

CURRICULUM VITAE

Dr. Syed Shahzadul Haque, Ph.D, FSAB
Biochemist



Department of Clinical Biochemistry,
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Professional Profile:

Ph.D. Clinical Biochemist with extensive experience in immunological techniques, cell biology techniques, gene cloning and discovery proteomics. The techniques that I am using is current state-of-the-art, such as PCR, cloning, clinical lab experiences, and have supervisory experience in the design and implementation of research projects.

Education:

Ph.D. Biochemistry, Hamdard University, New Delhi110062, India.

“Thesis title: Antisalmonella activity of NO donors: Molecular, Immunological and Biochemical evaluation of their role in protection against Typhoid

M.Sc. (MS) 1998 Biochemistry, Hamdard University, New Delhi110062, India.

B.Sc. (BS) 1996 Chemistry, Magadh University, Bihar, India.

Membership:

Life member of Indian Immunology Society

Life member of Biological Chemist of India

Life member of society of applied biotechnology

**Associate editor of Journal of Infectious Diseases Letters, ISSN: 0976-8904
& E-ISSN: 0976-8912**

Editor of the Continental Journal of Biological Sciences

**Appointed Microbiology Editor of Web med central (Open Access Biomedical
Publisher Using Post Publication Peer Review)**

Editorial board member International Research Journal of Applied Life Sciences

Editorial board member Pharma publisher journals

Reviewer of American Journal of Biochemistry

Award /Scholarship:

AWARDED 'BHARAT JYOTI' AWARDS IN 2012

NET (ICAR) Qualified: 1999(Animal Biochemistry)

GATE Qualified: Secured 90.59 percentile

Selected for Fellow award -2012(Society for applied Biotechnology)

Awarded summer research fellowship by Indian Academy of Sciences

Experiences:

Long teaching experiences

**M.Sc biotechnology & biochemistry students in IPH&H New Delhi (2003-
2005)**

**Institute of Paramedical Technology New Delhi to DMLT Students
(Aug1998 to 2003)**

**Currently teaching in Indira Gandhi Institute of Medical Sciences
Patna-14 to MBBS and DMLT students**

**Presently working as a Biochemist since jan-2006 to till date in
Indira Gandhi Institute of Medical Sciences Patna-14**

Research Experiences:

Worked on project entitled "Cloning of *Rv0442c* gene in Mycobacterial shuttle vector pMV261 and expression of *Rv0442c* gene in *E.coli* BL21 strain" during April-June 2014(Two months) as a summer research fellow sponsored by Indian Academy of Sciences

- Amplify the *Rv0442c* gene digest the gene with restriction enzymes
- ❖ Isolate the pMV261 plasmid and digest with the same restriction enzymes
 - Ligate and ligation mix was transferred into DH5α cells
- ❖ Isolate the recombinant plasmid from DH5α cells and screen the plasmid with same restriction enzymes (double digestion).
 - Transformation recombinant plasmid (pet28a) into *BL21 strain*
- ❖ Over expression by IPTG induction and determination of optimal conditions.

Scientific Publications:

Full Length manuscript:

1. **Haque SS. Immunological Evaluation of Formulated Drugs against Typhoid.** Maced J Med Sci. <http://dx.doi.org/10.3889/MJMS.1857.5773.2014.0377>.
2. **Evaluation of thyroid profile status in case of type-2 diabetes mellitus in North Indian population** S.S. Haque*, R. Kumari, M.A. Muzaffar, B. Kumari, A. Sharan, U. Kumar, S.Kumar Scientific Journal of Microbiology (2014) 3(5) 62-65 ,ISSN 2322-2948 doi: 10.14196/sjm.v3i6.1352
3. **Estimation of serological marker for the diagnosis of rheumatoid arthritis** S.S.Haque^{a,*}, S. Kumar^b, M. A.Muzaffar^c R. Kumaria, U. Kumare, A. Saran, M.D.Tanweeruddin B. Kumari Scientific Journal of Medical Science (2014) 3(4) 316-319 ISSN 2322-5025 doi: 10.14196/sjms.v3.i4.1254
4. **Haque S.S., Kumar Santosh, Kumari Rekha, Kumar U., Saran A., Tanweeruddin Md. Evaluation of Biochemical marker for the diagnosis of Rheumatoid arthritis. Journal of Health Sciences. 2014;04(01):187-192.**

5. S.S.Haque, Nitric oxide and ciprofloxacin against oxidative stress induced by *Salmonella typhimurium*, *World journal of pharmacy and pharmaceutical sciences*, 2013 :Volume 2, Issue 6, 6212-6219,
6. S. S. Haque , Role of nitric oxide and reduced glutathione and their implication on typhoid, *J Biol Earth Sci*, 201 2; 2(2): M1 1 -M1 4
7. Haque S S **Impact of nitric oxide precursor L-arginine on oxidative stress against typhoid**,2012; 113 (10):589-591, *Bratislava medical journal*
8. S.S.Haque, *International Journal of Pharmacy Teaching & Practices* 2013, Vol.4, Issue 1, 447-450 **Anti Salmonella activity of nitric oxide donor and antibiotic: In vitro studies**
9. S. S. Haque*, A. Sharan and U. Kumar(2011) **Histopathological examination of formulated drugs against typhoid** *Research In Pharmaceutical Biotechnology* Vol. 3(10), pp. 135-141, December 2011, ISSN-2141-2324
10. S.S.Haque(2011)**Therapeutic effect of nitric oxide and antibiotic against *Salmonella typhimurium*** *Journal of Infectious Diseases and Immunity* Vol. 3(15), pp. 258-261, 15 December, 2011, ISSN 2141-2375
11. S.S.Haque (2011) **EFFECT OF NITRIC OXIDE PRECURSOR AND ANTIBIOTIC ON OXIDATIVE STRESS INDUCED BY SALMONELLA TYPHIMURIUM** *Asian Journal of Pharmaceutical and Clinical Research* Vol 4, Suppl 2, 2011 ISSN - 0974-2441
12. S.S.Haque (2011) **Antimicrobial activity of formulated drug against typhoid**, *International Journal of Current Biomedical and Pharmaceutical Research* 2011; 1(4): 178 -181, ISSN: 2231-6264
13. S.S.Haque (2011) **Effect of nitric oxide donors and antibiotic against typhoid**, *International Research Journal of Microbiology (IRJM)* (ISSN: 2141-5463) Vol. 2(6) pp. 259-264, July 2011
14. S.S.Haque, **Evaluation of Biochemical Aspects of Formulated Drugs against Typhoid**, *American Journal of TROPICAL MEDICINE & Public Health* 1(3): 65-72, 2011, ISSN: 2248-986X
15. S.S.Haque (2011) **Formulation of nitric oxide donors and antibiotic against typhoid**, *Journal of Medical Genetics and Genomics* Vol 3(3), pp. 50 - 55, March 2011, ISSN: 2141-2278

16. Tarique Aziz, **S.S.Haque**, Praveen Kumar Sinha, Pranita Srivastava Diagnostic role of Adenosine Deaminase in Tuberculous Pleurisy, Indian medical journal Vol 105, No 62, pp 207-209, June 2011, ISSN: 0091-5871
17. **S.S.Haque** (2011) **Biochemical role of nitric oxide precursor and antibiotic against typhoid**, Journal of Microbiology and Antimicrobials Vol. 3(8), pp. 217-220, August 2011, ISSN: 2141-2308
18. **S.S.Haque** (2011) **ESTIMATION OF RECTAL TEMPERATURE AND BODY WEIGHT OF RAT AGAINST TYPHOID**, International Journal of Biomedical and Advance Research Vol.02 (07), pp. 241-245,
19. **S. S. Haque¹, W. A Siddique², A. Sharan¹, U. Kumar¹, R. Sharma¹**, Immunological Aspects of Formulated Drugs against Typhoid, 2011; 1(1): 1-3, American Journal of Biochemistry.
20. Role of Nitric Oxide against Typhoid (Editorial) Haque S.S. Our editor from Indira Gandhi Institute of Medical Sciences, Patna-14, INDIA, *Research Journal of Biotechnology* Vol. 7 (1) February (2012)
21. **Tarique Aziz¹, S. S. Haque^{2,*}** Role of Widal Test in the Diagnosis of Typhoid Fever in Context to Other Test American Journal of Biochemistry 2012, 2(1): 16-18
22. **S. S. Haque** Evaluation of Adenosine Deaminase (Ada) in Tuberculous Pleurisy American Journal of Medicine and Medical Sciences 2012, 2(1): 1-4
23. **S.S.Haque**, A.Madani, S.A.Khan and S.H.Ansari. "Role of oxidative stress in biological system". Published in Hamdard Medicus, XLX Vol.1 Jan-Mar 2007.
24. *S.S.Haque, Bandana Kumari, M.A.Muzaffar, Rekha Kumari, U. Kuma, A Saran, Md.Tanweeruddin, Pawan Kumar.* Clinical Evaluation of Serum Alpha Feto-Protein (AFP) and Interlukin-6 in Hepatocellular Carcinoma. Journal of life sciences research; Vol. 1, No. 1, 21-23, 2014
25. Estimation of serum Alpha feto protein (AFP), Interlukin-6 and des- γ carboxyprothrombin (DCP) in case of hepatocellular carcinoma, global journal of pathology and microbiology: 2014, vol 2 No-2, 1-3 2015.
26. Ascariasis and coexistent stone in common bile duct in post cholecystectomy post choledocholithotomy in woman: A case report, Evolution of Med and dent Sci vol-3, Issue-61, pg-13621-13624.

27. Kumar S, Haque SS, Sinha MK, Agrawal R, Singh A, et al. (2016) Clinical Correlation between HLA-B27 and Inflammatory Marker in Case of Ankylosing Spondylitis (AS). *MOJ Immunol* 4(2): 00122. DOI: 10.15406/moji.2016.04.00122

28. Manish K S, Mayuri p, S Haque, Rawi A, J Keshari et.al . Evaluation of Lactate Dehydrogenase Activity in Cerebrospinal Fluid in Different Etiology of Meningitis. *Curr Trends Biomedical Eng & Biosci.* 2017; 1(2): 55558

29. Sinha MK, Prasad M, Haque SS, Agrawal R, Singh A, et al. (2016) Clinical Status of Lactate Dehydrogenase Activity in Cerebrospinal Fluid with Age and Sex Distribution in Different Types of Meningitis. *MOJ Immunol* 4(5): 00142. DOI: 10.15406/moji.2016.04.00142

30. Usmani F, Poonam, Sinha MK, Haque SS, Kumari R. Evaluation of Calcium, Phosphorus, and Vitamin D Level in Different Stages of Pregnancy in East Indian Population. *Int J Dent Med Spec* 2017;3(4):16-19.

31. **Sweta Kumari¹, Amod Kumar² Musarrat Parveen³, Amitesh Kumar,*S.S.Haque⁴, Md.Tanweeruddin** Evaluation of tumor necrosis factor- α (TNF- α) and C-reactive protein over lipase amylase ratio for acute pancreatitis in north Indian population, *JMSCR Volume 05 Issue 07 July 2017*

32.

Books:

Molecular-Diagnostics for Sustainable Health In Biosciences & Technology (Book)
ISBN: 978-93-81361-146 Evaluation of Nitric Oxide Donors and Antibiotic against Typhoid S.S.Haque PP. 46-52, 2011

Text book of Biochemistry for B.Sc MLT

Vol-1(ISBN-978-93-83290-18-5)

Vol-2 (ISBN-978-93-83290-19-2)

Vol-3 (ISBN-978-93-83290-83-3)

Fundamental of Biochemistry with clinical evaluation (Satish serial publishing India) ISBN-978-93-85055- 98-0

Selected paper published in conference proceeding

Estimation of Nitric Oxide Metabolites and Antibiotic against Typhoid, S. S. Haque+
*2012 4th International Conference on Bioinformatics and Biomedical Technology
IPCBEE vol.29 (2012) © (2012) IACSIT Press, Singapore*

M.W.Nasser,P.Gautam, **S.S.Haque** and S.k.jain" Effect of NO donor in host defence in murine salmonellosis implication of host redox status" Society of Biological Chemist(India)Nov14-16 2002 Pg 179 (Abstract)

S.K.Jain,T.Hamid,M.W.Nasser,Sharma,**S.Haque**,P.Gautam,
N.Hamid"Identification of a protein in the outer membranes of Salmonella typhimurium that confer protectionn against experimental Salmonellosis.XIX International Congress of Biochemistry and molecular Biology,July 20-24 20003 (Abstract)

Workshop/Seminar:

Participated in the national training organized by ICAR on Strategic use of cryopreserved semen for assisted reproductive technology in NDRI Karnal from Jan2-11, 2012

Participated in workshop on "Advances in modern immunotechnology and Research" organized by AICTE in Dept of biotechnology Karunya University Coimbatore 5th -18th July 2011

Presented a paper on National Conferences held on 20th and 21th July 2011 in Karunya University Coimbatore, India

Participated in 73rd Annual Meeting Society of Biological Chemist (India) 21-24 Nov 2005 at G.B.Pant University of Agricultural and Technology, Pantnagar.

-Indo-UK Seminar: Biomarkers of Ecotoxicity, Cancer, monitoring and Prevention held on August 29, 2004 at Dept of Medical Elmentology and toxicology Hamdard University New Delhi.

-International conferences on Unani medicines held on 8-11 Feb at Vigyan bhavan, New Delhi.

-Participated in workshop on “Bioinformatics tools in genomics and proteomics” at Dept of Biotechnology at Institute of Life Sciences, Bhuvaneshwar.

Presented a paper on 3rd bihar vigyan congress held on 2-4 April, 2010 in Patna.

Presented a paper on east zone ACBI held on 27and 28th Nov 2010 in Jamshedpur

Participated in the national training organized by ICAR on “Molecular Diagnostics and fingerprinting of Salmonella and pathogenic Vibrios associated with seafood and aquatic environments” 14th-27th Feb 2011 in CIFT Cochin.

Participated in workshop on Introduction of bioinformatics” organized by ICMR in Dept of biophysics AIIMS, 27th -30th April 2011

Techniques Known:

Molecular biology techniques:

Isolation of plasmid DNA, Isolation of genomic DNA & digestion by Restriction Endonuclease, Isolation of RNA on Agrasoe Gel Electrophoresis,

Oxidative stress:

Reduced and oxidized glutathione assay, Lipid peroxidation assay, Kinetics of oxidative stress enzymes (Superoxide dismutase, Glutathione peroxidase, Glutathione-S transferase, Glutathione reductase, Catalase and Cytochrome p450 enzymes).

Protein Purification Techniques:

Salt fractionation, Dialysis, Gel filtration, PAGE, SDS-PAGE, Western immunoblotting, Multiplex western blotting, Oxidized protein western immune blot, Immuno dot-blot, oxidized protein immuno dot-blot, Protein Kinase C assay by ligand binding, Isolation of SP-A protein from human BAL, One and two dimensional electrophoresis, Enzyme immobilization.

Cell Culture:

Worked on Hepg2 cell line in different parameters

Immunological Techniques: Immunological Techniques:

Isolation of CD4 and CD8 T-lymphocytes by MACS column (negative and positive selection), Transductions of T cell, FACS analysis, Cell sorting, T cell culture, Isolation of macrophages, Airway smooth muscle, Thymus, Spleen, Lymph node, Isolation and quantification of IgG from serum, Antibody titer, Plaque forming cell assay, Lymphocytes proliferation assay, ELISA for multiple cytokines (TNF-alpha, MCP-1, MIP-2, IL-2, IFN-gamma), Cellularity and cell counting, cell recovery assay, Cytospins for differential counting, Measurement of DTH response. Immunization of animals.

Sterlization Technique: Preparation of culture media, antibiotic sensitivity test

Clinical experiment: Assay of diagnostic enzymes, blood and urine analysis.

Enzyme kinetics: Enzyme assay and enzyme purification.

Computer proficiency: Working knowledge of MS-DOS, MS WORDS,

PERSONAL DETAILS

- Gender : Male
- Nationality : Indian
- Date of birth : 14-01-1973
- Marital status : Married

References:

- 1. Dr.Uday Kumar**
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- 2. Dr.Anand Sharan**
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- 3. Dr.Wasim Ahmad Siddiquie**
Senior Lecturer
Dept of Biochemistry
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New Delhi-62
Email:was.sid@gmail.com

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Signature