



Rajshahi University



6th National Workshop on “Bioinformatics for Sustainable Development in Agriculture, Health and Environment”

Dates: 13-14, December, 2017

Venue: Bangladesh Rice Research Institute (BRRI), Gazipur-1701

Organized By:

Bangladesh Bioinformatics and Computational Biology Association (BBCBA)
in collaboration with
Bioinformatics Research Group of Rajshahi University (BioRGRU),
Bangladesh Agriculture Research Institute (BARI) & Bangladesh Rice Research
Institute (BRRI), Gazipur, Dhaka

Supported By:

HEQEP Sub-Project (HEQEP:CP-3603, W2, R3), Dept. of Statistics, Rajshahi
University (RU) & UGC, BARI and BRRI

Program

Day-1. Wednesday (13 December 2017)

09.00-09.30	Registration
09.30-10.45	Session 1: Inaugural session <ul style="list-style-type: none"> Welcome address: Dr. Tamal Lata Aditya, Convener, Workshop Organizing Committee and Director Research, BRRI, Gazipur, Dhaka Address from BBCBA: Dr. AM Zonaed Siddique, General Secretary of BBCBA & Professor, Dept. of Pathology and Parasitology, Chittagong Veterinary and Animal Sciences University (CVASU), Chittagong. Keynote Presentation: Dr. Md. Nurul Haque Mollah, President of BBCBA & Professor, Bioinformatics Lab., Dept. of Statistics, Rajshahi University. Speech of Special Guest: Dr. Abul Kalam Azad, Director General, Bangladesh Agricultural Research Institute (BARI), Gazipur Speech of Chief Guest: Dr. Bhagya Rani Banik, Exicutive Chairman, Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka Speech of Chairperson: Dr. Md. Shahjahan Kabir, Director General, Bangladesh Rice Research Institute (BRRI), Gazipur-1701

	<ul style="list-style-type: none"> Vote of thanks: Dr. Md. Ansar Ali, Director (Admin), Bangladesh Rice Research Institute (BRRI), Gazipur-1701
10.45-11:00	Tea Break
11:00 - 13:00	Technical Session 1: Chaired by Dr. Munirul Alam , Fellow Am. Acad. Mic., Senior Scientist, ICDDR, Dhaka
11:00-12:00	<u>Topic-1: Introduction to Bioinformatics and Its Role in Biotechnology</u> Resource Person: Dr. Md. Nurul Haque Mollah , Professor, Bioinformatics Lab., Dept. of Statistics, Rajshahi University, Rajshahi
12:00-13:00	<u>Topic-2: Bioinformatics for Understanding Endophytic Microorganisms and their Bioactive Compounds</u> Resource Persons: Dr. Haseena Khan , Professor, Dept. of Biochemistry and Molecular Biology, Dhaka University. Email: haseena@univdhaka.edu
13:00 - 14:00	Lunch Break & Lab Visit
14:00 - 16:00	Technical Session 2: Chaired by Dr. Haseena Khan , Professor, Dept. of Biochemistry and Molecular Biology, Dhaka University
14:00-15:00	<u>Topic-3: Computational Biology for Prediction of Arsenic and Antimony Transporter Aquaporins in the Genomes of Crop Plants.</u> Resource Person: Dr. Md. Abul Kalam Azad , Professor, Dept. of Genetic Engineering and Biotechnology, Shahjalal University of Science and Technology (SUST), Sylhet: Email: dakazad-btc@sust.edu , dakazad@yahoo.com
15:00-16:00	<u>Topic-4: Next Generation Sequencing (NGS) Data Analyses Pipeline: An Introduction</u> Resource Person: Dr. AMAM Zonaed Siddiki , Professor, Dept. of Pathology and Parasitology, CVASU, Chittagong. Email: zsiddiki@gmail.com
16:00-16:15	<u>TEA Break</u>
16:15 - 18:15	Technical Session 3: Dr. S. M. Shahinul Islam , Associate Professor, Institute of Biological Science (IBSc), Rajshahi University.
16:15-17:15	<u>Topic-5: Metagenomics: The Frontier in Agriculture, Environment and Health.</u> Resource Persons: Dr. Munirul Alam , Fellow Am. Acad. Mic., Senior Scientist, ICDDR, Dhaka. Email: munirul@icddr.org
17:15-18:15	<u>Topic-6: Metabolic Pathway Analysis using Bioinformatics to Detect Disease Related Biomarkers.</u> Resource Persons: Prof. Dr. Md. Aminul Hoque , Bioinformatics Lab., Dept. of Statistics, RU., Rajshahi

Day-2. Thursday (14 December 2017)

9:00-11.00	Technical Session 4: Dr. M. Enamul Haque , PSO, Biotechnology division, BRRI, Gazipur
9:00-10:00	Topic-7: <i>Bioinformatics and Sustainable Agriculture</i> Resource Persons: Professor Dr. Md. Shahidul Haque, Department of Biotechnology, Faculty of Agriculture, Bangladesh Agricultural University, Mymensingh-2202. Email: haquems@bau.edu.bd
10:00-11:00	Topic-8: QTL mapping: First step of gene discovery. Resource Persons: Dr. M. Akhlasur Rahman , Principal Scientific Officer, Plant Breeding Division, BRRI. Gazipur <u>TEA Break</u>
11:00-11:15	Technical Session 5: Dr. M. Akhlasur Rahman , PSO, Plant Breeding Division, BRRI. Gazipur
11:15 - 13:15	Topic-9: <i>Bioinformatics in Protein function prediction and analyses in Tick Model.</i> Resource Persons: Dr. Md. Abdul Alim , Professor, Dept. of Parasitology, Faculty of Veterinary Science, Bangladesh Agricultural University (BAU), Mymensingh. alim20471@yahoo.com
11:15 - 12:15	
12:15 - 13.00	Topic-10: Genome wide Association Mapping in Rice Resource Persons: Dr. ESM Harunur Rashid , Senior Scientific Officer, Genetic Resources and Seed division, BRRI, Gazipur.
13.00 - 14.00	Lunch Break and Lab Visit
14:00 - 16:00	Technical Session 6: Chaired by Dr. Md. Abdul Alim , Professor, Dept. of Parasitology, Faculty of Veterinary Science, Bangladesh Agricultural University (BAU), Mymensingh.
14:00 – 15:00	
15:00 – 16:00	Topic-11: <i>Physiological Mechanism and Stress-Tolerance Specific Proteins Jointly Tolerate the stress of Drought and Salinity in Tibetan Wild Barley.</i> Resource Person: Dr. Imrul Mosaddek Ahmed , Senior Scientific Officer, Plant Physiology Division Bangladesh Agricultural Research Institute (BARI), Gazipur Topic-12: <i>Ambiguous role of 5-Aminolevulinic acid (ALA) in mitigating oxidative stress in maize under salinity and drought stress</i> Resource Person: Dr. Md. Motiar Rohman (Plant Breeding Division, BARI)and Md. Robyul Islam (Dept. of Biotechnology, BSMRAU, Gazipur
16:00-17:00	Technical Session 7: Chaired by Dr. Imrul Mosaddek Ahmed , SSO,, Plant Physiology Division Bangladesh Agricultural Research Institute (BARI), Gazipur Topic-13: <i>Advanced Phenotyping Technology for plant Growth and Development Research</i> Resource Persons: Dr. Md. Matiur Rahaman , Bioinformatics Lab., Dept. of Statistics, Rajshahi University, Rajshahi Topic-14: Molecular Phylogeny of the Kingdom Fungi.

	Resource Persons: Md Abdullahil Baki Bhuiyan , Assistant Professor, Department of Plant Pathology, BSMRAU, Gazipur.
16.15- 17.00	Session-7 (Closing Session): Chaired by Dr. AMAM Zonaed Siddique , General Secretary of BBCBA & Professor, Dept. of Pathology and Parasitology, Chittagong Veterinary and Animal Sciences University (CVASU), Chittagong. *Feedback, *BBCBA Membership drive *Certificate awarding ceremony