

Professor Shah M. Faruque, PhD

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Education:

1978	BSc. (Hons) Biochemistry	University of Dhaka
1979	MSc. Biochemistry	University of Dhaka
1988	PhD (Molecular Biology)	University of Reading, England

Employment Experience:

2017-2018	Professor, Department of Mathematics and Natural Sciences BRAC University, Bangladesh
2015- 2017	Director, Genomics Centre, International Centre for Diarrhoeal Disease Research (icddr,b)*
2012- 2015	Director, Centre for Food and Water Borne Diseases, icddr,b*
1997- 2011	Senior Scientist & Head of Molecular Genetics icddr,b*
1989-1996	Associate Scientist, icddr,b
1988-1989	Assistant Professor, Department of Biochemistry, University of Dhaka
1984-1988	Lecturer Department of Biochemistry, University of Dhaka

* (International Professional Positions)

Academic Appointments:

1984-1988	Lecturer, Department of Biochemistry, University of Dhaka
1988-1989	Assistant Professor, Department of Biochemistry, University of Dhaka
2010- 2011	Part-time Professor, Department of Life Sciences, North South University.
2012-2014	Part-time Professor, Department of Genetic Engineering & Biotechnology, University of Dhaka
2015	Special Guest Professor, Graduate School of Life and Environmental Sciences, Osaka Prefecture University, Japan
2017-2018	Professor, Microbiology and Biotechnology, School of Mathematics and Natural Sciences, BRAC University

Publications (Journal Articles):

1. Naser, IB, Hoque, MM, Ausrafuggaman MN, Tareq TM, Rocky MM, **Faruque SM**. 2017. Analysis of the CRISPR-Cas system in bacteriophages active on epidemic strains of *Vibrio cholera* in Bangladesh. Scientific Reports. 7: 14880, DOI:10.1038/s41598-017-14839-2
2. Islam MA, Islam M, Hasan R, Hossain MI, Nabi A, Rahman M, Goessens WHF, Endtz HP, Boehm AB, **Faruque SM**. 2017. Environmental Spread of New Delhi Metallo- β -Lactamase-1-Producing Multidrug-Resistant Bacteria in Dhaka, Bangladesh. Appl Environ Microbiol. 283(15). pii: e00793-17. doi: 10.1128/AEM.00793-17. PMID:28526792
3. Naser IB, Hoque MM, Abdullah A, Bari SMN, Ghosh AN, **Faruque SM**. 2017. Environmental bacteriophages active on biofilms and planktonic forms of toxigenic *Vibrio cholerae*: Potential relevance in cholera epidemiology. PLoS One.12(7):e0180838. doi: 10.1371/journal.pone.0180838. PMID:28700707
4. Hoque MM, Naser IB, Bari SM, Zhu J, Mekalanos JJ, **Faruque SM**. 2016. Quorum Regulated Resistance of *Vibrio cholerae* against Environmental Bacteriophages. Sci Rep. 6:37956. doi: 10.1038/srep37956.PMID:27892495
5. Zahid MS, Awasthi SP, Asakura M, Chatterjee S, Hinenoya A, **Faruque SM**, Yamasaki S. 2015. Suppression of virulence of toxigenic *Vibrio cholerae* by anethole through the cyclic AMP (cAMP)-cAMP receptor protein signaling system. PLoS One. 10(9):e0137529. PMID: 26361388
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7. Baker KS, Dallman TJ, Ashton PM, Day M, Hughes G, Crook PD, Gilbert VL, Zittermann S, Allen VG, Howden BP, Tomita T, Valcanis M, Harris SR, Connor TR, Sintchenko V, Howard P, Brown JD, Petty NK, Gouali M, Thanh DP, Keddy KH, Smith AM, Talukder KA, **Faruque SM**, Parkhill J, Baker S, Weill FX, Jenkins C, Thomson NR. 2015. Intercontinental dissemination of azithromycin-resistant shigellosis through sexual transmission: a cross-sectional study. Lancet Infect Dis. 15(8):913-21. PMID:25936611
8. Mahmud ZH, Islam S, Zaman RU, Akter M, Talukder KA, Bardhan PK, Khan AI, Rhodes FC, Kamara A, Wurie IM, Alemu W, Jambai A, **Faruque SM**, Clemens JD, Islam MS. 2014.

Phenotypic and genotypic characteristics of *Vibrio cholerae* O1 isolated from the Sierra Leone cholera outbreak in 2012. *Trans R Soc Trop Med Hyg.* 108(11):715-20.

9. Azmi IJ, Khajanchi BK, Akter F, Hasan TN, Shahnaij M, Akter M, Banik A, Sultana H, Hossain MA, Ahmed MK, **Faruque SM**, Talukder KA. 2014. Fluoroquinolone resistance mechanisms of *Shigella flexneri* isolated in Bangladesh. *PLoS One.* 9(7):e102533. PMID: 25028972
10. Kamruzzaman M, Robins WP, Bari SM, Nahar S, Mekalanos JJ, **Faruque SM**. 2014. RS1 satellite phage promotes diversity of toxigenic *Vibrio cholerae* by driving CTX prophage loss and elimination of lysogenic immunity. *Infect Immun.* 82(9):3636-3643. PMID:24935981
11. Hinenoya A, Shima K, Asakura M, Nishimura K, Tsukamoto T, Ooka T, Hayashi T, Ramamurthy T, **Faruque SM**, Yamasaki S. Molecular characterization of cytolethal distending toxin gene-positive *Escherichia coli* from healthy cattle and swine in Nara, Japan. *BMC Microbiol.* 2014; 14:97. doi: 10.1186/1471-2180-14-97.
12. Schirmeister F, Dieckmann R, Bechlars S, Bier N, **Faruque SM**, Strauch E. Genetic and phenotypic analysis of *Vibrio cholerae* non-O1, non-O139 isolated from German and Austrian patients. *Eur J Clin Microbiol Infect Dis.* 2014; 33:767-78.
13. Robins WP, **Faruque SM**, Mekalanos JJ. Coupling mutagenesis and parallel deep sequencing to probe essential residues in a genome or gene. *Proc Natl Acad Sci U S A.* 110:E848-857. doi: 10.1073/pnas.1222538110. 2013.
14. Bari SM, Roky MK, Mohiuddin M, Kamruzzaman M, Mekalanos JJ, and **Faruque SM**. Quorum-sensing autoinducers resuscitate dormant *Vibrio cholerae* in environmental water samples. *Proc Natl Acad Sci USA.* 110:9926-9931; 2013.
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16. Kamruzzaman M, Shoma S, Bari SM, Ginn AN, Wiklendt AM, Partridge SR, **Faruque SM**, Iredell JR. Genetic diversity and antibiotic resistance in *Escherichia coli* from environmental surface water in Dhaka City, Bangladesh. *Diagn. Microbiol. Infect. Dis.* doi:pil: S0732-8893(13)00112-0. 2013.
17. Kamruzzaman M, Bari SM, **Faruque SM**. In vitro and in vivo bactericidal activity of *Vitex negundo* leaf extract against diverse multidrug resistant enteric bacterial pathogens. *Asian Pac J Trop Med.* May 13;6(5):352-359. 2013

18. Zahid MS, Waise Z, Kamruzzaman M, Ghosh AN, Nair GB, Khairul Bashar SA, Mekalanos JJ, and **Faruque SM**. An experimental study of phage mediated bactericidal selection & emergence of the El Tor *Vibrio cholerae*. *Indian J Med Res.* 133:218-24, 2011.
19. Shima A, Hinenoya A, Asakura M, Sugimoto N, Tsukamoto T, Ito H, Nagita A, **Faruque SM**, Yamasaki S. Molecular characterizations of cytolethal distending toxin produced by *Providencia alcalifaciens* strains isolated from patients with diarrhea. *Infect Immun.* 80:1323-32; 2012.
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Conference papers, presentations and workshops:

(Selected Invited Presentations)

1. **Faruque SM**. Plenary Talk: Genomics and Co-evolution of the Cholera Pathogen and its Bacteriophages. SQUARE-ACI International Conference on Biotechnology in Health and Agriculture. December 2017.

2. Naser IB, Haque MM, Nahid MA and **Faruque SM**. Emerging diversity of the CRISPR-Cas system in cholera phages. U.S.-Japan Cooperative Medical Sciences Program (USJCMSP) 19th International Conference on Emerging Infectious Diseases in the Pacific Rim. February 7-10, 2017. Seoul, Republic of Korea
3. **Faruque SM**. Plenary Talk: Genetic and Ecological factors in the epidemiology and evolution of a waterborne bacterial pathogen: the cholera paradigm. Annual Conference of the International Society of Microbial Ecology, Seoul Korea, 2015
4. **Faruque SM**. Invited Lecture: Phage bacterial interactions in the evolution and epidemiology of toxigenic *Vibrio cholerae*. Fifty years of Discovery of Cholera toxin: A tribute to SN Dey. Kolkata, India. October 25-27, 2009.
5. Zahid MS, Udden, SM, Kamruzzaman M., Faruque AS, Calderwood SB, Mekalanos JJ, **Faruque SM**. Phage bacterial interactions in the infectivity and epidemic cycle of cholera and the emergence of genetic variants. 43rd Annual Meeting of the US-Japan medical sciences Program, Fukuoka, Japan. November 17-19, 2008.
6. **Faruque SM**. Invited Lecture: Transmissibility and Epidemic Cycle of Cholera. 13th Meeting of the International Society of Infectious Diseases, Kuala Lumpur, Malaysia. June 19-22, 2008.
7. **Faruque SM**. Invited Lecture: Phages and Cholera. *In*: Program & abstracts of 161st Meeting of the Society of General Microbiology, Edinburgh 3-6 September, 2007.
8. **Faruque SM**, TWAS prize Lecture: "Cholera" *In*: Program & abstracts of the TWAS 10th General Conference, Angra dos Reis, Rio de Janeiro, Brazil 1-6 September 2006.
9. **Faruque SM**, Nair GB, Sack DA, Mekalanos JJ. Progress towards a unified model for cholera dynamics. *In*: Program & abstracts of the 11th Asian Conference on Diarrhoeal Disease (ASCODD), Bangkok, 8-10 March 2006.
10. **Faruque SM**, Key note speech: Cholera dynamics. *In*: Program & abstracts of the Vibrio-2005 Conference, Ghent, Belgium 7-8 November, 2005.
11. **Faruque SM**, Naser IB, Islam MJ, Faruque ASG, Ghosh AN, Nair GB, Sack DA, Mekalanos JJ. Epidemics of cholera inversely correlate with the prevalence of environmental cholera phages (abstract). *In*: Program & abstracts of the Fortieth Anniversary of the United States-Japan Cooperative Medical Sciences Program, Kyoto, 7-10 December 2004:14
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Books

1. ***Vibrio cholerae: Genomics and Molecular Biology***, Editors: Faruque SM, Nair GB. 2008. Caister Academic Press, Norfolk , UK
2. ***Foodborne and waterborne bacterial pathogens***, Editor: Faruque SM, 2012. Caister Academic Press, Norfolk , UK

Awards, Honors and Membership of Scientific Societies

1985-1988	Commonwealth Scholar, University of Reading, England
2006	TWAS prize-2005 in Medical Sciences
2007	Elected Fellow, TWAS: The World Academy of Sciences
2006	Elected Fellow, Bangladesh Academy of Sciences
1996-2007	Senior Associate, Department of International Health, Johns Hopkins University, USA
2015	Special Guest Professor, Graduate School of Life and Environmental Sciences, Osaka Prefecture University, Japan
2008	Member, International Society for Infectious Diseases
2005	Member, Association of Vibrio Biologists
2010-2014	Member VibrioNet Consortium, Germany
1975-2018	Member, Bangladesh Biochemical Society

Field of Research :

Bacteriophage biology and their evolution
Pathogenicity islands and mobile genetic elements
Genomics of enteric bacterial pathogens
Epidemiology, evolution and ecology of enteric pathogens
Quorum sensing and Biofilms
Environmental survival forms of pathogenic bacteria