



## Curriculum Vitae

### DR. ISHRAT JABEEN

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#### Highlights

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- ✓ Currently working as an **Assistant Professor** in the **Department of Biochemistry & Microbiology**, North South University from Fall 2009 till to date.
- ✓ Recently worked as an **Assistant Proctor, North South University**, from June 2009 till to date.
- ✓ Recently worked as a Faculty member (**Senior Lecturer**) in the **Environmental Science and Management Dept., NSU** from Spring 2005 to Summer 2009.
- ✓ Recently worked as a **Faculty Advisor** of NSU Debate Club and also **Earth club**, North South University.
- ✓ PhD in Plant Genetics from Monash University (January 2019).
- ✓ Completed **Master of Research (MRes)** in **Medical Biochemistry and Molecular Biology** from the **Institute of Biomedical and Life Sciences (IBLS)**, 2003-2004. **University of Glasgow**, Glasgow, Scotland, UK.
- ✓ Completed Master in Science (MSc) from the **Department of Biochemistry and Molecular Biology, University of Dhaka** in 1998 (Exam held in 2000).
- ✓ Worked as an **Assistant Biotechnology Advisor** in the **Ministry of Science and Information & Communication technology (MOSICT)**.
- ✓ Worked as a **Teaching Assistant** in the Dept. of Environmental Studies, **North South University (NSU)**.

#### Scholastic's Records

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##### *Doctor of Philosophy (PhD)*

Completed PhD in plant genetics from **Monash University** in January 2019.  
Research is based on **Genetic analysis of rice differing in glyceimic index (GI)**.

##### *Master of Research (MRes)*

**MRes in Medical Biochemistry and Molecular Biology** in 2004 from the **Institute of Biomedical and Life Sciences (IBLS), University of Glasgow**, Glasgow, Scotland, UK and passed with Merit (B).

#### **Master of Science (M.Sc)**

M.Sc. (Thesis student) from **Biochemistry** in 1998 (Exam. Held in 2000), **University of Dhaka** and passed with 1<sup>st</sup> class 2<sup>nd</sup> with 68.9%.

#### **Bachelor of Science in Honors (B.Sc)**

B.Sc from Biochemistry in 1997 (Exam held in 1998), **University of Dhaka** and passed with 1<sup>st</sup> class 1<sup>st</sup> with 66.31%.

#### **Higher Secondary Certificate (H.S.C)**

H.S.C in 1994 from **Viqarunnisa Noon College**, under the educational Board of Dhaka and got 1<sup>st</sup> division (with star marks and 91.1% marks) from Science group.

#### **Secondary School Certificate (S.S.C)**

S.S.C in 1992 from **Viqarunnisa Noon School**, under the educational Board of Dhaka and got 1<sup>st</sup> division (with star marks and 88.7% marks) from Science group.

#### **Awards**

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- Was awarded the **Ministry of Science, Technology and Innovation, Malaysia** 20132016 and **School of Science, Monash University** to pursue PhD in Monash University Malaysia.
  - Was awarded the **Commonwealth Scholarship and Fellowship Plan (CSFP)** 20032004 for the MRes in University of Glasgow, Glasgow, Scotland, UK.
  - Was awarded **National Science and Technology (NST)**, Bangladesh fellowship (20002001) for working on Plant Biotechnology and Molecular Biology.

#### **Working Experience**

##### **Faculty member (Assitant Professor), Dept. of Biochemistry & Microbiology, NSU.**

1. Currently working as an Assistant Professor in the **Dept. of Biochemistry & Microbiology, North South University.**

Major responsibilities include:

- Maintaining student consulting for courses.
- Testing and evaluating students under direct supervision.
- Submitting the final grades within stipulated time period.
- Attending faculty and parent-teacher meetings.
- Helping NSU on academic and other matters including Different types of laboratory tests, beyond set office hours.

Courses that I do teach at undergraduate level include:

- Introduction to Biology
- Introduction to Biochemistry & Biotechnology
- Chemistry (Basic)
- Biophysical Chemistry
- Metabolism I
- Metabolism II
- Cell Biology
- Endocrinology
- Basic Biochemistry

Conduct Laboratory (Experiments are as following) work:

1. **Biochemical tests** (Glucose, Proteins, LHD/HDL/Cholesterol estimation in Blood serum and supplied sample, Urea, Creatinine, in serum by enzymatic method, Aminotransferase (ALT and ASP) in serum, Creatinine kinase (CK) in serum).
2. **Immunology tests** (Blood Grouping, Widal test, Veneral Disease Research Laboratory (VDRL) test, ASO/CRP test, HBsAg determination test)
3. **Molecular Biology** (preparation of TE buffer, isolation of DNA from onion, Preparation of PBS buffer, CTAB/DTAB buffer, isolation of genomic DNA from whole human blood using CTAB/DTAB buffer, Isolation and purification of Genomic DNA from *E.coli*, quantification of nucleic acid concentration by optical density measurement)

**Supervise students** at undergraduate levels for their Thesis works and Internship both in NSU and Outside (icddr,B and University of Dhaka).

**Duration of period:** Spring 2009 till to date as an Assistant Professor and Fall 2009 - Fall 2018 as a senior Lecturer.

2. Recently worked as an **Assistant Proctor, NSU**.

Major responsibilities include:

- To oversee all university events and activities round the clock, by turn or rotation along with other 2 Assistant Proctors, including after hours and on weekends,
- To work together at larger events to maintain student discipline and orderliness.

**Duration of period:** From June 2009 to March 2013.

3. Recently worked as a Lecturer and then as a **Senior Lecturer** in the **Environmental Science and Management department, North South University**.

Major responsibilities included:

- Maintaining student consulting for courses.
- Testing and evaluating students under direct supervision.
- Submitting the final grades within stipulated time period.
- Attending faculty and parent-teacher meetings.

- Helping NSU on academic and other matters including Different types of laboratory tests including water quality tests, Microbial tests, beyond set office hours.
- Supervised Thesis of undergraduate students and other students for their internship.

Courses that taught at undergraduate level:

- Introduction to Environmental Science, Introduction to Biology, Human Biology, Environment and Health, Environmental Chemistry, Environmental Microbiology, Environmental Toxicology.

**Duration of period:** From Spring 2005 to Summer 2009.

**4. Recently served as a Faculty Advisor of NSU Debate club and also served as a Faculty Advisor of one of the creative student's organizations 'Earth club'- student's activities club NSU.**

My responsibility included guiding the Club and its members in all club related matters (Conduct Seminars, Workshops, Day-long trip, Field-Trip, National and International Day celebration) within the NSU code of conduct.

**Duration of period:** Fall 2006 (November 1<sup>st</sup>, 2006) to August 2009 and April 2010 till August 2011.

#### **Voluntary Services in the Virology laboratory in ICDDR, B**

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- Tissue Culture for maintaining cell line-MDCK (Influenza virus), MA104 (Rotavirus), Splitting, harvesting and inoculating different cell lines with viruses
  - Enzyme Linked Immunosorbent Assay (ELISA) for Rota Virus in Stool sample
  - Polyacrylamide Gel Electrophoresis (PAGE) and Polymerase Chain Reaction (PCR) for Rota Virus.
  - Haemagglutination test (HA) for Influenza Virus

**Duration of period:** October 2004 to December 2004.

**MRes Student in the Molecular Pharmacology Group, University of Glasgow, UK** The Research is based on

- ✓ Subcellular Fractionation of the mouse fibroblast into membrane-cytoskeleton and cytosolic fractions
- ✓ Translocation of G-proteins from the cytosol to the membrane by performing SDS-PAGE
- ✓ Immunoblot analysis (Western Blot)
- ✓ GST-Pull down assay of the required protein.

**Duration of period:** October 2003 to March 2004.

**MRes Student in the Biochemical Parasitology Group, University of Glasgow, UK** The research is based on the uptake assay of a transporter gene *AT-B* that is cloned from the parasitic protozoa *Trypanosoma brucei brucei*-responsible for the sleeping sickness in Africa.

**Duration of period:** May 2004 to August 2004.

### Assistant Biotechnology Advisor in MOSICT, Bangladesh

Worked as an Assistant Biotechnology Advisor in a project named “Ministry of Science and Information & Communication technology Strengthening project” under the Ministry of Science and Information & Communication technology.

**Duration of period:** January 2003 to August 2003.

**Teaching Assitant, Environmental Studies Dept, NSU.**

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Worked as a Teaching assistant in the Environmental Studies department in the North South University and assisted the faculty in preparing course materials.

Major responsibilities included:

- Maintaining class related records
- Helping in scheduling and arranging exams
- Helping students in preparing assignments and understanding course materials
- Working in the environment lab as a lab assistant in maintaing the lab
- Helping students in carrying out various tests regarding water quality.

**Duration of period:** Fall 2001 to Fall 2002.

### **Other experiences**

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- Worked as a lab demonstrator and also as a marker in the School of Science, Monash University Malaysia during PhD program.
- Worked as an MPhil student (not completed) in the **Plant Biotechnology** Laboratory of **Biochemistry and Molecular Biology** Dept. of **Dhaka University** and the research is based on DNA fingerprinting of traditional rice varieties using expressed sequence tags related to salt tolerant genes.
- Worked as a Research fellow in **Plant Biotechnology and Molecular Biology** laboratory of Biochemistry and Molecular Biology Dept. **University of Dhaka**.
- Working experiences in various places of Molecular Biology and Plant Biotechnology such as Polymerase Chain Reaction (PCR), Randomly Amplified Polymorphic DNA (RAPD), and transformation of Plasmid DNA in the Plant Biotechnology laboratory of Dhaka University during my thesis period.
- Worked in the Molecular genetics lab in the Immunology Dept. of **BIRDEM**, Dhaka, Bangladesh from July 2001 to August 2001.

### **Paper Done**

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Mohammed I. Al-Salabi, Lynsey J. M. Wallace, Denise Candlish, **Ishrat Jabeen**, Sreekantan N. Ajith, and Harry P. de Koning (2007). “**Molecular Interactions Underlying the Unusually High Adenosine Affinity of a Novel Trypanosoma brucei Nucleoside Transporter.**” MOLECULAR PHARMACOLOGY Vol. 71:921–929, 2007, No. 3; *Printed in U.S.A.*

Rahman O, Nadim H K, Khaleque A, Jabeen I, and Islam S (2012). “**Dietary intake of urea from puffed rice in Bangladesh**”. Bangladesh Journal of Medical Science. Vol 18, Number 1, March 2012.

Kazi Nadim Hasan, Fahmida Nasrin, M abu Taher, Sharif Neaz, Sohikul Islam, Obaidur Rahman, Ishrat Jabeen, M Abdul Khaleque, Sharif Akhteruzzam (2012). “**Comparative analysis of Hepatitis C virus (HCV) RNA, anti-HCV and liver transaminase levels as markers and predictors of infectivity in HCV infection.**” Bangladesh Journal of Medical Science, *BJMS* 18.

Ishrat Jabeen, Wickneswari Ratnam, Tilakavati Karupaiah and Sadequr Rahman (2018). “**Genes influencing rice starch digestibility-A Mini Review**”. Journal of Genetics (Under Review).

Ishrat Jabeen, Wickneswari Ratnam, Tilakavati Karupaiah, Sharifa Dipti, Sadequr Rahman (2018). “**Starch biosynthesis markers and glycemic index (GI) in rice**”. Food Science and Biotechnology (Under Review).

**Thesis Topic in PhD, Monash University**

Genetic analysis of rice differing in glycemic index (GI).

**Thesis Supervisor**

Sadequr Rahman, Professor of Plant Genetics  
Monash University Malaysia

**Thesis Topic in MSc, University of Dhaka**

Transformation efficiencies of aromatic and salt tolerant high yielding rice varieties using constructs containing genes for antibiotic resistance and for the production of osmolyte, mannitol.

**Thesis Supervisor**

Dr. Zeba Islam Seraj, Professor  
Department of Biochemistry and Molecular Biology, University of Dhaka, Bangladesh

**First Project of MRes, University of Glasgow**

Sphingosine-1-phosphate (S1P) induced activation of Rac and Rho proteins in CCL39 fibroblasts.

**Project Supervisor**

**T.M.Palmer, PhD.**

Senior Lecturer  
Division of Biochemistry and Molecular Biology  
Institute of Biomedical and Life Sciences  
University of Glasgow  
Scotland

## **Second Project of MRes, University of Glasgow**

Characterization of a novel *Trypanosoma brucei* transporter, AT-B by heterologous expression in yeast.

### **Project Supervisor**

**Dr. Harry De Koning**

Senior Lecturer

Division of Infection and Immunity

Institute of Biomedical and Life Sciences

University of Glasgow, Scotland

### **Professional Membership:**

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1. Monash University Alumni Association from 2019 till to date.
  2. General member Commonwealth Scholarship and Fellowship plan since 2005 till to date.
  3. General Member of Bangladesh Biochemical Society Since 2012 till to date.
  4. General Member of Graduate Biochemist Association, Bangladesh Since 2012 till to date.
  5. General Member of Bangladesh Biosafety and Biosecurity Association. Since 2012 till to date.
  6. General Member of American Society of Microbiology, Bangladesh since 2012 till to date.

### **Supervision**

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**Department of Biochemistry and Microbiology, NSU.**

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#### **Graduate Level**

##### **2019**

1. Isolation and characterization of extended-spectrum  $\beta$ -lactamase (ESBL)-producing Enterobacteriaceae from effluents around Dhaka city.-ongoing
2. Identification of fungi of commercially vegetables- ongoing.

##### **2013**

1. Expression analysis of snf gene in jute (SDLT). Faisal Bin Rashid.
2. Interleukin 10 promoter polymorphism on GBS patients.Imtiaj

##### **2012**

1. Genetic prevalence of Norovirus in urban clinic in Bangladesh. Wisam Babar.
2. Sub-typing of Guillain-Barre Syndrome (GBS) variants depending on clinical parameter. Hossain Mahmud Sajib.

##### **2011**

1. Genetic Characterization of Human Pandemic A/H1N1 circulating in Bangladesh. Adnin Ashrafi.
2. Determination of unique identifiers of traditional landraces. Fatima Al Zahra.
3. Guillain-Barré syndrome and Anti-GM1 antibody & Comparative analysis of different treatment options. Ishtiaque Ahmed.

**2010**

1. Isolation and Identification of Bacterial Endophytes in Jute. Taha.

**Department of Environmental Science and Management, NSU**

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**Graduate level (Thesis and Intern)**

- Assessment of Hygiene Practice among the Urban Slum Dwellers of Dhaka City, Fatema T Z, **2008**.
- Hygiene Assessment in water and Sanitation Programs at Urban Slums, Shahnoor H, **2007**.
- The effects of cooking facilities in a household on the indoor air pollution induced diseases, Zareef T M, **2006**.
- Assessing water quality of ice used in food, Fatima AR, **2005**.
- Birds of pakhhir char, Abudullah A D, **2005**.

**Conference and Workshops attended**

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- Jabeen I., Ratnam W., Karupaiah T., Song B.K., and Rahman S. “Proteomic and Genetic approaches to identify markers influencing rice starch digestibility”. 2<sup>nd</sup> International Conference on Molecular Biology and Biotechnology 2017, awarded a prize for excellent poster presenter.
  - Jabeen I., Yazid M. H. M., Ratnam W., Karupaiah T., and Rahman S. “Identification of Novel rice genes influencing starch digestibility”. 21<sup>st</sup> Biological Sciences Graduate Congress (BSGC) 2016, University of Malaya.
  - Ishrat Jabeen, Muhammad Hafiz Bin Mohd Yazid, Wickneswari Ratnam, Tilakavati Karupaiah, Ton So Ha, Sharifah Dipti, Khandaker Aminul Kabir and Sadequr Rahman. “Genetic and Transcriptomic approaches to identify markers influencing rice starch digestibility”. Malaysia International Biology Symposium 2016 (*i-SIMBIOMAS* 2016), University Putra Malaysia.
  - Ishrat Jabeen, Wickneswari Ratnam, Tilakavati Karupaiah on “Marker analysis of *Wx* gene influencing rice starch digestibility”. Monash Science Symposium 2014. • Ishrat Jabeen. ‘Rice: Friend or foe?’ Research in a Flash. Monash Science Symposium 2014.

**Project**

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Current project on "Isolation and characterization of extended-spectrum  $\beta$ -lactamase (ESBL)producing Enterobacteriaceae from effluents around Dhaka city" funded by CTRGC (CTRG19/SHLS/07).

NSU.

**Duration:** 2019-2020.



## **Computer Literacy**

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**Operating System:** MS Windows 97'

**Application Packages:** MS Word, MS Excel, MS Power Point, MS Access

## **Language Proficiency**

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Proficient to communicate both verbally and in text in English and Bengali both in professional and social surrounding.

## **Leisure pursuit**

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Playing Musical Instrument like Violin, guitar, Travelling, Painting, and Watching Movies.

## **Personal Information**

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**Father's Name-**Late Lehaj Uddin

**Mother's Name-** Dilruba Khanam

**Husband's Name** – Tarique Mohammed Ashraf

**Date of Birth-** 1st December, 1977

**Nationality-** Bangladeshi by birth

**Religion-** Islam (Sunni)

**Marital Status-**Married

**Blood Group-** O+

**Permanent Address-** Vill: Mukundgati, P.O: Belkuchi

**Present Address-** House:295, Flat:B1, Road:13, Block:A, Bashundhara Residential Area, Dhaka-1229, Bangladesh

**Home District-** Shirajgange, Bangladesh

## **References**

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### **Dr. Zeba Islam Seraj**

Professor and Chairman

Dept. of Biochemistry and Molecular Biology

University of Dhaka

Bangladesh

### **Dr. Abdul Khaleque**

Professor

Dept of Biochemistry & Microbiology

North South University,

Dhaka

Bangladesh

### **Dr. Sadequr Rahman**

Professor of Plant Genetics

School of Science

Monash University

Malaysia

### **Dr. Harry De Koning**

Professor

Parasite Biochemistry and Pharmacology

Division of Infection and Immunity

Institute of Biomedical and Life Sciences

University of Glasgow, Scotland, UK



Updated on Dec 18, 2019