

## Kazi Nadim Hasan

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### Education

Hirosaki University School of Medicine, Hirosaki University, Japan

- PhD, Internal Medicine (Laboratory Medicine, Human Molecular Genetics) 2003 – 2007

University of Dhaka, Bangladesh

- Master of Philosophy (M.Phil), Biochemistry and Molecular Biology 2000
- Master of Science (M.Sc), Biochemistry and Molecular Biology  
(First Class, Third Position) 1995
- Bachelor of Science (B.Sc), Biochemistry and Molecular Biology  
(First Class, Fourth Position) 1992

**Research Areas:** Human Molecular Genetics, Molecular Medicine, Molecular Diagnostics,  
Infectious disease Immunology and Epidemiology.

### Professional appointment

1) Associate Professor, Dept. of Biology & Chemistry, North South University

December 26, 2011 – till now

Chairman, Dept. of Biology & Chemistry, North South University

January 01, 2013 – May 18, 2014

2) Assistant Professor, Dept. of Biology & Chemistry, North South University

Summer 2009 – Fall 2011

3) Bangladesh Institute of Research and Rehabilitation in Diabetes,  
Endocrine and Metabolic Disorders (BIRDEM)- WHO collaborating  
center for prevention and control of diabetes, Dhaka, Bangladesh

- Research Officer, Department of Immunology 1996 – 2003; 2007-2009
- Research Fellow, Department of Immunology 1995 – 1996

### Teaching experiences

Part-time Faculty in the Department of Biochemistry and Microbiology,  
School of Health and Life Sciences, North South University

Spring 2008 – Spring 2009

- Courses taught: Biophysical Chemistry, Proteins and Enzymes, Immunology

Assistant Professor, Department of Biochemistry and Microbiology,  
School of Health and Life Sciences, North South University

Summer 2009 – Fall 2011

- Courses taught: Biophysical Chemistry, Proteins and Enzymes, Immunology I, Immunology II, Genes and diseases, Biology I, Laboratory Courses: Biochemistry, Immunology, Molecular biology, Molecular Diagnostics

- Supervised research projects of undergraduate students and dissertations of graduate students

Associate Professor, Department of Biochemistry and Microbiology,  
School of Health and Life Sciences, North South University      December, 2011 – January, 2016

- Courses taught: Biophysical Chemistry, Proteins and Enzymes, Immunology I, Immunology II, Genes and diseases, Biology I, Laboratory Courses: Biochemistry, Immunology, Molecular biology, Molecular Diagnostics
- Supervised research projects of undergraduate students and dissertations of graduate students

Professor, Department of Biochemistry and Microbiology,  
School of Health and Life Sciences, North South University      February, 2016 – Till now

- Courses taught: Biophysical Chemistry, Proteins and Enzymes, Immunology I, Immunology II, Genes and diseases, Biology I, Laboratory Courses: Biochemistry, Immunology, Molecular biology, Molecular Diagnostics
- Supervised research projects of undergraduate students and dissertations of graduate students

Department of Laboratory Medicine, Hirosaki University School of Medicine      2003 – 2007

- Taught MD students of School of Medicine, Supervised research projects of MD students enrolled in the Department.

### **Research and Professional experiences**

Department of Biochemistry and Microbiology, School of Life Sciences, North South University

Ongoing research involving

- Infectious disease immunology and molecular biology with different diagnostic approaches on hepatitis, dengue and pulmonary tuberculosis.
- Association of candidate gene polymorphisms with life style related disorders.
- Nutritional assessment of Foods; Assessment of food adulteration
- Mechanism of Antibiotic Resistance
- Enzymes as industrial catalysts that are capable of producing useful chemicals or eliminate dangerous ones

Hirosaki University School of Medicine, Japan; PhD Research

- Role of vasopressin V1a receptor (V1aR) gene polymorphism in essential hypertension, type 2 diabetes mellitus and platelet responsiveness to vasopressin.

Also involved in-

- Gene expression profiling of platelets from individual with enhanced response to AVP (AVP responder) and individual with low response to AVP (AVP non-responder) by oligoarray using AceGene® Human Oligo Chip 30K 1 Chip Version.
- Platelet V1a receptor mRNA expression in healthy subjects defined by the four SNPs of V1aR gene.
- Micro RNA (miRNA) expression analysis in AVP stimulated CD34+ hematopoietic progenitor cells.

University of Dhaka, Bangladesh; M.Phil thesis

- Evaluation of chronic hepatitis B virus infection using serum DNA level, serological markers and liver function tests.

University of Dhaka, Bangladesh; M.Sc thesis

- Effect of goitrogens (KSCN and AITC) on growth and development of the rat brain.

Department of Immunology, BIRDEM; Research (Employment tenure)

- Infectious disease immunology and molecular biology with different diagnostic approaches on hepatitis, pulmonary tuberculosis and sexually transmitted diseases (STD).
- Genetic backgrounds of diabetic and non-diabetic sibs in young Bangladeshis

Department of Immunology, BIRDEM (Employment tenure)

- Involved in establishing molecular based diagnosis of hepatitis B, C, M tuberculosis; Molecular based tissue typing (HLA A, B, DR, DQ genotyping).
- Supervision of medical technologists involved in the diagnostic serology, immunochemistry
- Taught M.Phil students of the department

## Publications

1. Ashish Kumar Majumder, Md. Abdul Khaleque, **Kazi Nadim Hasan**, Lamyah Sultana Meem and Sharif Akhteruzzaman. Two cases of Klinefelter Syndrome identified by quantitative fluorescence PCR (QF-PCR). *Bioresearch Communications* 2015; 1(1): 17 – 21.
2. Atique FB, Ahmed KT, Asaduzzaman SM, **Hasan KN**. Effects of Gamma Irradiation on Bacterial Microflora Associated with Human Amniotic Membrane. *Biomed Res Int*. 2013; 2 013:586561. doi: 10.1155/2013/586561. Epub 2013 Aug 27.
3. **Kazi Nadim Hasan**, Fahmida Nasrin, M Abu Taher, Sharif Neaz, Sohikul Islam, Obaidur Rahman, Ishrat Jabeen, M Abdul Khaleque, Sharif Akhteruzzaman. Comparative Analysis of Hepatitis C Virus (HCV) RNA, Anti-HCV and Liver Transaminase Levels as Markers and Predictors of infectivity in HCV Infection. *BJMS* 2012; 18(2):120 – 125.
4. Sohikul Islam, Lamyah Sultana Meem, **Kazi Nadim Hasan**, M Abdul Khaleque, Obaidur Rahman. Multidrug resistance of *Pseudomonas aeruginosa* Isolated from Burn Patients. *BJMS* 2012; 18(2):132 – 134 .
5. Obaidur Rahman, **Kazi Nadim Hasan**, Abdul Khaleque, Ishrat Jabeen, Sohikul Islam. Dietary Intake of Urea from Puffed Rice (Muri) in Bangladesh. *BJMS* 2012; 18(1): 53 – 57.
6. **Hasan KN**, Shoji M, Sugimoto K, Tsutaya S, Yasujima M. Role of vasopressin V1a receptor in hypertension, diabetes mellitus and platelet function: genetic polymorphism study. *Hiroaki Med. J.* 2007; 58: 35 – 52.
7. **Hasan KN**, Shoji M, Sugimoto K, Tsutaya S, Matsuda E, Kudo R, Nakaji S, Suda T, Yasujima M. Association of novel promoter single nucleotide polymorphisms in vasopressin V1a receptor gene with essential hypertension in nonobese Japanese. *J Hum Hypertens.* 2007; 21(10):825-7.
8. Zaid RB, Nargis M, Neelotpol S, Sayeed MA, Banu A, Shurovi S, **Hassan KN**, Salimullah M, Ali L, Azad Khan AK. Importance of acetylator phenotype in the identity of Asian populations. *Hum Biol.* 2007; 79(3):363-8.
9. **Hasan KN**, Shoji M, Tsutaya S, Kudo R, Matsuda E, Saito J, Kimura T, Yasujima M. Study of V1a vasopressin receptor gene single nucleotide polymorphisms in platelet vasopressin responsiveness. *J Clin Lab Anal.* 2006; 20(3): 87-92.

10. Aziz MM, Khan AY, **Hasan KN**, Azad Khan AK, Hassan MS. Comparison between IS6110 and MPB64 primers for the diagnosis of Mycobacterium tuberculosis in Bangladesh by polymerase chain reaction (PCR). *Bangladesh Med Res Counc Bull.* 2004; 30: 87-94.
11. Hasanat MA, Rumi MA, Alam MN, Ahmed S, **Hasan KN**, Khan AY, Salimullah M, Mahtab H, Khan AK. Urinary iodine status and thyroid dysfunction: a Bangladesh perspective. *Bangladesh Med Res Counc Bull.* 2004; 30:16-24.
12. Parvez MA, **Hasan KN**, Rumi MA, Ahmed S, Salimullah M, Tahera Y, Gomes DJ, Huq F, Hassan MS. PCR can help early diagnosis of pulmonary tuberculosis. *Southeast Asian J Trop Med Public Health.* 2003; 34: 147-53.
13. Aziz MM, **Hasan KN**, Hasanat MA, Siddiqui MA, Salimullah M, Chowdhury AK, Ahmed M, Alam MN, Hassan MS. Predominance of the DEN-3 genotype during the recent dengue outbreak in Bangladesh. *Southeast Asian J Trop Med Public Health.* 2002; 33:42-8.
14. **Hasan KN**, Rumi MA, Hasanat MA, Azam MG, Ahmed S, Salam MA, Islam LN, Hassan MS. Chronic carriers of hepatitis B virus in Bangladesh: a comparative analysis of HBV-DNA, HBeAg/anti-HBe, and liver function tests. *Southeast Asian J Trop Med Public Health.* 2002; 33:110-7.
15. Gibney L, Saquib N, Macaluso M, **Hasan KN**, Aziz MM, Khan AY, Choudhury P. STD in Bangladesh's trucking industry: prevalence and risk factors. *Sex Transm Infect.* 2002; 78: 31-6.
16. Sayeed MA, Hassan MS, **Hasan KN**, Parvez MA, Khan AY, Salimullah M, Khanam PA, Mahtab H, Khan AK. Genetic background of diabetic and nondiabetic sibs in young Bangladeshis. *Bangladesh Med Res Counc Bull.* 2000; 26:69-74.
17. Rumi MA, Siddiqui MA, Salam MA, Iqbal MR, Azam MG, Chowdhury AK, Khan AYM, **Hasan KN**, Hassan MS. Prevalence of infectious diseases and drug abuse among Bangladeshi workers. *Southeast Asian J Trop Med Public Health.* 2000; 31: 571-4.
18. Hasanat MA, Rumi MA, Alam MN, **Hasan KN**, Salimullah M, Salam MA, Fariduddin M, Mahtab H, Khan AK. Status of antithyroid antibodies in Bangladesh. *Postgrad Med J.* 2000; 76: 345-9.
19. Rumi MA, Begum K, Hassan MS, Hasan SM, Azam MG, **Hasan KN**, Shirin M, Khan AK. Detection of hepatitis B surface antigen in pregnant women attending a public hospital for delivery: implication for vaccination strategy in Bangladesh. *Am J Trop Med Hyg.* 1998; 59: 318-22.

#### **Awards and Honours**

- Rotary Yoneyama Memorial Foundation Scholarship, Doctoral Fellowship, Hirosaki University, 2005 – 2007
- Hirosaki City Scholarship, Hirosaki University, 2004 – 2005
- Honours Scholarship, Japanese Government (Monbukagakusho) Doctoral student Fellowship, Hirosaki University, 2003 – 2004

### **Presentation in Scientific Conferences**

- 10<sup>th</sup> International Congress of Immunology, 1998 held in New Delhi, India.
- 11<sup>th</sup> International Congress of Immunology, 2001 held in Stockholm, Sweden.
- 37<sup>th</sup> Annual Meeting of the European Association for the Study of the Liver, 2002 held in Madrid, Spain.
- Tohoku Society of Laboratory Medicine, 2003 held Hirosaki, Japan
- Tohoku Society of Laboratory Medicine, 2004 held Hirosaki, Japan
- 51<sup>st</sup> National Congress of the Japanese Society of Laboratory Medicine, 2004 held in Tokyo, Japan.
- 52<sup>nd</sup> National Congress of the Japanese Society of Laboratory Medicine, 2005 held in Fukuoka, Japan.
- 53<sup>rd</sup> National Congress of the Japanese Society of Laboratory Medicine, 2006 held in Hirosaki, Japan.
- 21<sup>st</sup> Scientific Meeting of the International Society of Hypertension, 2006 held in Fukuoka, Japan.
- 10<sup>th</sup> Meeting of Hirosaki International Forum of Medical Science, 2006 held in Hirosaki, Japan

### **Professional Affiliations:**

- Member, Japanese Society of Laboratory Medicine, Japan
- Member, Graduate Biochemists Association, Bangladesh
- Member, Bangladesh Society for Biochemistry and Molecular Biology, Bangladesh.
- Member, Japanese Universities Alumni Association in Bangladesh (JUAAB) , Bangladesh
- EC Member, Bangladesh Biosafety & Biosecurity Association (BBBA), Dhaka

### **Referees**

#### **Ishtiaque Mahmood PhD**

Professor  
Department of Biochemistry  
and Molecular Biology  
Faculty of Biological Science  
University of Dhaka.  
Dhaka-1000, Bangladesh

#### **Minoru Yasujima MD, PhD**

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Department of Laboratory medicine  
Hirosaki University School of Medicine  
5, Zaifu-cho, Hirosaki, Japan.

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