyme to tackle antibiotic resistance menace	5:10 pm - 5:25 pm
OP-4	Deepali Joon ACBR DU: Evaluation of loop mediated isothermal amplification assay with GeneXpert MTB/RIF assay for diagnosis of tuberculosis	5:25 pm - 5:40 pm
OP-5	Kaushik Bhhatacharya, ACBR DU: Analysis of genome Variation and its functional implication in Clinical isolates of M. tuberculosis	5:40 pm- 5:55 pm



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Session III: Challenges in Translational Oncology

Chair: M.M. Chaturvedi, Dept. of Zoology, DU		
IL-7	Alo Nag , Dept. of Biochemistry DU South Campus: <i>Understanding the complexities of HPV oncogenesis to devise new treatment strategies</i>	9:15 am - 9:40 am
IL-8	Rohini Muthuswami SLS JNU: <i>Transcriptional regulation of the DNA damage response pathway by SMARCA1 and BRG1</i>	9:40 am - 10:05 am
IL-9	Paban Agarwala , INMAS: <i>a novel approach towards medical radiation countermeasure</i>	10:05 am - 10:30 am
OP-6	Parveen Kumar , Dayal Singh College DU: <i>Co-delivery of Vorinostat and Etoposide via Disulfide Cross-Linked Biodegradable Polymeric Nanogels: Synthesis, Characterization, Biodegradation, and Anticancer Activity</i>	10:30 am - 10:45 am
OP-7	Manasi Mittal , ACBR DU: <i>Profiling of Sin3B mRNA alternate splicing in oral squamous cell carcinoma (OSCC)</i>	10:45 am - 11:00 am

Tea Break: 11:00 A.M. – 11:30 A.M.

Session IV: Life style diseases: Challenges and Directions

Chair: Anurag Agrawal, CSIR-IGIB		
IL-10	Govind Makharia , Gastroenterology & Hepatology, AIIMS: <i>Discovery of biomarkers for assessment of enteropathy in patients with celiac disease</i>	11:30 am- 11:55 am
IL-11	Rajiv Narang , Cardiology AIIMS: <i>Lifestyle related cardiovascular diseases: Challenges in India</i>	11:55 am- 12:20 pm
IL-12	Seema Sehrawat , Shiv Nadar University: <i>Combination Therapy Inspired anti-Angiogenic in vitro approach for Triple Negative Breast Cancer Treatment</i>	12:20 pm- 12:45 pm
IL-13	Sanjeev Sengupta Army Hospital Kolkata: <i>Obesity-the pandemonium and the pandemic</i>	12:45pm - 1:05 pm

OP-8	Uma Dhawan , Bhaskaracharya College of Applied Sciences DU: Screening of environmental toxicants as risk factors for developing ALS	1:05 pm- 1:20 pm
OP-9	Akanksha , ACBR DU: Role of stress inducible non-coding gene <i>hsro</i> in development and characterization of its interactor <i>DNApol-ε^{pl10R}</i> in <i>Drosophila melanogaster</i>	1:20 pm - 1:35 pm

Lunch: 1:35 P.M. – 2:30 P.M.

Poster Session 2:30 P.M. - 3:55 P.M. (Ends with Tea Break)

Session V: Circumventing Neurobiological diseases

Chair: Shashi Bala Singh, DIPAS		
IL-14	Manjari Tripathi , Neurology AIIMS: Clinical research in epilepsy: What matters	3:55 pm - 4:20 pm
IL-15	P. N. Yadav , CSIR-CDRI: Kappa opioid receptor (KOR): Molecular target for Depression and Pain	4:20 pm - 4:45 pm
IL-16	Simantini Ghosh , Ashoka University: Inflammosomes are Closely Associated with Neuroinflammation in Mouse Models of Chronic Stress	4:45 pm- 5:10 pm
IL-17	Aparna Dixit , ACBR DU: Understanding the molecular mechanisms underlying epileptogenesis and/or drug-resistance in patients with Mesial temporal lobe epilepsy with Hippocampal sclerosis (MTLE-HS)	5:10 pm- 5:35 pm
OP-10	Shikha Kumari , ACBR DU: Discovery of Novel Methylsulfonyl Phenyl Derivatives as Potent Human Cyclooxygenase-2 Inhibitors with Effective Anticonvulsant Action	5:35 pm - 5:50 pm
OP-11	Daya Shankar Lal Srivastava , PGIMS Rohtak: Glutathione S-Transferase M1 and T1 Gene Polymorphisms in Patients with Acne Vulgaris: A Case-Control Study	5:50 pm - 6:05 pm
OP-12	Avadh K. Shah , Bussiness Development Division, Xcelris Labs Ltd., Ahmedabad, Gujarat: Interpretation of Human exome sequence data for genetic diseases and disorders	6:05 pm - 6:20 pm

Public Lecture by Prof. Samir Brahmachari 6:35 P.M. – 7:35 P.M.

Innovation in Healthcare: What it takes to bring ideas to market place!



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Wednesday February 21 2018

Session VI: Confluence of Traditional with Modern therapies

Chair: Shive M. S. Chauhan, Department of Chemistry, DU		
IL-18	Anil K. Mishra, INMAS: Conventional vs Receptor Directed Therapies: Track and Treat	9:15 am - 9:40 am
IL-19	Mitali Mukerji, CSIR-IGIB: Medicine for affordable health care in Indian population: the need for innovation	9:40 am - 10:05 am
IL-20	Madhu Chopra, ACBR DU: Mechanism Based Rational Design and Development of Drugs	10:05 am- 10:30 am
OP-13	Deepika Yadav, Shivaji College DU: Zoo therapeutics: A traditional and modern interface	10:30 am - 10:45 am
OP-14	Diksha Awadesh Verma, ACBR DU: Structure based Virtual Screening of Natural Compounds against Epithelial to Mesenchymal transition (EMT) Receptors in Cancer	10:45 am - 11:00 am

Tea Break: 11:00 – 11:30 AM

Session VII: Mining for lead molecules: Novel approaches to drug discovery

Chair: Vani Brahmachari, ACBR DU		
IL-21	Prasad V. Bharatam , <i>Department of Medicinal Chemistry NIPER: Design and synthesis of GSK-3β inhibitors as anti-diabetic agents</i>	11:30 am - 11:55 am
IL-22	B. Jayaram , <i>IIT-Delhi: Genomes to Hit Molecules In Silico - An Update Integrating Chemistry with Biology & IT: Towards a Disease-Free Planet</i>	11:55 am - 12:20 pm
IL-23	S. Gourinath , <i>SLS JNU: Structural and functional studies, inhibitor development against cysteine biosynthetic pathway enzymes of E. histolytica</i>	12:20 pm - 12:45 pm
IL-24	Agam P. Singh , <i>NII: Vaccines for malaria pre-erythrocytic stage parasites</i>	12:45 pm - 1:10 pm
OP-15	Amresh Prakash , <i>SCIS JNU: Multistage Unfolding Dynamics of TDP-43 Involve in Amyotrophic Lateral Sclerosis</i>	1:10 pm - 1:25 pm
OP-16	Saurabh Agrawal , <i>ACBR DU, Synthesis of Novel and Selective N-(benzo[d]thiazol-2-ylmethyl)-4-substituted-piperazine-1-carbothioamides and evaluate their NOS inhibiting potential in HEK cells transfected with human nNOS and eNOS</i>	1:25 pm - 1:40 pm
OP-17	Rimpy Kaur Chowhan <i>ACBR DU: Peroxiredoxin 6, a cytosolic antioxidant protein has high aggregation propensity at physiological conditions</i>	1:40 pm - 1:55 pm

Lunch: 2:00 P.M. – 3:00 P.M.

Valedictory Function 3:45 P.M. – 4:45 PM

Chair: Dr. S.K Gupta, NII New Delhi

Valedictory lecture: Prof. Thomas Rudel

New approaches to target obligate intracellular pathogenic bacteria

Prize Distribution