

## 12. NEW BIOLOGY

**4<sup>th</sup> January 2020**

SECTION	NEW BIOLOGY (INCLUDING BIOCHEMISTRY, BIOPHYSICS, MOLECULAR BIOLOGY AND BIOTECHNOLOGY)
<b>Sectional President</b>	: <b>Prof. Sudip K. Ghosh,</b> Department of Biotechnology, Indian Institute of Technology Kharagpur Kharagpur-721302
<b>Sectional Secretary</b>	: <b>Prof. R. L. Ravikumar,</b> Professor & Head, Dept. of Biotechnology, College of Agriculture, UAS, GKVK,
<b>Sectional Recorder</b>	: <b>Dr. Sandipan Chatterjee</b> Scientist, Regional Centre for Extension and development-Kolkata, CSIR-Central Leather Research Institute, Kolkata
<b>02:00 – 06:00 PM</b>	
<b>SECTIONAL COMMITTEE MEETING</b>	
<b>Venue</b>	: <b>Cluster II – College of Agriculture, South Block : Hall 12</b>
<b>Presidential Address</b>	: <b>Sudip K. Ghosh,</b> IIT Kharagpur, Kharagpur <i>New insight into Entamoeba encystation</i>
<b>Platinum Jubilee Lecture</b>	: <b>Suman K. Dhar,</b> Professor, JNU, New Delhi <i>Human malaria parasite plasmodium falciparum: unique biology and possible interventions</i>
<b>Keynote Address</b>	: <b>Asim K. Duttaroy</b> Institute of Basic Medical Sciences, University of Oslo, Oslo, Norway <i>Maternal dietary fatty acids and placental roles in human fetal growth and development</i>
<b>Invited Lecture</b>	: <b>Yasuhiro Ozeki,</b> Yokohama City University, Japan <i>The Possibility of Marine Lectins as Post-Antibody Drug</i>
<b>Award Lectures:</b>	: <b>Alok Dhawan</b> CSIR-Indian Institute of Toxicology Research, Lucknow - 226001, U.P <i>Supporting risk in science: emergence of nanotoxicology in India</i>
<b>Prof S S Katiyar Endowment Lecture</b>	
<b>Prof Uma Kant Sinha Memorial Award Lecture</b>	: <b>Mohan C D</b> Department of Studies in Molecular Biology, University of Mysore, Manasagangotri, Mysore, India

		<i>New azaspirane suppresses the growth of hepatocellular carcinoma by targeting the jak-stat3 signaling pathway</i>
<b>Invited Lectures</b>		<b>Sudip Chattyopadhyay,</b> NIT Durgapur, Durgapur <i>The inter-regulation of myc2 with other transcription factors to control plant growth and development</i>
		<b>Chinmoy Panda,</b> CNCI, Kolkata <i>Molecular profiles of chemo-tolerant triple negative breast carcinoma: future therapeutics</i>
<b>SECTIONAL COMMITTEE ELECTION</b>		

**5<sup>th</sup> January 2020**

<b>NEW BIOLOGY -1</b>		
<b>Venue</b>	:	<b>Cluster II-College of Agriculture, South Block : Hall 12</b>
<b>02:00-06:00 PM</b>		
<b>Symposium-I: Health care Technology: Bench to bedside and beyond.</b>		
<b>Invited Lectures/Oral presentation</b>		
<b>Venue</b>	:	<b>Cluster I-Main Program Area: Hall 3</b>
	:	<b>Debasish Mitra, CDFD, Hyderabad</b> <i>Cellular stress proteins as potential targets and repurposing of drugs in the fight against hiv/aids</i>
		<b>C. Durga Rao, SRM University, Amaravati, India</b> <i>Enteroviruses and their association with acute and persistent gastrointestinal infections and diseases</i>
		<b>Saumitra Das, NIBMG Kalyani, Nadia</b> <i>A, B, Cs, of hepatitis: life in liver</i>
		<b>Sujoy DasGupta, Bose Institute, Kolkata</b> <i>Phage inspired antibiotics for mycobacteria</i>
		<b>Kaustuv Sanyal, JNCASR, Bangalore</b> <i>Determinants of a rapidly evolving chromosomal locus - the centromere</i>
		<b>Estari Mamidala Kakatiya University, Warangal-506009 Telangana State</b> <i>Potent hiv-1 reverse transcriptase activity punicalagin, a novel tannin component isolated from terminalia chebula ritz</i>
		<b>Vellingiri Manon Mani Rathnavel Subramaniam College of Arts and Science, Coimbatore- 641402, Tamil Nadu, India</b>

		<i>Anti-angiogenic potential of silver nanoparticles synthesized from an endophytic fungus aspergillus nomius fc11ay1 and its bioactivities</i>
		<b>C. Durga Rao</b> , SRM University, Amaravati, India <i>Enteroviruses and their association with acute and persistent gastrointestinal infections and diseases</i>
		<b>Arunava Das</b> , Bannari Amman Institute Technology, Sathyamangalam-638401, Erode District, Tamil Nadu, India <i>Molecular characterization of drug resistant clostridium perfringens type a from necrotic enteritis</i>
		<b>Ramalingam Saravana</b> , Annamalai University, Annamalai nagar, Government Arts College, Kumbakonam <i>Effect of bergenin on endocrine signal molecules and adipocyte differentiation transcription factors in high fat diet -induced diabetic c57bl/6 mice</i>
		<b>Vani Mishra</b> University of Allahabad, Prayagraj, UP-211002 <i>Stat3 modulates scavenger receptor-a expression during silicosis via IL-10</i>
		<b>Akhileshwar Kumar Srivastava</b> , CSIR-CFTRI, Mysore, India <i>Insight from structural interactions of curcumin biotransformed compounds with caga oncoprotein of helicobacter pylori</i>
		<b>Prateek Sharma</b> , University of Birmingham, Birmingham, B15 2TT, West Midlands, UK <i>The multiple antibiotic resistance (MAR) operon of enteric bacteria controls dna repair and outer membrane integrity</i>
		<b>Ravi Kumar H</b> , JB Camus, Bangalore University, Bangalore-560056 <i>Phytochemicals from ruta graveolens leaf retard cancer cells growth through proliferation inhibition in vitro.</i>
<b>Concurrent Poster Session –I</b> <b>(P-I.1 to P-I.52 and P-II-1 to P-II.21)</b>		
<b>NEWBIOLOGY -2</b>		
<b>Symposium-II: Agricultural Biotechnology: Science for Lab to land.</b>		
<b>02.00-06.00 PM</b>		<b>Invited Lectures/ Oral Presentations</b>
<b>Venue</b>	<b>:</b>	<b>Cluster II-College of Agriculture, South Block : Hall 13</b>
		<b>Subhra Chakroborty</b> , NIPGR, New Delhi <i>Molecular insights into organeller control of chitosan triggered immunity: turning knowledge into innovation</i>
		<b>Utpal Nath</b> , IISC, Bengaluru <i>Integration of developmental and environmental signals in plant growth plasticity</i>

	<p><b>Somnath Bhattacharya</b>, Bidhan Chandra Krishi Vidyalaya, Kalyani, Nadia</p> <p><i>Identification and utilization of elite alleles of abcc1 and pap10a gene in development of low arsenic accumulating p-deficiency tolerant rice</i></p>
	<p><b>Sesha Shreeman</b>, UAS, GKVK, Bengaluru</p> <p>Improving crop productivity with less water: how a combination of high throughput phenotyping with multi-omics approach help develop suitable cultivars of rice</p>
	<p><b>R.L.Ravi Kumar</b>, UAS GKVK, Bengaluru</p> <p><i>Effect of high temperature and drought stress during early reproductive stage on pollen development and its application in crop improvement</i></p>
	<p><b>Sandipan Chatterjee</b>, RCED-Kolkata, CSIR- Central Leather Research Institute</p> <p><i>Metabolic fingerprinting of withania somnifera leaf and root using gc-ms, hplc and nmr spectroscopy</i></p>
	<p><b>Divya Singh</b>, Department of Mulberry physiology, CSRTI-Mysore, India</p> <p><i>Effect of malathion on cytophysiological activity, DNA damage and antioxidant enzymes in root of Allium cepa</i></p>
	<p><b>Khushbu Verma</b>, Jayoti Vidyapeeth Women's University, Jaipur, Rajasthan.</p> <p><i>Cross talk between heme oxygenase1 (HO1) and auxin response factor (ARF) genes for salt tolerance and lateral root development in Cicer arietinum l</i></p>
	<p><b>B. Nagarathnam</b>, National Center for Biological Sciences (TIFR), Bangalore, India</p> <p>In silico screening of certain bioactive compounds from Ceasalpania bonduc (fever nut) for select class i and ii type human olfactory receptors (ors) against asthma and COPD</p>
	<p><b>Preethi Rajesh</b> Garden City University, Bangalore-49</p> <p><i>Isolation, characterization and application of fungal laccases in the degradation of pesticides</i></p>
	<p><b>Sudeshna Shyam Choudhury</b>, St. Xavier's College, Kolkata</p> <p><i>Identification and characterization of the antimicrobial and active components of tea (Camellia sinensis)</i></p>
<p><b>Concurrent Poster Session –I</b>  <b>(P-I.1 to P-I.52 and P-II-1 to P-II.21)</b></p>	

**6<sup>th</sup> January 2020**

NEWBIOLOGY -1	
Venue	: Cluster II- College of Agriculture, South Block : Hall 12
<b>02:00-06:00 PM</b>	
<b>Symposium-I: Health care Technology: Bench to bedside and beyond.</b>	
Keynote Address	<b>KV R Chary</b> , IISER, Berhampore
Invited Lectures	<b>Sib Sankar Roy</b> , CSIR-IICB, Kolkata <i>Metabolic switching in tumour cells promotes adaptation, survivability and oncogeneis</i>
	<b>Bishnu Pada Chatterjee</b> , CNCI, Kolkata <i>Omic research: a path to identify disease biomaker</i>
	<b>Sharmistha Dey</b> , AIIMS, New Delhi <i>Blood based protein marker of head &amp; neck squamous cell carcinoma and their therapeutic intervention</i>
	<b>Gopala Krishna</b> , Parexel International, Bethesda, MD, USA <i>Global regulatory pathways to discover, develop and bring medicine to man and achieve cost-effective healthcare</i>
	<b>Amit Agarwal</b> PGIMER, Chandigarh <i>Association of cd14 c-159t promoter polymorphism with regulatory cytokine response in indian children including birth cohort of babies with atopic asthma</i>
	<b>A. Roja Rani</b> , Osmania University, Hyderabad, Telangana <i>Determination of cytotoxic activity of embelia robusta against human cervical (HeLa) cells line using MTT assay</i>
	<b>Senjam Sunil Singh</b> , Manipur University, Manipur <i>Banana lectins as tools for cancer diagnosis</i>
	<b>Anwasha Bandyopadhyay</b> , Indian Institute of Technology Kharagpur, Kharagpur 721302, India <i>Apoptosis inducing factor (AIF) can play an important role in cell death of Entamoeba histolytica</i>
	<b>Anindita Ghosh</b> , Chittaranjan National Cancer Institute, Kolkata-700026, W. Bengal, India <i>DFT analysis of radical quenching activity of dihydrocanaric acid and its role in the treatment of cancer</i>
	<b>B Andallu</b> , Sri Sathya Sai Institute of Higher Learning, Anantapur, Andhra Pradesh <i>Role of phytochemicals in spices in healthcare</i>

		<p><b>Dhanavathy G</b>, SRM Institute of Science and Technology, Kattankulathur, Kanchepuram, India-603203</p> <p><i>Swertiamarin a potent antidiabetic compound enhances glucose uptake in insulin resistant Hepg2 cell lines</i></p>
<p><b>Concurrent Poster Session –II</b></p> <p><b>(P-I.53 to P-I.103 and P-II-22 to P-II.42)</b></p>		
<p><b>PARALLEL SESSION</b></p>		
<p><b>NEWBIOLOGY -2</b></p>		
<p><b>Symposium-I: Health care Technology: Bench to bedside and beyond.</b></p>		
<p><b>02.00-06.00 PM</b></p>		
<p><b>Invited Lectures/ Oral Presentations</b></p>		
<b>Venue</b>	:	<b>Cluster II- College of Agriculture, South Block- Hall 13</b>
	:	<p><b>Dheer Singh</b>, ICAR-National Dairy Research Institute, Karnal-132001, Haryana</p> <p><i>Milk exosomal mirnas: novel dietary cell regulator in health and diseases</i></p>
	:	<p><b>Sagarika Biswas</b>, IGIB, New Delhi</p> <p><i>Rheumatoid arthritis increases the risk of heart disease: proteomic studies</i></p>
	:	<p><b>Pranab Roy</b>, Institute of Child Health, Kolkata</p> <p><i>Molecular detection of two major mutations causing two genetic diseases, beta thalassemia and cystic fibrosis</i></p>
	:	<p><b>Rajeswari R. Moganty</b>, AIIMS, New Delhi</p> <p><i>Triplex-forming oligonucleotides (tfo) targeted to hmgb1 gene shows antiproliferative effect in human hepatoma cells</i></p>
	:	<p><b>Somdeb Bose Dasgupta</b>, IIT Kharagpur, Kharagpur</p> <p><i>Alternative approaches for diagnostics and therapeutics against tuberculosis</i></p>
	:	<p><b>.Aniruddha Banerji</b>, St. Xavier's College (Autonomous), Kolkata</p> <p><i>Epidermal growth factor receptor (egfr): a potent regulator of matrix metalloproteinases (mmps) and tumour invasion in breast cancer</i></p>
	:	<p><b>Kanagaraj P</b>, SRM Institute of Science and Technology, Kattankulathur, Kanchepuram, India-603203</p> <p><i>DNA aptamer used as a sensor in early breast cancer diagnosis</i></p>
	:	<p><b>Santosh Kumar Tiwari</b>, Maharshi Dayanand University, Rohtak-124001, Haryana, India</p> <p><i>Mode of action of bacteriocin from food-isolate Enterococcus hirae LD3 against target bacteria</i></p>
	:	<p><b>Prakash M Halami</b>, CSIR- Central Food Technological Research Institute, Mysuru 570020 India.</p> <p><i>Anti-inflammatory effect of B. breve NCIM 5671 in adjuvant induced arthritic rats</i></p>

	<p><b>Nannu Shafakatullah</b>, Mangalore University, Mangalagangothri-574199, Karnataka</p> <p><i>Potential role of probiotic bacteria Lactobacillus fermentum strain CM3 on prevention and treatment of colorectal cancer</i></p>
	<p><b>D.K. Chauhan</b>, Department of Zoology, Chaudhary Charan Singh University, Meerut, Uttar Pradesh</p> <p><i>Toxicity of green synthesized copper oxide nanop articles (cuonps) from momordica charantia in albino rats</i></p>
	<p><b>Gupta R</b>, Department of Pharmaceutical Research Division, ASBASJSM College of Pharmacy, Bela (Ropar)</p> <p><i>Cordia obliqua willd. Leaf antioxidant activity study and determination of total phenol &amp; flavonoid content</i></p>
<p><b>Concurrent Poster Session –II</b> (P-I.53 to P-I.103 and P-II-22 to P-II.42)</p>	

**7<sup>th</sup> January 2020**

<b>02:00 – 03:00 PM</b>		<b>NEWBIOLOGY</b>	
<b>Venue</b>	<b>:</b>	<b>Cluster II – College of Agriculture, South Block : Hall 12</b>	
<b>Symposium</b>		<b>Role of behavioral science in (sustainable) rural development</b> <b>Role of behavioral science in rural development in future</b>	
<b>Invited Lectures</b>		<p><b>Mahitosh Mandal</b>, IIT Kharagpur Kharagpur</p> <p><i>Diacerein-mediated inhibition of il-6/il-6r signaling induces apoptotic effects on breast cancer</i></p>	
		<p><b>Agneyo Ganguly</b>, IIT Kharagpur, Kharagpur</p> <p><i>An insight into the mechanism of DNA strand annealing by human recq1 helicase</i></p>	
		<p><b>Bhakti Laha</b> T D B College, Raniganj–713347</p> <p><i>Detection of apical membrane antigen – like protein in Leishmania donovani, a facilitator in successful parasitism</i></p>	
		<p><b>Pavan R.</b>, Central Research Laboratory, Sapthagiri Institute of Medical Sciences and Research Center, Bangalore – 560 090</p> <p><i>Airborne fungal spores in industrial area, Bangalore</i></p>	
<b>General Discussion and Recommendations</b>			