Mohammed Mahboob Morshed

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Education

Department of Biotechnology, Graduate school of Engineering, Nagoya University, Japan.
Ph.D in Biotechnology in July, 2006.

Ph.D Thesis title:
Analysis of Chicken Ovalbumin and Lysozyme Promoters for Avian Transgenesis.

M.Sc in Biochemistry in 1998 (held 2000), Department of Biochemistry and Molecular Biology, University of Dhaka, Dhaka, Bangladesh.

M.Sc Thesis title:
Study on the association of angiotensin-I converting enzyme (ACE) gene polymorphism with hypertension in Bangladesh population.

Major Coursework: Molecular Biology, Molecular Genetics, Virology, Oncology, Industrial Biotechnology, Cell physiology.

B.Sc in Biochemistry in 1997 (held in 1999), Department of Biochemistry and Molecular Biology, University of Dhaka, Dhaka, Bangladesh.

Major Coursework: Endocrinology, Clinical Biochemistry, Immunology, Metabolism, Brain Biochemistry, Nutrition and Food Biotechnology.

H.S.C in Science in 1994, Dhaka City College, Dhaka, Bangladesh.

S.S.C in Science in 1992, Motijheel Model High School, Dhaka, Bangladesh

Employment Experience:

- Independent University, Bangladesh (IUB), Bashundhara, Dhaka
  School of Life Sciences
  Assistant Professor, September 2015- Present

- Independent University, Bangladesh (IUB), Bashundhara, Dhaka
  School of Life Sciences & Dept. of Biology A& Chemistry, North South University
  Assistant Professor (Adjunct)- Spring, Summer, Autumn Semeters-2015,
  Summer and Fall-2010

- Tissue Engineering Centre, Faculty of Medicine
  National University of Malaysia
  Kuala lumpur, Malaysia
  Post Doctoral Scientist- From April 2013 to April 2014

- Child Health Research Foundation (CHRF)
  Dept. of Microbiology, Dhaka Shishu (Children) Hospital
  Dhaka: 1207, Bangladesh
  Assistant Scientist- From January, 2010 to May, 2012

- Department of Cell and Developmental Biology
  Weill Medical College of Cornell University, New York, NY 10065, USA
  Post Doctoral Scientist- From November, 2008 to November, 2009

- Department of Biotechnology
  Graduate School of Engineering
  Nagoya University, Japan
  Post-doctoral Scientist -From Sept. 2006 to Oct. 2008

Academic Appointments

Independent University, Bangladesh (IUB), Bashundhara, Dhaka
School of Life Sciences
Adjunct Assistant Professor, January 2015- September, 2015
Full time Assistant Professor from September 2015

Research Experience:

School of Life Sciences, Independent University, Bangladesh
Teaching and supervising undergraduate students for senior projects and internship, supervising foreign students who are in exchange program, associate with Tissue Engineering research**.**

Tissue Engineering Centre, Faculty of Medicine, National University of Malaysia, Malaysia
Worked on establishments of non-viral gene/drug delivery system for tumor/cancer treatment and regenerative medicine for skin, bone and muscle tissue, Supervised Ph.D/Master students

Child Health Research Foundation, Dhaka Shishu Hospital, Bangladesh
Coordinated the molecular and clinical issues on neonatal infection between Bangladesh, India, Pakistan and CDC, USA for a project funded by Bill and Melinda Gate's foundation. Conducted seminars, training and presentations. Performed different molecular microbiology experiments for survey.

Weill Cornell Medical College, Cornell University, NYC, USA
Worked on molecular biology, molecular cloning for multiple insertions to make recombinant organism and checking the development, Supervised undergraduate/graduate students.

Dept. of Biotechnology, Nagoya University, Japan
Worked on molecular biology, molecular cloning, and gene silencing and MMLV/RSV/HIV integrase protein analysis. Supervised undergraduate/master students.

Honors/Awards

Monbukagakusho: MEXT scholarship (October 2002 to March 2006) for Ph.D program from the Ministry of Science, Culture, and Education of Japan.

Publications

1. **Mahboob Morshed** and Md. Ezharul Hoque Chowdhury. *Gene delivery and clinical applications.* Accepted, Elsevier's Encyclopediaof Biomedical Engineering.
2. Mohammad Asaduzzaman , Asaduzzaman Shamim , Md. Sazib Mian , Md. Jahangir Alam, Farha Matin Juliana, Nazmul Hossain, Biswajit Das, Runa Asma, **Mahboob Morshed** and Suvra Mitra. *Resistance Pattern of Cefixime Against Uropathogens Causing Urinary Tract Infection In Selected Areas of Dhaka City, Bangladesh*. The International Journal of Engineering and Science (IJES). vol 7(1), 33-39, 2018.
3. *Advances in osteobiologic materials for bone substitutes. Submitted.*
4. *Nanoparticles in Tissue Engineering: Applications, Challenges and Prospects. Submitted.*
5. *Effects of electrospinning variables on fabrication of PMMA nano-fibers, and their effect on cell morphology. Submitted*.
6. Anil Philip Kunnath, SnigdhaTiash, Tahereh Fatemian, **Mahboob Morshed**, Shar Mariam Mohamed and Ezharul Hoque Chowdhury. *Intracellular delivery of ERBB2 siRNA and p53 gene synergistically inhibits the growth of established tumor in an immunocompetent mouse.* Journal of Cancer Science and Therapy, vol 6(4), 99-104, 2014.
7. **Mahboob Morshed**, Nurul 'Izzah, Shiplu Roy Chowdhury and Ruszymah Bt Hj Idrus. *The current available biomaterials being used for skin tissue engineering*. Regenerative Research, vol 3(1), 17-22, 2014.
8. Min Hwei Ng, Shiplu Roy Chowdhury, **Mahboob Morshed**, Kok Keong Tan, Guan Huat Tan, Mun Yee Phang, Bin Saim Aminuddin, Othman Fauziah and Bt Hj Idrus Ruszymah.

Effective Cell Seeding and Three-Dimensional Cell Culture for Bone Tissue Engineering. Journal of Biomaterials and Tissue Engineering, vol 4(7), 573-578, 2014

9. Anwarul Hasan, Md Nurunnabi, **Mahboob Morshed**, Arghya Paul, Alessandro Polini, Tapas Kuila, Moustafa Hariri, Yong-Kyu Lee, Ayad Jaffa. *Recent Advances in Application of Biosensors in tissue engineering.* Biomed Research International, vol 2014, 307519, 2014

10. Mahbuba Meem, Joyanta K.Modak, Roman Mortuza, **Mahboob Morshed**, Shahidul Islam and Samir K. Saha. *Biomarkers for diagnosis of neonatal infections: a systematic analysis of their potential as a point-of-care diagnostics*. Journal of Global Health, vol 1(2), 199-207, 2011.

11. Yujin Inayoshi, Yuuki Okino, Katsuhide Miyake, Akifumi Mizutani , Junko Yamamoto-Kishikawa, Yuya Kinoshita, Yusuke Morimoto, Kazuhito Imamura, **Mahboob Morshed**, Ken Kono, Toshinari Itoh, Ken- Ichi Nishijima, and Shinji Iijima. *Transcription Factor YY1 Interacts with Retroviral Integrases and Facilitates Moloney Murine Leukemia Virus cDNA Integration into the Host Chromosome.* Journal of Virology, vol 84(16), 8250-61, 2010.

12. **Mahboob Morshed**, Munetoshi Ando, Junko Yamamoto, Akitsu Hotta, Hidenori Kaneoka, Jun Kojima, Ken-ichi Nishijima, Masamichi Kamihira and Shinji Iijima. *YY1 binds to regulatory element of chicken lysozyme and ovalbumin promoters.* Cytotechnology, vol 52, 159-170, 2006

13. **Mahboob Morshed**, Shusuke Sano, Daisuke Nishimiya, Munetoshi Ando, Ken-ichi Nishijima, and Shinji Iijima. *Chicken ovalbumin promoter is demethylated upon expression in the regions specifically involved in estrogen-responsiveness.* Bioscience, Biotechnology, and Biochemistry, vol 70, 1438 1446, 2006.
14. **Mahboob Morshed**, Junko Yamamoto, Shusuke Sano, Ken-ichi Nishijima, Masamichi Kamihira and Shinji Iijima. *Biochemical analysis of chicken ovalbumin promoter*. Animal Cell Technology: Basic & Applied Aspects vol. 14", (S. Iijima and K. Nishijima, Eds.), 301-307. Springer Publishers, Germany. 2005.

15. Akitsu Hotta, Masamichi Kamihira, Kanako Itoh, **Mahboob Morshed**, Yoshinori Kawabe, Ken-ichiro Ono, Hiroyuki Matsumoto, Ken-ichi Nishijima and Shinji Iijima. *Production of anti-CD2 chimeric antibody by recombinant animal cells.* Journal of Bioscience and Bioengineering, vol 98, 298-303, 2004.

16. **Mahboob Morshed**, Haseena Khan and Sharif Akhteruzzaman. *Association between Angiotension-I converting enzyme gene polymorphism and hypertension in selected individuals of the Bangladeshi population.* Journal of Biochemistry and Molecular Biology, vol 35, 251-254, May 2002.

Conference Papers and Presentations:

1. Micro-and Nanotechnologies for Medicine: Emerging Frontiers and Application. July 17-21, 2017. Cambridge, MA, USA.

2. Efficient Intracellular Delivery of ROS1 siRNA Sensitizes Breast Cancer Cells to Chemotherapy Drugs. May 14-16, 2017. Genomics, Nanotech and Bioengineering-2017 (ICGNB-2017), Dhaka, Bangladesh.

3. Aetiology of Neonatal Infection in South Asia (ANISA). Second investigators' meeting. October 20-22, 2011, Niagara Falls, Canada.

4. Training on laboratory methods used with the ViiA7 machine and TaqMan Low Density Arrays (TLDA) technology. July 5-11, 2011, Division of Bacterial Diseases, Respiratory Diseases Branch, Centers for Disease Control and Prevention (CDC), Atlanta, GA, USA.

5. Aetiology of Neonatal Infection in South Asia (ANISA). First investigators' meeting. December 5-7, 2010, Cox's Bazar, Bangladesh.

6. Modeling the impact of emerging diagnostics against neonatal infection. September 6-10, 2010, Dubrovnik, Croatia.

7. Characteristics of Hunchback Repressor in Drosophila. The Leadership Alliance National Symposium, July 24-27, 2009, 14750 Conference Center Drive Chantilly, Virginia 20151 USA.

8. Biochemical Analysis of Chicken Ovalbumin Promoter. Japanese Association for Animal Cell Technology (JAACT), November 15 -18, 2004. Nagoya, Japan