Sabbir Rahman Shuvo

Address: 19/D Golapbag, Dhaka-1203, Bangladesh

Phone: 01580119117, Email: sabbir2230@gmail.com

Education:

Ph.D. in Microbiology: 2012-2018, in the Department of Microbiology at the University of Manitoba, Canada. **"***Mitochondrial voltage-dependent anion-selective channel (VDAC): A global player of cells".* Supervisor Dr. Deborah Court (https://home.cc.umanitoba.ca/~dcourt/).

B. Sc. in Microbiology: 2008-2011, North South University, Dhaka, Bangladesh. B. Sc. Project: "*Xylanse production from Fusarium and partial characterization of the enzyme*."

Research Interests:

Microbiology, genomics, mitochondria, membrane proteins, bioenergetics, cell biology, proteomics, lipidomics.

Work experiences:

- **Teaching assistant:** January 2014-Present, in the Department of Microbiology, University of Manitoba. (Courses: Microbiology I, 2017; Molecular Genetics of Eukaryotes, 2015-2017; Industrial Bioprocessing, 2015-2017; Immunology, 2014) Responsibilities: Demonstrated experimental protocols to the students
- **Marker:** January 2013-Present, in the Department of Chemistry at the University of Manitoba (Courses: Structure and Modelling in Chemistry,2013-2017; An Introduction to physical chemistry, 2013-2017)
- **Teaching assistant:** September 2013-December 2013, in the Department of food sciences, University of Manitoba. (Course: Food microbiology I). Responsibilities: Demonstrated experimental protocols to the students.
- **Teaching assistant**: September 2010- December 2011, North South University, Dhaka. Responsibilities: Demonstrated experimental protocols to the students.

Teaching Certification course:

- Certificate in Higher Education Teaching: 2015-2017; at the Centre for Advancement of Teaching & Learning at the University of Manitoba.

Mentorship:

Supervised students: Summer 2016, Summer 2017; (Total:3) undergraduate students were supervised for their internships (undergraduate summer research awards) in the lab and a high school student for Sanofi Biogenius Challenge and Manitoba Schools Science Symposium. Responsibilities: designed experiments for the project, demonstrated experiments, helped with literature review.

Professional training:

- **Internship**: 2012; Aristopharma Limited, Bangladesh, a leading pharmaceutical company in Bangladesh. Internship involved training in good manufacturing practice, HACCP (Hazard analysis and critical control points), microbial quality control, product development.

Awards:

- University of Manitoba International Student Scholarship, 2016
- University of Manitoba Graduate Fellowship, 2013-2016
- University of Manitoba International Student Entrance Scholarship, 2012 & 2015
- Canadian Society for Molecular Bioscience Travel Award, 2015
- Faculty of Graduate studies travel Award, 2013
- Recipient of Magna Cum Laude for 3.72/4 GPA in B. Sc., North South University, 2011

Volunteering works and Committees:

- Judge at Manitoba Schools Science Symposium, 2017.
- Volunteer at Info Days from Department of Microbiology at the University of Manitoba, 2014-2017.
- Graduate committee member of the Microbiology Department, University of Manitoba, 2015-2017.
- Volunteer at Science Rendezvous at the University of Manitoba, 2015 & 2016.
- Past member of Senate Committee on Academic Computing of the University of Manitoba, 2015-2016.
- JAAGO Foundation, Bangladesh. An NGO that works with underprivileged children in Bangladesh, 2011.

Publications: Google Scholar link (https://scholar.google.ca/citations?user=RgWMw84AAAAJ&hl=en)

1. D. A. Court, S. Khetoo, **S. R. Shuvo**, S. D. Reitmeier, G. Hausner (2017). In silico analysis of co-evolution among ERMES proteins, Pex11 and Lam6, Can. J. Microbiol. (accepted)

2. **S.R. Shuvo**, U. Kovaltchouk, A. Zubaer, A. Kumar, W.A.T. Summers, L.J. Donald, G. Hausner, D.A. Court, (2017). Functional characterization of an N-terminally truncated mitochondrial porin expressed in *Neurospora crassa*, Can. J. Microbiol. 63:730-738 cjm-2016-0764. doi:10.1139/cjm-2016-0764.
3. **S.R. Shuvo**, F.G. Ferens, D.A. Court, (2016). The N-terminus of VDAC: Structure, Mutational Analysis, and a potential role in regulating barrel Shape, Biochim. Biophys. Acta – Biomembranes: 6:1350–1361
4. Y.W. Lao, M. Gungormusler-Yilmaz, **S. Shuvo**, T. Verbeke, V. Spicer, O.V. Krokhin, (2015). Chromatographic behavior of peptides containing oxidized methionine residues in proteomic LC-MS experiments: Complex tale of a simple modification, J. Proteomics. 125:131-9

Conference Presentations:

1. **S.R. Shuvo**, L. M. Wiens, J. R. Treberg, D.A. Court, (2017). Analyzing mitochondrial bioenergetics pathways in different VDAC mutants. Keystone Symposium: Mitochondrial Communication (Poster).
2. **S.R. Shuvo**, L. M. Wiens, J. R. Treberg, D.A. Court, (2016). Mitochondrial membrane properties in different VDAC mutants. Biophysical Society of Canada Meeting (Poster).
3. **S. R. Shuvo,** and D.A. Court, (2015). Analysis of mitochondrial membranes in different *Neurospora crassa* VDAC mutants. Canadian Society for Molecular Bioscience conference (Poster).
4. **S. R. Shuvo**, and D.A. Court, (2015). Characterization and analysis of relative gene expression of an N-terminus truncated voltage dependent anion selective channels (VDAC) in a *Neurospora crassa* mutant. Prairie University Biology Symposium (Oral).
5. **S. R. Shuvo,** and D.A. Court, (2013). Complementation of a *Neurospora* porin mutant with a human porin. Canadian Societies of Microbiologists conference (Poster).
6. **S. R. Shuvo,** and D.A. Court, (2013). Strategies for complementation of a *Neurospora* porin mutant with the human VDAC. Prairie University Biology Symposium (Poster).

Mitochondrial Genome Sequences:

Assembly of *Neurospora crassa* mitochondrial genome sequences: GenBank KY213951, KY498477, KY498478

Guest speaker:

- "Functional characterization of an N-terminally truncated mitochondrial porin expressed in *Neurospora crassa".* (2015), North South University, Dhaka, Bangladesh

References:

References will be provided upon request.