

# Conference of the Bangladesh Society for Biochemistry and Molecular Biology, 2012

25-26 February, 2012

## PROGRAMME

Day 1: February 25, 2012 (Saturday)  
Venue: Senate Bhaban, University of Rajshahi

9.00-9.30 am	Registration
9.30-11.00 am	<b>Inaugural Ceremony</b> <b>Chief guest:</b> Professor M. Abdus Sobhan Vice-chancellor, University of Rajshahi <b>Special Guest:</b> Professor M. Qaisuddin Former Vice-chancellor, Islamic University, Kushtia & Bangladesh Open University. Professor Muhammad Nurullah Pro- Vice-chancellor, University of Rajshahi Professor Dr. Md. Tofazzal Hossain Tarafder Dean, Faculty of Science, University of Rajshahi
11.00-11.30 am	Refreshment
11.30-1.10 pm	<b>Plenary Lecture</b> <b>Chair:</b> Prof. M. Qaisuddin, University of Rajshahi <b>Co-chair:</b> Prof. Mustafizur Rahman, University of Dhaka
11.30-12.20 pm	<b>Plenary lecture-1</b> Role of protein kinase C isoforms in the regulation of hepatocellular transporters (Abstract no. PL-1) Prof. M. Sawkat Anwer, Cummings School of Veterinary Medicine at Tufts University, North Grafton, MA, USA
12.20-1.10 pm	<b>Plenary lecture-2</b> An attempt towards deciphering the puzzles of enteric infections using advanced genomic and proteomic tools: understanding host and pathogens better for optimal design of protective vaccines (Abstract no. PL-2) Dr. Firdausi Qadri, Director, Center for vaccine sciences, ICDDR'B, Dhaka
1.10-1.30 pm	Open discussion on plenary lecture
1.30 -2.00 pm	Lunch

**Day 1: February 25, 2012 (Saturday)**  
**Venue: Senate Bhaban, University of Rajshahi**

<b>2.00-3.30 pm</b>	<b>Scientific Session-1A: Basic &amp; Clinical Biochemistry</b>
	<b>Chair:</b> Prof. M. Anwar Hossain, BMB, University of Dhaka <b>Co-chair:</b> Prof. Tanzima Yeasmin, University of Rajshahi
<b>2.00-2.45 pm</b>	<b>Key note speech</b> From Rags to Riches: Characterization of a putative Vps51/Vps67 family member linked to low temperature tolerance in jute (Abstract no. KN-1) Prof. Haseena Khan, Dept. of Biochemistry and Molecular Biology, University of Dhaka
<b>2.45-2.57 pm</b>	Neurotransmitters-mediating enzyme - dopamine- $\beta$ -hydroxylase and its cofactors in the serum of Bangladeshi patients with parkinson's disease, mental retardation and arsenicosis (Abstract no. O-S1-01) <u>M.K. Rahman</u>
<b>2.57-3.09 pm</b>	B23/nucleophosmin, a multifunctional cellular protein involved in the dynamics regulation of viral chromatin (Abstract no. O-S1-02) <u>Md. Abdus Samad</u> and Nagata Kyosuke
<b>3.09-3.21 pm</b>	Effects of short solubility controlling peptide tags on protein's solubility, thermodynamics, structure and function (Abstract no. O-S1-03) <u>M. Monirul Islam</u> and Yutaka Kuroda
<b>3.21-3.33 pm</b>	Characterization of endo- $\beta$ -1, 4-glucanases present in the gut fluid of a defoliator pest of hogplum, <i>Podontia quatuordecimpunctata</i> (Abstract no. O-S1-04) <u>Mohammad Mosleh Uddin</u> , Md. Mahmudul Hasan Chowdhury, Suman Mojumder and Dwaipayana Sikdar
<b>3.35-3.55 pm</b>	<b>Tea Break</b>
<b>3.55-5.45 pm</b>	<b>Scientific Session, Session-1B: Basic &amp; Clinical Biochemistry</b>
	<b>Chair:</b> Prof. K. B. M. Mamun Rashid Chowdhury, University of Dhaka <b>Co-chair:</b> Prof. Matiar Rahman, University of Rajshahi
<b>3.55-4.07 pm</b>	Phase distribution of chronic myeloid leukemia in Bangladesh (Abstract no. O-S1-05) <u>Md. Abdul Mottalib</u> , Tanvira Afroze Sultana, Md. Ibrahim Khalil, Md. Sirazul Islam, Subhagata Choudhury and M Anwar Hossain
<b>4.07-4.19 pm</b>	Micronucleus frequency as an indicator of Zinc status in Bangladeshi adults (Abstract no. O-S1-06) <u>Sharmin Islam</u> , Md. Nazmul Huda, Md. Monirujjaman, Mohammad Bakhtiar Hossain
<b>4.19-4.31 pm</b>	NAT2 gene polymorphism, DNA damage and lipid peroxidation in bladder cancer patients (Abstract no. O-S1-07) <u>Jahidul Islam</u> , M. Fakhru Islam, Habibur Rahman Dulal, Nasir Uddin, Yearul Kabir
<b>4.31-4.43 pm</b>	DNA damage in blood lymphocytes in hypertensive subjects in a Bangladeshi population (Abstract no. O-S1-08) <u>Muhammad Saiedullah</u> , N.M Abdullah Al Mamun, Mohammad Arif, Zakir Hossain Howlader and Mustafizur Rahman
<b>4.43-4.55 pm</b>	Comparison of insect Gut Cellulase activity among different insect species (Abstract no. O-S1-09) <u>Md. Mahmudul Hasan Chowdhury</u> , Mohammad Mosleh Uddin, Suman Mojumder and Dwaipayana Sikdar
<b>4.55-5.07 pm</b>	Uses and abuses of statistical algorithms for identification of important genes influencing phenotypes (Abstract no. O-S1-10) <u>Md. Nurul Haque Mollah</u>
<b>5.07-5.19 pm</b>	Crystallization of alpha-amylase and beta-galactosidase (Abstract no. O-S1-11) Md. Jahangir Alam, <u>Md. Ruhul Amin</u> and Md. Tofazzal Hossain
<b>5.19-5.31 pm</b>	Crystal structure of the central axis NtpD-G complex of the prokaryotic V-ATPase from <i>Enterococcus hirae</i> (Abstract no. O-S1-12) <u>K. M. Mozaffar Hossain</u>

5.31-5.43 pm	Is this molecule responsible for vitiligo? A molecular study on 3-patients (Abstract no. O-S1-13) <u>Delwar Hossain</u> , Subodh Kumar Sarkar and Nurul Absar
6.30-8.00 pm	<b>Cultural Program (Kazi Nazrul Islam Auditorium, University of Rajshahi)</b>
8.30-10.00 pm	<b>Dinner</b>

**Day 1: February 25, 2012 (Saturday)**  
**Venue: Deans Complex Conference Hall, University of Rajshahi**

2.00-3.30 pm	<b>Scientific Session, Session-2A: Molecular Biology &amp; Biotechnology</b>
	<b>Chair:</b> Prof. Monzur Hossain, University of Rajshahi <b>Co-chair:</b> Prof. Tofazzal Hossain, University of Rajshahi
2.00-2.45 pm	<b>Key note speech</b> Past, present and future of forensic DNA typing (Abstract no. KN-2) Prof. Sharif Akhtaruzzaman, Department of Biochemistry & Molecular Biology, University of Dhaka, & National Technical Advisor, National Forensic DNA Profiling Laboratory, Dhaka Medical College, Dhaka
2.45-2.57 pm	Conservation of (pro) renin receptor gene among different species: an evolutionary perspective (Abstract no. O-S2-14) <u>AHM Nurun Nabi</u> , Md Taibur Rahman, Sajib Chakraborty, AKM Mahbub Hasan, Sonia Tamanna, Rajib Chakravorty, Fumiaki Suzuki
2.57-3.09 pm	Pea DNA helicase 45 (PDH45) gene confers salt tolerance in the genetic background of farmer popular rice varieties (Abstract no. O-S2-15) Mahzabin Amin, <u>Alamgeer Hossain</u> , Tasnim Ahmed, Taslima Haque <sup>1</sup> Sabrina M. Elias, Aliya Ferdousi, Md. Sazzadur Rahman, Narendra Tuteja and Zeba I. Seraj
3.09-3.21 pm	Vacuolar Na <sup>+</sup> /H <sup>+</sup> antiporter overexpression for salt tolerance: A complex regulation in rice (Abstract no. O-S2-16) Richard Malo, <u>Sabrina M. Elias</u> , Farhana Nazneen, Saima Shahid, Touhid Omar, U. S. Mahzabin Amin, Taslima Haque and Zeba I. Seraj
3.21-3.33 pm	Identification of a snf7 super family gene in jute ( <i>Corchorus olitorius</i> var. SDLT-1) and its role under different environmental stress conditions (Abstract no.O-S2-17) <u>Md. Tariqul Islam</u> , Haseena khan
3.35-3.55 pm	<b>Tea Break</b>
3.55-5.45 pm	<b>Scientific Session-2B: Molecular Biology &amp; Biotechnology</b>
	<b>Chair:</b> Prof. Zeba Islam Seraj, University of Dhaka <b>Co-chair:</b> Prof. M. Rezaul Karim-3, University of Rajshahi
3.55-4.07 pm	Engineering of rice overexpression construct for improved drought and salt tolerance using <i>hardy</i> , an ap2/erf gene (Abstract no. O-S2-18) Kashfia Faruque, Shabnam Zaman, <u>Saeyma Afrin</u> and Zeba I. Seraj
4.07-4.19 pm	Promoter characterization of three salt stress related genes in <i>Oryza sativa</i> L. cv Pokkali by agro-infiltration method (Abstract no. O-S2-19) S.M. Ashiqul Islam, Sudip Biswas, Nabila Farah Rahman, Sharmin Jahan, U. S. Mahzabin Amin, Taslima Haque Zeba Islam Seraj
4.19-4.31 pm	Functional properties and evolutionary splicing constraints on a composite exonic regulatory element of splicing in CFTR exon 12 (Abstract no. O-S2-20) <u>Ariful Haque</u>

<b>4.31-4.43 pm</b>	Attenuation of 12- <i>O</i> -tetradecanoylphorbol-13-acetate (TPA)-induced gap junctional intercellular communication (GJIC) inhibition in MCF-10A cells by c9,t11-conjugated linoleic acid (Abstract no. O-S2-21) <u>Md. Abdur Rakib</u> , Young S. Kim, Wook J. Jang, Byeong D. Choi, Jeong O. Kim, li K. Kong, and Yeong L. Ha
<b>4.43-4.55 pm</b>	Molecular cloning of the Na <sup>+</sup> /H <sup>+</sup> exchanger gene from <i>Arabidopsis thaliana</i> and <i>Oryza sativa</i> for tomato ( <i>Lycopersicon esculentum</i> Miller) transformation and conferring salt tolerance (Abstract no. O-S2-22) <u>Debashis Chakraborty</u> , Samsad Razzaque, Mohsina Ferdous, Shabnam Zaman, Aparna Islam, Zeba Islam Seraj
<b>4.55-5.07 pm</b>	Association of angiotensin converting enzyme and renin gene polymorphisms with hypertension in Bangladeshi population (Abstract no. O-S2-23) <u>Rownock Afruza</u> , Laila N Islam, Sajal Banerjee, Md. Mahub Hassan, Fumiaki Suzuki, AHM Nurun Nabi
<b>5.07-5.19 pm</b>	CRISPR may give important information which can be beneficial in molecular biology and biotechnology study (Abstract no. O-S2-24) <u>Rafiad Islam</u>
<b>5.19-5.31 pm</b>	Computational prediction of plant promoters (Abstract no. O-S2-25) Saima Shahid, <u>Taslima Haque</u> , Saddam Raj, Zohirul A. Tiemoon, Shabnam Zaman, Farjana Khatun, Fokhruz Zaman, Zeba I. Seraj
<b>5.31-5.43</b>	Expression of miRNA-146a and miRNA-155 in the duodenal epithelium of <i>Vibrio cholerae</i> O1 and enterotoxigenic <i>Escherichia coli</i> infected patients (Abstract no. O-S2-26) T Shirin, A Rahman, Aziz Bitar, A Israelsson, SS Qadri, F Qadri, M-L Hammarström
<b>6.30-8.00 pm</b>	<b>Cultural program (Kazi Nazrul Islam Auditorium, University of Rajshahi)</b>
<b>8.30-10.00 pm</b>	<b>Dinner</b>

**Day 2: February 26, 2012 (Sunday)**  
**Venue: Senate Bhaban, University of Rajshahi**

<b>9.00-11.00 am</b>	<b>Scientific Session -3A: Microbiology &amp; Immunology</b>
	<b>Chair:</b> Prof. Ishtiaq Mahmud, University of Dhaka <b>Co-chair:</b> Prof. Kamal Uddin Ahmed, Sher-E-Bangla Agricultural University
<b>9.00-9.45 am</b>	<b>Key note speech</b> Scope, Production and Application of Industrial Enzymes in Bangladesh (Abstract no. KN-3) Prof. Md. Mozammel Hoq, Dept. of Microbiology, University of Dhaka
<b>9.45-9.57 am</b>	Regulation of TLRs for sensing pathogens (Abstract no. O-S3-27) <u>Abu Shadat Mohammad Noman</u> , Takahashi Yokochi, Zihai Li, Michael Brodsky, and Sean Li
<b>9.57-10.09 am</b>	Th1 and Th17 responses to <i>Helicobacter pylori</i> in Bangladeshi children and adults (Abstract no. O-S3-28) Taufiqur Rahman Bhuiyan, Taher Uddin., <u>MM Towhidul Islam</u> , Anders Janzon, Samuel B Lundin, Firdausi Qadri, Anna Lundgren
<b>10.09-10.21 am</b>	Vaccine specific immune response in children in an arsenic contaminated area of Bangladesh (Abstract no. O-S3-29) <u>Mohammad Nazim</u> , Alaullah Sheikh, Mohiul I. Chowdhury, Amit Saha, Gazi Nurun Nahar Sultana, Mustafizur Rahman, Syed Saleheen Qadri, Firdausi Qadri

<b>10.21-10.33 am</b>	Identification of the positively selected genes governing host-pathogen arm race in <i>Vibrio</i> sp. through comparative genomics approach (Abstract no. O-S3-30) <u>Atai Rabby</u> , Shahjalal Soad, Shamma Shakila Rahman, Kaniz Fatima Chanda, Rajib Chakravorty, Sajib Chakravorty
<b>10.33-10.45 am</b>	Informatics-aided prediction of immunogenic epitope cluster in Ag85B for developing novel epitope based TB vaccine (Abstract no. O-S3-31) <u>K. Khan</u> , S. Chakrabarty, R. Chakravorty S. Zaman, F. Qadri, C. Fernandez, M. J. Rahman and Z. I. Seraj
<b>10.45-10.57 am</b>	Isolation and biochemical characterization of dehairing bacteria and its extracellular protease enzyme (Abstract no. O-S3-32) <u>Md. Habibur Rahman</u> , Rezaul Islam Khan, Hafizur Rahman, Firoj Mortaza, A. K. M. Mahbub Hasan, Mustafizur Rahman
<b>11.00-11.20 am</b>	<b>Tea</b>
<b>11.20-1.00 pm</b>	<b>Scientific Session -3B: Microbiology &amp; Immunology</b>
	<b>Chair:</b> Prof. Jahan Ara Khanam, University of Rajshahi <b>Co-chair:</b> Dr. Monirul Islam, Chittagong University
<b>11.20-11.31am</b>	Studies on drug resistance mechanisms involved in the emergence of multidrug-resistant (MDR) <i>Shigella flexneri 2a</i> (Abstract no. O-S3-33) <u>Fatema Akter</u> , Ishrat J. Azmi, Afroza Parvin, M. Badrul Amin, Mustafizur Rahman and Kaiser Ali Talukder
<b>11.31-11.43 am</b>	Evaluation of the safety and immunogenicity of cholera vaccine candidates in rabbit and mice model (Abstract no. O-S3-34) <u>Md. Ismail Hosen</u> , Mohammad Nazim, Tahmina Hossain Ahmed, Taufiqur Rahman Bhuiyan, Alaulah Sheikh, Md. Saruar Bhuiyan, Mohammad Murshid Alam, Firdausi Qadri
<b>11.43-11.55 am</b>	Comparison of the human immune response to O-specific polysaccharide and lipopolysaccharide in Bangladeshi patients infected with <i>Vibrio cholera</i> (Abstract no. O-S3-35) Russell Andrew Johnson, <u>Taher Uddin</u> , Mohammad Murshid Alam, Fahima Chowdhury, Md. Mohasin, Amena Aktar, Jason B. Harris, Stephen B. Calderwood, Firdausi Qadri, Edward T. Ryan
<b>11.55-12.07 pm</b>	Shift in phenotypic characteristics of enterotoxigenic <i>Escherichia coli</i> (ETEC) isolated from diarrheal patients over the last 15 years in Bangladesh (Abstract no. O-S3-36) <u>Yasmin Ara Begum</u> , Nabilah Ibnat Baby, Nusrat Jahan, Ann-Mari Svennerholm, Alejandro Cravioto <sup>1</sup> , Firdausi Qadri
<b>12.07-12.19 pm</b>	Effect of 5-fluorouracil in aquatic microorganisms and its biogenetic transfer into ciliate protozoan (Abstract no. O-S3-37) <u>Asad Ud-Daula</u> , Gerd Pfister and Karl-Wrner Schramm
<b>12.19-12.31 pm</b>	Supplementation of acetone extract of <i>Nigella sativa</i> L. seeds in diet decreases serum cholesterol and harmful intestinal bacteria in broiler (Abstract no. O-S3-38) <u>Md. Nurealam Siddiqui</u> , M. Tofazzal Islam, M. Abu Sayed and M. Afzal Hossain
<b>12.50-1.00 pm</b>	<b>Best Poster Award</b>
<b>1.00-2.00 pm</b>	<b>Lunch</b>
<b>2.30 pm</b>	<b>Annual General Meeting</b>

**Day 2: February 26, 2012 (Sunday)**  
**Venue: Deans Complex Conference Hall, University of Rajshahi**

<b>9.00-11.00 am</b>	<b>Scientific Session -4A: Food Science and Natural Products</b>
	<b>Chair:</b> Prof. Ekramul Hoque, University of Rajshahi <b>Co-chair:</b> Prof. Narayan Roy, University of Rajshahi
<b>9.00-9.45 am</b>	<b>Key note speech</b> Lectins as cell recognition molecules— An informative report on the toxicity of Puffer (Potca) fish protein and Tetrodotoxin: a marine neurotoxin present in that fish. (Abstract no. KN-4) Prof. Nurul Absar, Dept. of Biochemistry and Molecular Biology, University of Rajshahi
<b>9.45-9.57 am</b>	Enhancement of tomato fruit shelf life by expression control of glyco-genes (Abstract no. O-S4-39) <u>Md. Anowar Hossain</u> and Yoshinobu Kimura
<b>9.57-10.09 am</b>	Antidiabetic effect of different extracts of <i>Clerodindrum infortunatum</i> and <i>Tinospora cordifolia</i> on STZ induced type 2 diabetic Long- Evans rats with chemical studies (Abstract no. O-S4-40) <u>Pankaj Kumar Sarkar</u> , B. Roy, Begum Rokeya, and Ken Ishigami
<b>10.09-10.21 am</b>	Bioassay of Eucalyptus extracts for anticancer activity against Ehrlich ascites carcinoma (EAC) cells in Swiss albino mice (Abstract no. O-S4-41) <u>Farhadul Islam</u> , Hasina Khatun, Soby Ghosh, M.M. Ali and J. A. Khanam
<b>10.21-10.33 am</b>	Nutritional, chemical and biological investigations of a hybrid variety of <i>Momordica charantia</i> (Bitter gourd) in Bangladesh (Abstract no. O-S4-42) <u>Md. Golam Kabir</u> , Rashu Barua, Samsad Sultana and Subodh Kumar Sarkar
<b>10.33-10.45 am</b>	Weaning food from cereal: It's preparation and safety aspect (Abstract no. O-S4-43) Mohammed A. Satter, <u>Taslima Arzu</u> , Syeda Absha Jabin and Dipak Kumar Paul
<b>10.45-10.57 am</b>	Comparative analysis on the major nutrient composition of locally available four different varieties of rice ( <i>Oryza sativa</i> ) in Bangladesh (Abstract no. O-S4-44) <u>Srikanta Chowdhury</u> , Md. T. A. Chowdhury, Md. Golam Kabir, Dwaipayan Sikdar
<b>11.01.11.20 am</b>	<b>Tea Break</b>
<b>11.20-1.00 pm</b>	<b>Scientific Session -3C: Environmental Biochemistry</b>
	<b>Chair:</b> Prof. M Shahidul Haque, University of Rajshahi <b>Co-chair:</b> Prof. Anwarul Azim Akhand, University of Dhaka.
<b>11.20-11.39 pm</b>	<b>Invited Lecture</b> Role of docosahexaenoic (C22:6, n-3) acid in the constitution and maintenance of the learning-related memory function of Alzheimer's disease model rats (Abstract no. IL-01) Prof. Shahdat Hossain, Dept. of Biochemistry & Molecular Biology, Jahangir Nagar University.
<b>11.39-11.51 am</b>	Association between chronic arsenic exposure and plasma lactate dehydrogenase activity: a cross sectional study in Bangladesh (Abstract no. O-S3-45) <u>Rezaul Karim</u> , Kazi Abdus Salam, Ekhtear Hossain, Khairul Islam, Zahangir Alam Saud, Tanzima Yeasmin, Seiichiro Himeno, Khaled Hossain
<b>11.51-12.03 am</b>	Effects of prenatal and current exposure to arsenic on markers of bone metabolism and growth in children (Abstract no. O-S3-46) <u>Tajnin Sultana</u> , Sultan Ahmed, Marie Vahter, Yukiko Wagatsuma, Rubhana Raqib

<b>12.03-12.15 am</b>	Association between serum thrombomodulin and chronic arsenic exposure: A cross sectional study in Bangladesh (Abstract no. O-S3-47) <u>Shakhawoat Hossain</u> , Md. Rezaul Karim, Khairul Islam, Mashiur Rahman, Ekhtear Hossain, Fouzia Yeasmin, Smita Agarwal, Abdul Aziz, Abdullah Al Mamun, Seiichiro Himeno and Khaled Hossain
<b>12.15-12.27 pm</b>	Effect of arsenic exposure on plasma Matrix metalloproteinase-2 and -9: A cross sectional study in Bangladesh (Abstract no. O-S3-48) <u>Abdul Aziz</u> , Rezaul Karim, Shakhawoat Hossain, Khairul Islam, Mashiur Rahman, Fouzia Yeasmin, Abdullah Al Mamun, Farjana Nikkon, Seiichiro Himeno and Khaled Hossain
<b>12.27-12.39 pm</b>	Effect of arsenic amended irrigation water on BR-11 Rice ( <i>Oryza sativa L.</i> ) in open field gangetic soil condition in Bangladesh (Abstract no. O-S3-49) <u>A.H.M. Firoz Kabir Mondal</u> and Md. Abul Kalam Azad
<b>1.00-2.00 pm</b>	<b>Lunch</b>
<b>2.30 pm</b>	<b>Annual General Meeting (Senate Bhaban)</b>

## Poster Presentation

**Day 1: February 25, 2012 (Saturday)**  
**Venue: Senate Bhaban, University of Rajshahi**

<b>2.00-5.00 PM</b>	<b>Poster Presentation</b>
<b>P-S1-01</b>	Management of 2 <sup>o</sup> superficial burn: A report on 95 patients <u>Delwar Hossain</u> , Nurul Absar and Subodh Kumar Sarkar.
<b>P-S1-02</b>	Reduction of allergenicity of <i>Litchi chinensis</i> flowers pollen by the attachment of polysaccharide <u>Nitai Chandra Roy</u> , Gourango Talukdar, Ismail Hossain, Niranjan Kumar Sana, Syad Rashel Kabir, Kamal Kumar Biswas, Narayan Roy and Ranajit Kumar Shaha
<b>P-S1-03</b>	From marker(s) to gene: Identification of a novel low temperature responsive miRNA gene and an intronic promoter like sequence in jute ( <i>Corchorus spp.</i> ) which works in a day-night oscillatory rhythm <u>Nurun Nahar Fancy</u> , Haseena Khan
<b>P-S1-04</b>	Evaluation of antitumor activity of <i>Manilkara zapota</i> (L.) leaves against Ehrlich Ascites Carcinoma in swiss albino mice <u>M. Mamunur Rashid</u> , M. Abu Osman, M. Abdul Aziz, M. Rowshahul Habib and M. Rezaul Karim
<b>P-S1-05</b>	Arsenic impairs the effect of low temperature on the regulation of Na <sup>+</sup> -K <sup>+</sup> ATPase activity in skeletal muscle of fish ( <i>Channa punctata</i> ) <u>Md. Shahidul Haque</u> and Swapan Kumar Roy
<b>P-S1-06</b>	Role of serum high-sensitivity C-reactive protein level in the prediction of coronary artery disease in hyperglycemic subjects <u>Md. Saiful Islam</u> , Md. Rezaul Karim, Tanzima Yeasmin
<b>P-S1-07</b>	A computational approach towards understanding the role of LIF in human ES cells Nazlee Sharmeen, Sanuwarul Kabir, <u>Abdullah-Al-Emran</u> , Farzana Ahmed
<b>P-S1-08</b>	MYCN mediated ALK expression promotes cell growth, migration and invasion in neuroblastoma. <u>Md. Kamrul Hasan</u> , Atsushi Takatori, Satoshi Kishida, Miki Ohira, Md. Shamim Hossain, Jesmin Akter, Atsushi Ogura, Yohko Nakamura, Kenji Kadomatsu and Akira Nakagawara
<b>P-S1-09</b>	Overexpression and purification of the soluble N-Terminal GTPase domain of yeast Dnm1p for crystallization <u>Bytul Rahman</u> , Shin Kawano, Takahiro Anzai, Sinqinbala, and Toshiya Endo

<b>P-S1-10</b>	Single-step purification of urease from sword bean seeds for clinical diagnostic kit <u>A. S. M. Saem</u> and M. Taufiq Alam
<b>P-S1-11</b>	Effect of vitamin D and phenylbutyrate on pulmonary tuberculosis patients for improved clinical outcome and endogenous expression of antimicrobial peptide <u>Mahina Tabassum Mitul</u> , Akhirunnesa Mily, S.M Arifuzzaman, Mostofa Kamal, Birgitta Agerberth, Rubhana Raqib, Laila N. Islam
<b>P-S1-12</b>	PKA modulates the effect of calmodulin on the L-type Ca <sup>2+</sup> channels activity of guinea-pig cardiac myocytes <u>Zahangir A Saud</u> , Jian-Jun Xu, Etsuko Minobe, Kazuto Yazawa, Masaki Kameyama
<b>P-S1-13</b>	Preparation of inexpensive affinity chromatographic matrix for selective purification of peroxidase from daikon. <u>Siddhartha Sarder</u> and M. Taufiq Alam
<b>P-S1-14</b>	A cell-permeable Hsp90 $\alpha/\beta$ peptide inhibitor (HSP90P) possesses a tumor-specific cytotoxic effect <u>Abu Shadat Mohammad Noman</u> , Zihai Li, Michael Brodsky, and Sean Li.
<b>P-S1-15</b>	Simplification of the antibodies in lymphocyte supernatant (ALS) assay for rapid diagnosis of tuberculosis at peripheral settings <u>Mohammad Ashek Elahi</u> , Gul Ara, Rubhana Raqib, Laila N. Islam
<b>P-S1-16</b>	Characterization and antimicrobial study of <i>Nymphaea nouchali</i> tuber proteins. <u>Md. Abu Zubair</u> , Md. Belal Uddin, Nurul Absar and Syed Rashed Kabir
<b>P-S1-17</b>	Study of antibacterial activities of lectins from the seeds of <i>Moringa oleifera</i> cultivated in Bangladesh <u>Imtiaz Hasan</u> and Syed Rashed Kabir
<b>P-S1-18</b>	Biological and physico-chemical properties of <i>Trapa bispinosa</i> lectins <u>Syed Rashed Kabir</u> , Md. Azizul Haque, Md. Nurujjaman, Mohammad Taufiq Alam and Nurul Absar
<b>P-S1-19</b>	N-Acetyl transferase2 (NAT2) genetic polymorphism in different ethnic population of Bangladesh <u>Farzana T</u> , Khan I, Akhter A, Faruque MO, Hassan Z, Kabir Y, Ali L
<b>P-S1-20</b>	Isolation purification and characterization of an alkaline protease from <i>bacillus amyloliquefaciens</i> <u>Farhana Zamal</u> , M Mozammel Haque and Mustafizur Rahman
<b>P-S2-21</b>	Annexin – A potent gene contributing to both biotic and abiotic stress tolerance in jute ( <i>Corchorus olitorius</i> var. <i>SDLT-1</i> ) <u>Rifat Ara Begum</u> , Haseena Khan
<b>P-S2-22</b>	Genetic transformation of potato ( <i>Solanum tuberosum</i> L.) with ferritin gene <u>Umme Qulsum</u> , Hafizur Rahman, M Rezaul Karim, M Aminul Hoque, M Monzur Hossain and AKM Rafiul Islam
<b>P-S2-23</b>	Characterization of <i>Eimeria tenella</i> in commercial broilers by PCR based on ITS1 regions of rDNA <u>AMAM Zonaed Siddiki</u> , D. Blake, M A Alim, S. Das, M Masduzzaman and M A Hossain
<b>P-S2-24</b>	PCR-based molecular diagnosis of subclinical mastitis in dairy cattle caused by <i>Staphylococcus sp.</i> Zinat Farzana, Nazneen N. Islam, K M Kamaruddin, M. Inkeyas Uddin, D. Biswas and <u>AMAM Zonaed Siddiki</u>
<b>P-S2-25</b>	Identification and characterization of disease resistance pathway genes in jute ( <i>Corchorus spp.</i> ) Niaz Mahmood, Salma Sultana Alam, <u>Rifat Ara Najnin</u> , Nurun Nahar Fancy, Haseena Khan
<b>P-S2-26</b>	Identification and expression profiling of some salt responsive genes in jute ( <i>Corchorus olitorius</i> var. <i>O-72</i> ) <u>Ahsan Habib Polish</u> and Haseena Khan
<b>P-S2-27</b>	Molecular characterization of soil bacteria by 16S ribosomal DNA gene sequence informatics and study of antibacterial activity of <i>Vitex negundo</i> Linn. against the characterized bacteria <u>Md. Mahfuz-Al-Mamun</u> , Mohammad Abu Hena Mostofa Jamal, Md. Mizanur Rahman, Md. Rezuhanul Islam, Md. Mahfuz Al Masud
<b>P-S2-28</b>	Development of multiplex PCR assay for detection of diarrheagenic <i>Escherichia coli</i> <u>M. Arifur Rahman</u> , Yasmin Ara Begum, Nabilah Ibnat Baby, A. S. G. Faruque, Laila N. Islam, Firdausi Qadri

<b>P-S2-29</b>	PCR-based cloning of two <i>Arabidopsis thaliana</i> genes: <i>CAD1</i> and <i>CDC25</i> , putatively involved in arsenic metabolism in plants. <u>Bulbul Ahmed</u> , Noor Nahar, Aminur Rahman and Abul Mandal
<b>P-S2-30</b>	Isolation and identification of bacteria by blood culture and their drug susceptibility pattern in children to establish the correlation between childhood septicemia with C-reactive protein (CRP) levels <u>Md. Al Jahidi Hasan Chowdhury</u> , M. Shahjahan, K.A R. Sayeed
<b>P-S2-31</b>	Identification and characterization of variant allele 34.1 of STR locus D21S11 <u>Sharif Akhteruzzaman</u> , Ahmad Ferdous, Mohammad. Eunos Ali and Tania Hossain
<b>P-S3-32</b>	Memory B cell response in patients with ETEC diarrhea in Bangladesh Mohammad Murshid Alam <sup>1</sup> , Mohammad Arif Rahman <sup>1</sup> , <u>Md. Mohasin</u> , Amena Aktar, Fahima Chowdhury, Ashraful Islam Khan, Yasmin Ara Begum, Ann-Mari Svennerholm and Firdausi Qadri
<b>P-S3-33</b>	Expression profiling of abscisic acid and glycine betaine biosynthetic pathway's genes and their alteration by different salt stress conditions in jute ( <i>Corchorus olitorius</i> ) <u>Tahria Najnin</u> , Iffat Jahan and Haseena Khan
<b>P-S3-34</b>	Changing trends of antigenic groups of enterotoxigenic <i>Escherichia coli</i> (ETEC) isolated from diarrheal patients between 2007 and 2010 in Bangladesh <u>Y.A. Begum</u> , N.I. Baby, N. Jahan, A.-M. Svennerholm, A. Cravioto, F, Qadri
<b>P-S3-35</b>	Cellular and cytokine responses to <i>Salmonella enterica</i> serotype Typhi proteins in typhoid fever patients in Bangladesh. <u>Md. Abu Sayeed</u> , Md. Saruar Bhuiyan, Farhana Khanam, Taufiqur Rahman Bhuiyan, Alaullah Sheikh, Umme Salma, Richelle C. Charles, Regina C. Larocque, Jason B. Harris, Stephen B. Calderwood, Firdausi Qadri, Edward T. Ryan
<b>P-S3-36</b>	Microbiological quality of salad and water from restaurants of chittagong city and antibiotic sensitivity pattern of some isolates <u>Reaz Mohammad Mazumdar</u> , Tazbidul Nawas, Suman Das, Meher Nigad Nipa, Saiful Islam, Iftekhar Ahmad, Habibur R. Bhuiyan
<b>P-S3-37</b>	Comparative analysis of genotypic and phenotypic characteristics for detection of colonization factors from Enterotoxigenic <i>Escherichia Coli</i> (ETEC) isolated from diarrheal patients <u>Nusrat Jahan</u> , Yasmin Ara Begum, Nabilah Ibnat Baby, Syed Saleheen Qadri, Firdausi Qadri
<b>P-S3-38</b>	Association of serum ferritin level with educational performance among students of Gono Bishwabidyalay in Bangladesh <u>Nurshad Ali</u> , Shakil Mahmood, Abdullah Al Nahid, Rasheda Perveen, Manirujjaman, Farooq Reza, Anwar Hussain, Mustafizur Rahman
<b>P-S3-39</b>	The effects of basal metabolic rate on blood pressure among students of Gono Bishwabidyalay in Bangladesh <u>Nurshad Ali</u> , Abdullah Al Nahid, Shakil Mahmood, Rezaul Islam Khan, Manirujjaman Rasheda Perveen, Farooq Reza, Anwar Hussain, Mustafizur Rahman
<b>P-S3-40</b>	A comparative study on antimicrobial and insecticidal activity of the leaves and fruits of <i>Lawsonia inermis</i> Linn. <u>Nusrat Sharmin</u> and Kamal Krishna Biswas
<b>P-S3-41</b>	Immune responses in Bangladeshi adults and children given the oral cholera vaccine ShanChol <u>Umme Salma</u> , Saha A, Chowdhury MI, Khanam F, Bhuiyan MS, Chowdhury F, Khan AI, Clemens J, Ali M, Cravioto A, Laila N Islam, Qadri F
<b>P-S3-42</b>	Evaluation of parasitic influence on the immune response to an oral typhoid vaccine, Vivotif in children 2-5 years of age <u>Feroza Kaneez Choudhury</u> , Taufiqur R. Bhuiyan, Farhana Khanam, Amit Saha, Md. Saruar Bhuiyan, Md. Abu Sayeed, Umme Salma, Anna Lundgren, David A Sack, Ann-Mari Svennerholm, Syed Saleheen Qadri, Firdausi Qadri
<b>P-S3-43</b>	Screening, isolation and antimicrobial properties of <i>Bacillus</i> sp from sewage <u>Subed Chandra Dev Sharma</u> , Mohammad Shariar Shovon, Golam Sarowar Jahan, Mohammad Abdullah, Nurul Islam and Narayan Roy

## Poster Presentation

**Day 2: February 26, 2012 (Sunday)**  
**Venue: Senate Bhaban, University of Rajshahi**

9.30-12.00 PM	Poster Presentation
P-S3-44	Characterization of memory T cell responses in <i>Vibrio cholerae</i> O1 infected patients <u>Shahidul Islam</u> , Md. Rasheduzzaman, Taufiqur R. Bhuiyan, Md. Ismail Hosen , Mohammad Arifuzzaman, Laila N. Islam, Firdausi Qadri
P-S3-45	Evaluation of the safety and immunogenicity of cholera vaccine candidates in rabbit and mice model <u>Md. Ismail Hosen</u> , Mohammad Nazim, Tahmina Hossain Ahmed, Taufiqur Rahman Bhuiyan, Alaullah Sheikh, Md. Saruar Bhuiyan, Mohammad Murshid Alam, Firdausi Qadri
P-S3-46	Plasma Big endothelin-1 levels and their relation to hypertension and skin lesions in arsenic-exposed individuals <u>Fouzia Yeasmin</u> , Ekhtear Hossain, Khairul Islam, Md. Rezaul Karim, Mashiur Rahman, Smita Agarwal, Shakhawoat Hossain, Abdul Aziz, Abdullah Al Mamun, Seiichiro Himeno and Khaled Hossain
P-S3-47	A mouse model approach for the bioremediation of arsenic toxicity using rhizome of <i>Alpinia calcarata</i> Rosc. <u>Smita Agarwal</u> , Shakhawoat Hossain, Khairul Islam, Fouzia Yeasmin, Mashiur Rahman, Abdul Aziz, Abdullah Al Mamun, Farjana Nikkon, Tanzima Yeasmin and Khaled Hossain
P-S3-48	A dose-response relationship between arsenic exposure and serum immunoglobulin E: A population based study in Bangladesh <u>Mashiur Rahman</u> , Khairul Islam, Md. Rezaul Karim, Shakhawoat Hossain, Abdul Aziz, Fouzia Yeasmin, Abdullah Al Mamun and Khaled Hossain
P-S3-49	Treatment of enteropathogenic <i>E. coli</i> mediated diarrhea with 4-Phenylbutyrate in a rabbit model: Consequences for a novel therapeutic strategy <u>Emon Hossain</u> , Snigdha Tiash, Abdullah Al-Mamun, Protim Sarker, Akhirunnessa Mily, Birgitta Agerberth and Rubhana Raqib
P-S3-50	Characterization of antigen specific memory T cell response to an oral cholera vaccine, Shanchol in different age groups of Bangladeshi participants <u>Deena-Al-Mahbuba</u> , Taufiqur Rahman Bhuiyan, Mohammad Arifuzzaman, Rasheduzzaman Rashu, Ismail Hosen, Amit Saha, Farhana Khanam, Syed Saleheen Qadri, Firdausi Qadri,
P-S3-51	Protective effects of <i>Moringa oleifera</i> Lam. leaves on arsenic-induced toxicity in mice Zahangir Alam Saud, Afzal Sheikh, <u>Abdullah Al Mamun</u> , Fauzia Yeasmin, Smita Agarwal, Mashiur Rahman, Ekhtear Hossain, Khairul Islam, Farjana Nikkon and Khaled Hossain
P-S3-52	Development of B and T cell responses in different age groups of children in Bangladesh <u>Taufiqur Rahman Bhuiyan</u> , Nowrin Nowshaba, Farhana Khanam, Amit Saha, Firdausi Qadri
P-S3-53	Comparison of memory B-cell immune responses among different age groups after oral cholera vaccination <u>Amena Aktar</u> , Abul Kalam Azad, Daniel T. Leung, Md. Mohasin, Taher Uddin, Mohammad Murshid Alam, Mohammad Arif Rahman, Farhana Khanam, M. Asrafuzzaman Riyadh, Fahima Chowdhury, Ashraful Islam Khan, Regina C. LaRocque, Jason B. Harris, Edward T. Ryan, Stephen B. Calderwood, Firdausi Qadri
P-S3-54	Approaches to understanding the long-term immunological memory to <i>Vibrio cholerae</i> O1 <u>Mohammad Murshid Alam</u> , Mohammad Arifuzzaman, Shaikh Meshbahuddin Ahmad, Md. Ismail Hosen, Mohammad Arif Rahman, Rasheduzzaman Rashu, Alaullah Sheikh, Stephen B. Calderwood, Firdausi Qadri
P-S3-55	CCR6 functions as a weak coreceptor for primary human and simian immunodeficiency viruses <u>Salequl Islam</u> , Nasim Ferdous Kallol, Abdul Alim, Atsushi Jinno-Oue, Atsushi Tanaka and Hiroo Hoshino
P-S3-56	Antigen specific memory T cell responses to vaccination with an oral cholera vaccine in Bangladeshi children and comparison with natural cholera infection Mohammad Arifuzzaman, <u>Rasheduzzaman Rashu</u> , Daniel T. Leung, Md. Ismail Hosen, Taufiqur Rahman Bhuiyan, Md. Saruar Bhuiyan, Mohammad Arif Rahman, Fahima Chowdhury, Ashraful I. Khan, Regina C. LaRocque, Ana A. Weil, John D. Clements, Randal K. Holmes, Edward T. Ryan, Jason B. Harris, Stephen B. Calderwood, Firdausi Qadri.

<b>P-S3-57</b>	Cellular and molecular impact of type III secretion system in shigella pathogenesis <u>Kazi Saiful Islam</u> , S. M. Nayeemul Bari, M. Nasir Uddin, and Kaiser Ali Talukder
<b>P-S3-58</b>	Use of antibody in lymphocytes supernatant technique for rapid diagnosis of typhoid fever in patients and its utilization in different health facilities in Bangladesh <u>Farhana Khanam</u> , Alaulah Sheikh, Md. Saruar Bhuiyan, Shahnaz Pervin, Md. Abu Sayeed, Umme Salma, Tania Sultana, Edward T. Ryan, K. Z. Mamun, Firdausi Qadri
<b>P-S3-59</b>	Pest control in kidney bean ( <i>Phaseolus vulgaris L</i> ) experimental field with some botanical pesticides <u>Md. Mizanur Rahman</u> , A. F. M. Arif Sardar, Papia Sultana and Md. Abul Kalam Azad
<b>P-S3-60</b>	Evolution of Beta-lactamase due to unregulated use of antibiotics in some wound infecting bacteria <u>Saifullah Ahmmad</u> , Naimul Hasan and Ariful Haque
<b>P-S3-61</b>	Interaction between arsenic exposure and serum hepatic enzymes used for liver function test <u>Khairul Islam</u> , Abedul Haque, Md. Rezaul Karim, Mashiur Rahman, Seiichiro Himeno and Khaled Hossain
<b>P-S3-62</b>	Multidrug resistant bacteria in the hospital sewage water of Dhaka city, Bangladesh <u>M. A. G. Rabbani</u> and Yearul Kabir
<b>P-S3-63</b>	Immune response to oral cholera vaccine (Dukoral) in arsenic prone area <u>Amit Saha</u> , Mohiul Chowdhury, Mohammad Murshid Alam, Ann Marrie Svenerholm, Firdausi Qadri
<b>P-S4-64</b>	Nitrite sensing activities of Cu nano particles deposited on pencil graphite by fast scan cyclic voltammetry <u>M.A. Hasnat</u> , N. Mohamed
<b>P-S4-65</b>	Biological studies on rhizomes of <i>Zingiber zerumbet</i> Linn <u>Golam Kader</u> , Farjana Nikkon, M. Rowshanul Habib and Tanzima Yeasmin
<b>P-S4-66</b>	Antibacterial and cytotoxic activity of Di-(2-ethylhexyl) phthalate and anhydrosophoradiol-3-acetate isolated from <i>Calotropis gigantea</i> (Linn.) flower <u>M. Rowshanul Habib</u> and M. Rezaul Karim
<b>P-S4-67</b>	Comparison of the effect of iodine nutritional status between normal and autistic children and their performance evaluation <u>Sadia Afrin</u> , Anjan Kumar Roy, Akhirunnesa Mily, Ferdous Jahan and Rubhana Rakib
<b>P-S4-68</b>	Antioxidative and physicochemical properties of aromatic and high yielding variety rice of Bangladesh Sukh Makhnoon, <u>Muhammad Ali Siddiquee</u>
<b>P-S4-69</b>	<i>Syzygiumcumini</i> seed extract protects against hepatic oxidative damage and deterioration of hepatorenal enzymes of alcoholic rats and human subjects <u>Asiqur Rahaman</u> , Mijanur Rahman, Taslima Nahar, Bazlur Karim Choudhury, Borhan Uddin, Shahdat Hossain
<b>P-S4-70</b>	Isolation of acetylcholinesterase inhibitor and antioxidant from <i>Vanda roxburghii</i> relevant to treatment of Alzheimer's disease <u>Mst. Rejina Afrin</u> , Tahira Foyzun, Md. Abdul Kader, Md. Aziz Abdur Rahman and Golam Sadik
<b>P-S4-71</b>	Chemical composition of rainwater in Rajshahi- A risk of acidification Mst. Sharmin Sultana, <u>Dipayon Krisna Ghose</u> , Md.Ruhul Amin, and Md.Tofazzal Hossain
<b>P-S4-72</b>	Comparative nutritional study of two different wild and farmed fish species ( <i>Catla catla</i> and <i>Cirrhinus cirrhosus</i> ) and assessment the effects of fish oil on various blood parameters <u>M. M. H. Khan</u> , M. Manirujjaman and M. A. Islam
<b>P-S4-73</b>	Comparative assessment on the level of cytotoxicity in the rivers of Chittagong city <u>Ayan Saha</u> , Lovely Seal Mili, Yasmin akter, Al-Amin, Adnan Mannan
<b>P-S4-74</b>	Natural Selection in the Cholera Endemic Ganges River Delta Region <u>Elinor K Karlsson</u> , Atiqur Rahman, Ilya Shlyakhter, Jason Harris, Firdausi Qadri, Pardis C Sabeti, Regina LaRocque