







5th National Workshop on "Bioinformatics for Sustainable Development in Agriculture, Health and Environment"

Dates: 18-19 October 2017

Venue: National Institute of Biotechnology (NIB), Savar, Dhaka

Organized By:

Bangladesh Bioinformatics and Computational Biology Association (BBCBA) in collaboration with

Bioinformatics Research Group of Rajshahi University (BioRGRU) & National Institute of Biotechnology (NIB), Ganakbari, Ashulia, Savar, Dhaka

Supported By:

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

Program

Day-1. Wednesday (18 October 2017)

09.00-09.30	Registration
09.30-10.45	Session 1: Inaugural session
	 Welcome address: Dr. Md. Jahangir Alam, Convener, Workshop Organizing Committee and Chief Scientific Officer, NIB, Savar, Dhaka
	 Address from BBCBA: Dr. AMAM Zonaed Siddique, General Secretary of BBCBA & Professor, Dept. of Pathology and Parasitology, Chittagong Veterinary and Animal Sciences University (CAVSU), Chittagong.
	• Keynote Presentation: Dr. Md. Nurul Haque Mollah , President of BBCBA & Professor, Bioinformatics Lab., Dept. of Statistics, Rajshahi University.
	• Speech of Special Guest: Dr. Md. Shahjahan Kabir, Director General, Bangladesh Rice Research Institute (BRRI), Gazipur
	• Speech of Special Guest: Dr. Md. Abul Kalam Azad , Director General, Bangladesh Agricultural Research Institute (BARI), Gazipur

 Speech of Special Guest: Dr. Mahmood-uz-jahan Director, Bangladesh Medical Research Council (BMRC), Mohakhali, Dhaka.
 Speech of Chief Guest: Mr. Md. Anwar Hossain, Secretary, Ministry of Science and Technology, Govt. of Bangladesh
• Speech of Chairperson: Dr. Md Salimullah , Director General, National Institute of Biotechnology (NIB), Ganakbari, Ashulia, Savar, Dhaka
• Vote of thanks: Mr. Palash Kumar Sarker , Member Secretary, Workshop Organizing Committee and Senior Scientific Officer, NIB, Savar, Dhaka
Tea Break
Technical Session 1: Chaired by Dr. Munirul Alam, Fellow Am. Acad. Mic., Senior Scientist, ICDDRB, Dhaka
<u>Topic-1:</u> Introduction to Bioinformatics and Its Role in Biotechnology Resource Person: Dr. Md. Nurul Haque Mollah, Professor, Bioinformatics Lab., Dept. of Statistics, Rajshahi University, Rajshahi
<u>Topic-2:</u> Bioinformatics for Understanding Endophytic Microorganisms and their
Resource Persons: Dr. Haseena Khan , Professor, Dept. of Biochemistry and Molecular Biology, Dhaka University
Lunch Break
Technical Session 2: Chaired by Dr. Haseena Khan , Professor, Dept. of Biochemistry and Molecular Biology, Dhaka University
<u>Topic-3:</u> Designing Anti-HIV Drug Lead Molecule Using Bioinformatics. Resource Person: Dr. Abu Reza, Professor, Dept. of Genetic Engineering & Biotechnology, RU., Rajshahi.
<u>Topic-4</u> : Next Generation Sequencing (NGS) Data Analyses Pipeline: An Introduction
Resource Person: Dr. AMAM Zonaed Siddiki, Professor, Dept. of Pathology and Parasitology, CVASU, Chittagong
TEA Break
Technical Session 3: Chaired by Dr. Md. Abul Kalam Azad, Professor, Dept. of Genetic Engineering and Biotechnology, Shahjalal University of Science and Technology (SUST), Sylhet
<u>Topic-5</u> : Metagenomics: The Frontier in Agriculture, Environment and Health. Resource Persons: Dr. Munirul Alam, Fellow Am. Acad. Mic., Senior Scientist, ICDDRB, Dhaka
Topic-6: Bioinformatics for Drug Discovery Resource Person: Mohammad Uzzal Hossain, Scientific Officer, NIB, Savar, Dhaka

Day-2. Thursday (19 Oct0ber 2017)

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9:00-11.0 0	Technical Session 4: Chaired by Dr. Md. Abdul Alim, Professor, Dept. of Parasitology, Faculty of Veterinary Science, Bangladesh Agricultural University
	(BAU), Mymensingh.
9:00-10:00	Topic-7: Cap Analysis Gene Expression(CAGE): A tool for mRNA Analysis in
	Biological Sample Resource Persons: Dr. Md. Salimullah, Director General, NIB, Savar, Dhaka
10.00.11.00	Topic-8: Protein-Protein Interaction: an Outstretched Field of Embedding Strategy
10:00-11:00	for Developing New Drugs
	Resource Persons: Dr. A. H. M. Nurun Nabi, Professor, Dept.of Biochemistry and
	Molecular Biology, DU.
11:00-11:15	TEA Break
11:15 - 13:15	Technical Session 5: Chaired by Dr. Md. Salimullah, Director General, NIB
11:15 - 12:15	<u>Topic-9:</u> Protein function prediction and analyses, where bioinformatics directs.
	Resource Persons: Dr. Md. Abdul Alim, Professor, Dept. of Parasitology, Faculty of
	Veterinary Science, Bangladesh Agricultural University (BAU), Mymensingh.
	Topic-10: Computational Biology for Understanding of Life Process.
12:15 - 13.15	Resource Person: Dr. Md. Abul Kalam Azad , Professor, Dept. of Genetic Engineering and Biotechnology, Shahjalal University of Science and Technology
	(SUST), Sylhet
13.15 - 14.15	Lunch Break
14:15 - 16:15	Technical Session 6: Chaired by Dr. Jahangir Alam, Chief Scientific Officer, NIB
14:15 – 15:15	Topic-11: Plant Phenomics: An Advanced Technology for plant Growth and
	Development Research
	Resource Persons: Dr. Md. Matiur Rahman, Bioinformatics Lab., Dept. of
15.15 16.15	Statistics, Rajshahi University, Rajshahi
15:15 – 16:15	Topic-12: Integration of OMICS approaches for low-phosphorus tolerance in
	maize.
	Resource Person: Dr. M. Shalim Uddin, Senior Scientific Officer, Plant Breeding
	Division Bangladesh Agricultural Research Institute (BARI), 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 (CAVSU), Chittagong.
	*Feedback,
	*BBCBA Membership drive
17:00-18:00	*Certificate awarding ceremony Lab visit for the SPMT members of HEQEP (CP-3603, W2, R3)
17.00-10.00	Lub vibilità inc di ivil incindets di illiqui (CI -5005, W2, R5)