

## Mohsin U. Patwary, Ph.D.

Professor of Biology & past Dean of Science 2004-2016, 2019-2022  
PI & Director, NIH-NIGMS-URISE Programs (2014-2020, 2024-2029)  
Director, CUNY Research Scholar Program(2014-present & CIRE program 2024-  
Member, CUNY Advisory Council on Diversity & Inclusion  
President, International Society of Bangladesh-Affiliated Microbiologists  
Medgar Evers College, City University of New York  
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### PROFILE:

An award-winning educator and a mentor with over 48 years of teaching experience both at undergraduate and graduate levels. An accomplished research scholar with over 40 full research papers published in peer-reviewed research journals. Described by colleagues and students as a dedicated teacher and researcher with a capacity to generate original ideas. A leader and an award-winning academic administrator with superior analytical, problem-solving, and organizing abilities and strong communication, management, leadership, and interpersonal skills.

### EDUCATION:

**Ph.D.** (1982): Biology/Genetics, Biology Department, Dalhousie University, Halifax, N.S., Canada.

**M.Sc.** (1972): Botany/Genetics and Cell Biology, Dhaka University, Dhaka, Bangladesh.

**B.Sc.** (1970): Botany, Chemistry and Zoology, City College, Chittagong University, Bangladesh.

Received additional training in Molecular Biology and Biotechnology organized by Johns Hopkins University, Rockefeller University, Cold Spring Harbor Laboratory, NIH, and NSF.

### EXECUTIVE LEADERSHIP TRAINING:

- The City University of New York Executive Leadership Alumni Academy Certificate Program
- Conflict Management, Council of Colleges of Arts and Sciences (CAAS), USA.
- Excellence in Management: Enhancing Performance Change, Process and Results, CAAS, USA.
- Leadership Development Program for Higher Education (LDPHE),
- Harvard University Management Development Certificate Program (MDP),
- The City University of New York Executive Leadership Development Certificate Program,
- Negotiation Strategies with the Staff Unions
- Strategic Planning, Goal-setting, and benchmarking
- Strategic priorities, budget setting, and managing institutional finance
- Recruitment, retention, and graduation strategies
- Educate the Educator.
- Mental Health issues among Students and Teachers and intentional interventions

### TEACHING EXPERIENCE:

**Professor**, Biology Department, Medgar Evers College, Brooklyn, New York, January 2003 - present

**Associate Professor**, Biology Department, Medgar Evers College, New York, Sept. '98 - Dec. 2002.

**Associate Professor**, Biology Department, Jarvis Christian University, Texas, Sept. '96-August '98.

**Research Associate/Consultant/Guest Scientist**, National Research Council Canada, Sept. '89-Aug.'96.

**Sessional Assistant Professor**, Department of Biology, Dalhousie University 1995-96.

**Associate Professor**, Botany Department, Dhaka University, December 1985 - August 1995.

**Assistant Professor**, Botany Department, Dhaka University, October 1982 - November 1985.

**Graduate Student Demonstrator**, Department of Biology, Dalhousie University, Canada, 1978-1982.

**Lecturer**, Botany Department, Dhaka University, June 1975 - September 1982.

## ADMINISTRATIVE AND LEADERSHIP EXPERIENCE:

Dean, School of Science, Health and Technology, Medgar Evers College. 2004 – 2016; 2019-2022

### Major Accomplishments are:

- Direct involvement in planning, designing, construction, multimillion-dollar furniture, and research equipment procurements and move-in phases of \$247M New Science Building.
- Established two state-of-the-art core research facilities with multimillion-dollar equipment.
- Hired 34 new faculty since 2005, 106% net increase
- CUNY Graduate Center doctoral faculty appointment increased by 300%
- PSC-CUNY research awards increased by 250%
- Three faculty received federal research grants for the first time in the history of the college.
- Total grants amount increased 83% over the past five years to 1.7M
- Record increase in faculty peer-reviewed research publications by 500% since 2005
- Since 2005, student enrollment increased by 50% to 2629.
- Student graduation from all programs increased 264% from 159 in 2005 to 419 in 2016
- Multiple headcounts of Students taking science courses increased by over 86% since 2005
- Course sections offered increased by 53% since 2005.
- Since 2006, student allocations for admission to Nursing AAS and PN programs increased by 160%.
- Established Nursing AAS-B.S. dual degree program and PN to AAS bridge program.
- Received full accreditation of two Nursing programs for 8 years.
- Received two-year pre-accreditation of the ENVS program
- Published acclaimed **Science Bulletin** annually - It is in its 6<sup>th</sup> year of publication.
- Merge the Academic Foundation Math (AFD) program with the Math department to streamline AFD student transition to college-level Math courses.
- Received several scholarships/stipends for students from external agencies/ private donors
- Established faculty start-up fund for research support
- Established the Annual Dean's Faculty Research Excellence award
- Established the Annual Dean's Distinguish Service Award for faculty and Staff
- Established the Annual Dean's Distinguish Alumni award
- Established an External Advisory Committee for the school
- Established Annual Recognition Awards for faculty scholarship, grantsmanship, student mentorship, promotion, and tenure.
- Established student Research Mentoring support awards
- Established Annual Research Day, 8<sup>th</sup> year
- Instituted successful intentional interventions by holding several other signature events to engage faculty and students, thereby creating an academic environment for faculty and student retention and success.
  - Dean's welcome letter to all new science students, Dean's new student reception and orientation presentations every semester.
  - Town Hall meetings every semester to learn student concerns and recommendations, 8<sup>th</sup> year
  - Earning while learning initiative for best-performing students, 6<sup>th</sup> year
  - Student internship and volunteering placement initiative, 8<sup>th</sup> year
  - Annual Student Research Awards for best research
  - Support Annual Environmental Issues Conference, 18<sup>th</sup> year
  - Annual Black History Month Seminar on Black Health and minority STEM Education, 8<sup>th</sup> yr.
  - Annual Women History Month Seminar – Women in Science and Math, 8<sup>th</sup> year
  - Annual Dean's Honor List Awards and receptions, 4<sup>th</sup> yr.
  - Annual SSH&T Faculty, Student, Staff, Alumni, and Donors Award Reception- to recognize significant accomplishments.
  - Collaborated with other academic and research institutions for the benefit of our students and faculty, notably with the SUNY Downstate Medical Center, ICDDR, B., ECSU, BNL, YU.

- Received \$100k CUNY support for research equipment purchase.
- Submitted a major grant proposal to NIH for supporting undergraduate research.
- **1.31 M** adjunct cost savings since spring 2011 by prudent scheduling and optimizing class size

**Member**, President's Cabinet, Medgar Evers College (2004-2009).

**Member**, Provost's Council.

**Member**, CUNY Advisory Council on Diversity and Inclusion

Member, CUNY HHS Council

Member, CUNY Council of Administrators for Research Success.

**Chair**, Search Committee for the Dean, School of Business, 2012

**Member**, MEC Search Committee for Associate Provost, 2009

**Member**, MEC Search Committee for Dean of Academic Affairs, 2009

**Member**, MEC Search Committee for Dean of Business, 2009

**Member**, MEC Search Committee for the Dean of Liberal Arts and Education, 2009

**Chair**, MEC Associate Provost Search Committee, 2006.

**Chair**, MEC Faculty Tenure and Promotion Policy Review Committee, 2006.

**Chair**, Academic Deans Committee on MEC Course Scheduling Policy, 2005.

**Chair-in-charge**, Biology Department, from 01/13/ '05 – 02/07/'05.

**Chair**, **President's** Cabinet Taskforce for Reviewing MEC Tutoring Services, 2005

**Chair**, Board of Trustees, J.M.C, New York, 2008- '09

Chairman, Al-Mamoor School Board of Directors, 2024-2025

**Chair**, JMC Nomination Committee to nominate E. C. and Board of Trustees members, 2005.

**Chair**, JMC, New York, Election Commission, 2003

**Member**, **MEC** Assistant Provost Selection Committee, 2005

**Member**, **MEC** Provost and Senior Vice President Selection Committee, 2005

**Member**, Deputy to the Provost Search Committee

**Member**, Steering Committee, CUNY NYC-LSAMP representing the College

**Member**, Cabinet Taskforce for Space re-allocation.

**Member**, Cabinet Taskforce for Employee Relocation.

**Director**, Alliance for Minority Participation (LSAMP) Program, Jarvis Christian College, Hawkins, Texas, 1997, 1998. Organized summer programs, including curriculum development, faculty recruitment, field trips, and social events.

**President and CEO**, Halifax Student Housing Society. Society has a Manager, an Office Secretary, a Building Supervisor, several part-time security over twenty-five unionized employees, and an annual operating budget of over 1.6 million dollars.

**Director**, Management Board, Halifax Student Housing Society

**Head**, Contract Negotiation Team, Halifax Housing Society. The management team included two Directors and a Labor Lawyer.

**Chair**, Legislation Committee, Halifax Student Housing Society, Canada. Revised and rewritten society's by-laws.

**Chairman**, Curriculum Development and Review Committee, Botany Department, Dhaka University.

**Chairman**, B.Sc. Honors Examination Committee.

**General Secretary**, DUTA Flood Relief Committee. Organized and managed a temporary shelter and gruel kitchen at the University campus for 300 flood-affected people for three months on behalf of the Dhaka University Teachers' Association. This was an internationally well-known flood disaster in Bangladesh.

**Team Leader**, DUTA Cyclone relief operation. Organized the team, collected funds and materials, and distributed them among affected people. This cyclone took many lives and caused huge damage to crops and properties in the Manik Gonj district of Bangladesh.

**Team Leader** of the Dhaka University Teachers Association for Tornado Relief Operation. Organized the team, collected funds and materials, and distributed them among affected people in the district of Noakhali for three days. This tornado took over 10,000 lives in the coastal Urirchor area. This is an internationally well-known disaster in Bangladesh.

**House Tutor (1983 – 89)**: Shahidullah Hall, Dhaka University. This part-time position involved sharing general administration and student counseling responsibilities with the Provost of the Hall.

## ACADEMIC AND PROFESSIONAL HONORS AND RECOGNITION

### A. ACADEMIC LEADERSHIP AWARDS

- ❖ Medgar Evers College Science Association “Recognition and Appreciation Award”, 2011
- ❖ The MDEC “Muntu Achievement Award” for Outstanding Scholarship and Leadership, 2010
- ❖ “Education Leadership Award”, Medgar Evers College Community Council, 2008
- ❖ Medgar Evers College Senior Class “Leadership Recognition Award” 2008
- ❖ Medgar Evers College Student Government Association “Recognition Award for professional achievements and commitment to MEC students”. 2007
- ❖ Medgar Evers College Science Association “Recognition Award” 2007
- ❖ National Role Model Administrator Award for Exemplary Achievements in Expanding Opportunities for Others, Minority Access Inc., Washington, DC, 2006

### B. TEACHING AWARDS

- “Tenneco Excellence for Teaching Award” Nominee from Jarvis Christian University, 1998.
- “Most Innovative Faculty Award” by Medgar Evers College Graduating seniors, 2004
- Metropolitan Association of College and University Biologists “Presidents Memorial Award for outstanding contribution to collegiate biology education” New York 2001

### C. ACADEMIC RECOGNITION

- **Eminent Botanist Award**, Bangladesh Botanical Society and the Dhaka University Botany Alumni Association 2024.
- **Million Dollar Grant Awardee Recognition**, CUNY-Medgar Evers College.
- **Who’s Who Among America’s Teachers-Honoring our Nation’s Most Respected Teachers**. Educational Communications, Inc., 2007, Austin, TX.
- **Judge**, Graduate student research Presentation, Minority Access Conf., Washington, DC. 2011
- **Chair**, Plant genetic manipulation session of the International Conference on Plant Tissue Culture and Biotechnology, Dhaka, Bangladesh, 2010
- **Fulbright Senior Specialist Award**, 2009, Gulu University, Uganda.
- **Co-Chair**, Biotechnology for crop improvement session, Intl. Botanical Conf., Dhaka, 2009
- **External Examiner**, Ph.D. dissertation, Dhaka University 2008
- **External Evaluator** for Faculty promotion to full Professor, University of Nigeria, 2008
- **Chair**, Biotechnology and crop improvement session, 4<sup>th</sup> Intl. Conf. on Biotechnology and Plant Tissue Culture, Dhaka, 2004
- **Winrock International (USA) Award** to offer a graduate-level short course at DU, 2004
- **CUNY Certificate of Recognition** for Receiving Grants for Public Service, 2003.
- **CUNY Certificate of Recognition** for Scholarly Achievements, 2002.
- **Conference Chair**, International Plant Tissue Culture Conference, Nov 1-3, 2001.
- **External Member, Ph.D. Committee**, Queens College and CUNY Graduate Center, 2000-‘07
- **ASM Unseen Microbiologist Award**, American Society of Microbiology, 1998
- **Leader**, Undergraduate Microbiology Teaching Material Review Panel, ASM meeting, Emory University, 1998.
- **Chair and External Examiner**, D.Sc. thesis, Berhampur University, India, 2003.
- **External Examiner**, D. Sc. Dissertation of Dr.Padeh, Ph.D., Berhampur University, India. 1992.
- **Member**, UGC Committee for Curriculum Evaluation for the Bangladesh Institute for Post-Graduate Studies in Agriculture, 1987.
- **Chair**, Curriculum Development and Review Committee, Botany Department. Dhaka University. Elected by the member of the Departmental Academic Committee.

## **D. RESEARCH RECOGNITION**

- School of Science Recognition Award for Outstanding Research Publication, 2006
- Associate Editor, Journal of Scientific Research, 88-89. A research journal published by the Bangladesh Association for the Advancement of Science.
- Section Editor (Genetics), Bangladesh Journal of Botany, 83-89. An International research journal published by the Bangladesh Botanical Society since 1973.
- Manuscript Reviewer,  
*Journal of Phycology*, Published by the Phycological Society of America.  
*Journal of World Aquaculture*, Published by the World Aquaculture Society.  
*The Journal of Applied Aquaculture*, Published by the Aquaculture Society of America.  
*In Vivo*, Published by the Metropolitan Association of College and University Biologists.  
*Bangladesh Journal of Botany*, Published by Bangladesh Botanical Society  
*Journal of Scientific Research*, Published by Bangladesh Association for the Advancement of Science.  
*The Dhaka University Studies (Science)*, Published by Dhaka University  
*The Chittagong University Studies*, Published by Chittagong University
- Research Grant Proposal Reviewer, CUNY Research Foundation, 1993.
- Director, Water Quality Research Project, Jarvis Christian College, Hawkins, Texas. 1997-1998. Organized Water Quality Monitoring Training Sessions at Jarvis Christian College. Directed research involving several student researchers and wrote reports.

## **E. GRANTS AWARDS (Over 5 Million)**

- NIGMS Undergraduate Research Initiative for Student Enhancement (U-RISE), \$1.8 M, PI.
- NIH-NINDS BP-Endure (Downstate Medical Univ, BC & MEC), 2.0 M, 2020-2025, Co-PI.
- NIH-Research Initiative for Scientific Enhancement (RISE), 2.3 M for 2014-2020, PI
- CUNY Research Scholar Program, 1.0 M for 2014-present, Program Director at MEC
- CUNY Immersive Research Experience Program. \$65k, 2024-, MEC Program Director
- HSRAC (MEC)-NIH ERDA pilot project grant, 2004-'05
- Winrock International, USA award.
- CUNY Collaborative Research Instrument Grant Award (with Queens College colleagues),
- Department of Defense Infrastructure Development Grant (Co-PI).
- Department of Defense Undergraduate Scholarship grant (Co-PI), 2002
- PSC-CUNY Research Grant Award, 2001-2002
- PSC-CUNY Research Grant Award, 2000-2001
- MEC President's Research Support Grant Award 2001
- CUNY Collaborative Research Grant Award, 1999-2001
- HSRC-NIH-ERDA Research Pilot Project Grant Award, 1999-2000.
- MEC Summer Research Grant Award, 1999-2000
- GRTI Equipment Grant Award, 1999-2000.
- CUNY Research Foundation Equipment Grant Award, 1999-2000.
- Summer Faculty Research Award, OAA, Medgar Evers College, CUNY, 1999
- Texas Consortium for Water Quality Research Grant Award, 1997-1998
- Fisheries and Oceans, Canada Research Grant Award, 1995
- Biotechnology Research Grant Award, 1987-1989

## **F. FELLOWSHIP AWARDS**

- American Society for Cell Biology Summer Visiting Professorship Award. 2002
- American Society for Cell Biology Summer Visiting Professorship Award. 2003
- NIH Fellowship for Molecular Biology and Biotechnology Training at the NIH, 2001
- NSF Fellowship to participate in Biotechnology Course at NIU, IL, 1998.
- Minority Access to Research Career (MARC) Scholarship Award, 1997



- National Research Council of Canada Research Associateship Award 1989 – 93
- Academic Exchange Fellowship Award, Association of Commonwealth Universities, U.K., 1988.
- Dalhousie University Fellowship Award 1978 – ‘82
- Director of Public Instruction Scholarship Award 1970 – 72

## G. INVITED SPEAKER

- Success and Challenges of NIGMS-RISE program at Medgar Evers College, 252<sup>nd</sup> Annual ACS conf. Boston, USA 2018
- Education is Power: Reception of Bangladeshi American students living in the Bronx, NY who have graduated from their class with very high GPAs. 2015
- Celebration of Bangladeshi American students’ accomplishments who got admission to top NYC Specialized High Schools, like Brooklyn Tech, Bronx Science, and Stuyvesant schools, 2014
- Science is the Future – Freshman science students, 2013
- Commencement Speech “Education is Power”, Al-Mamoor School, Jamaica, NY., 2012
- Making an effective presentation, Keynote presentation, Eastern University, Dhaka, Bangladesh, 2010
- Nuts and Bolts of an Effective Presentation, Gulu University, Uganda., 2009
- Biotechnology – a growing frontier, Gulu University, Uganda, Oct. 2009
- LIM domain protein gene characterization in sea scallop, Department of Microbiology, Dhaka University, 2004;
- Molecular markers in Genetic Research. Fourth International Conf. on Plant Tissue Culture. Nov.1-3, 2001
- Teaching at Medgar Evers College-One Year Experience. MEC New Faculty Orientation Program “Preparing For The New Millennium,” Aug. 1999
- DNA-based markers and their use in genetic studies. School of Science Health and Technology, Medgar Evers College, CUNY.
- Genetics and Molecular Biological Studies on sea scallops. Dept. of Biology, Medgar Evers College, CUNY.
- Molecular Genetic Studies on sea scallops. Dept. of Biology, Minot State University, Minot, North Dakota.
- Development of RAPD markers in sea scallops. 75<sup>th</sup> Anniversary Symposium, National Research Council of Canada, Halifax, N.S. Canada.
- Genetic Improvement of *Gelidium vagum*. Marine Biotechnology Symposium, XIV<sup>th</sup> International Seaweed Conference, August 16-21, Brest, France.
- Genetic studies on *Gelidium vagum*. International Workshop on *Gelidium*. Sept. 3-5, Santander, Spain.
- Genetic improvement of *Gracilaria tikvahiae*. Department of Botany, National University of Singapore, Singapore, December 1998.
- Seaweed- a potential source of energy. South Asian Regional Conference on Biomass for Energy, Dhaka, Bangladesh, May 1986.
- Genetic Engineering- the technology and the moral and ethical Considerations. Science and Culture Council, Dhaka, Bangladesh, June 1985.
- Genetic studies on *Gracilaria tikvahiae*. Department of Botany Dhaka University, Dhaka, Bangladesh, October 1983.

## H. LEADERSHIP POSITIONS IN PROFESSIONAL ORGANIZATIONS

- President, International Society of Bangladesh Affiliated Microbiologists, 2024-2025.
- **Vice Chair**, Medgar Evers College Faculty Senate
- **Vice Chair**, Professional Staff Congress-CUNY, MEC Chapter
- **Senator**, the City University of New York Faculty Senate
- **Representative**, MEC Affirmative Action Committee, Elected by faculty of the School of Science Health and Technology, Medgar Evers College.
- **Secretary**, the Dhaka University Teachers’ Association, 86-87. Elected through a general election by full-time faculty.

- **Assistant General Secretary**, the Dhaka University Teachers Association. 1987.
- **Secretary**, Dhaka University Teachers Cooperative. 1987-'88
- **Secretary General**, Bangladesh Botanical Society, 84-87.
- **Joint Secretary**, Federation of the Bangladesh Universities Teachers' Associations, 1988.
- **Joint Secretary**, Bangladesh Association for the Advancement of Science, 87. Elected through a general election.
- **Member Academic Council**, Dhaka University, 1983 – 84. Elected through a general election by faculty members.
- **Senate Member**, 1988 - 90, Dhaka University Senate, Elected through a general election by full-time faculty members.
- **Syndicate (Governing Board/Board of Trustees) Member**, 1986, 87, Dhaka University, Elected through a general election by full-time faculty members.
- **Voting Member**, Faculty Selection and Promotion Committees of eight academic departments, Dhaka Univ., 1986- 87. Nominated by the Syndicate as its representative, Dhaka University.
- **General Secretary**, DUTA Flood Relief Committee. Organized and managed a temporary shelter and gruel kitchen at the University campus for 300 flood-affected people for three months on behalf of the Dhaka University Teachers' Association. This was an internationally well-known flood disaster in Bangladesh.
- **Team Leader**, DUTA Cyclone relief operation. Organized the team, collected funds and materials, and distributed them among affected people. This cyclone took many lives and caused huge damage to crops and properties in the Manik Gonj district of Bangladesh.
- **Team Leader** of the Dhaka University Teachers Association for Tornado Relief Operation. Organized the team, collected funds and materials, and distributed them among affected people in the district of Noakhali for three days. This tornado took over 10,000 lives in the coastal Urirchor area. This is an internationally well-known disaster in Bangladesh.

## **COURSES TAUGHT:**

General Botany, Ecology, Cytogenetics, Dhaka University, 1975-'77  
 General Biology, Genetics, Dalhousie University, Canada, 1978-'82  
 Genetics, Molecular Genetics, Dhaka University, 1983-'89  
 General Biology, Dalhousie University, Canada, 1994-'96  
 General Biology, Microbiology, Environmental Science, Genetics, Cell and Molecular Biology, Jarvis Christian University, Texas, 1996-'98.  
 General Biology, Molecular Biotechnology (developed this course), Medgar Evers College, CUNY, NY. 1998-'05  
 Senior Seminar (Biology Capstone Course) Medgar Evers College, CUNY, NY. 1998-present

## **MENTORING STUDENTS:**

### **DOCTORAL STUDENTS:**

- 2001 Laboratory Rotation Research of Abeer Mohammed, Ph.D. candidate, Queens College and CUNY Graduate Center.  
 2000 Laboratory Rotation Research of Jose Murga, Ph.D. candidate, Queens College and CUNY Graduate Center.

### **MASTERS DEGREE RESEARCH:**

- 2001 Adefunke Adekaumbi M.Sc., Queens College, CUNY. Isolation and Characterization of phytochrome cDNAs of *Ceratopteris richardii*. Supervised Lab rotation.  
 1988 Moinul Islam, M.Sc. Department of Botany, University of Dhaka, Bangladesh. Effect of four fungicides on the growth and cell division process of *Vigna unguiculata* (L.) Walp

- 1987 Shamimul Alam, M.Sc., Department of Botany, University of Dhaka, Bangladesh. Cytogenetics of mosquitoes: Karyotype of *Aedes aegypti*, *Ae. albopictus*, *Culex quinquefasciatus*, *C. tritaeniorhynchus* from Bangladesh.
- 1987 Saima Begum, M.Sc. Department of Botany, University of Dhaka, Bangladesh. Cytotoxic study of Bidrin and Dieldrin on the growth and cell division process of *Triticum aestivum* and *A. cepa*.
- 1987 Ali Ahsan, M.Sc. Department of Botany, University of Dhaka, Bangladesh. Dose response of gamma radiation on the growth, morphology and cytology of *Vigna unguiculata*.
- 1985 Shamima Akhtar, M.Sc. Department of Botany, University of Dhaka, Bangladesh. Karyotype analysis in *Crinum defixum* Ker-Gawl, *C. pratense* and *C. latifolium*.
- 1978 S.H. Mirza, M.Sc. Department of Botany, University of Dhaka, Bangladesh. Meiosis in five species of Commelina (Commelinaceae) from Bangladesh.
- 1976 K. Azad, M.Sc. Department of Botany, University of Dhaka, Bangladesh. Cytogenetic studies on *Hydrilla verticellata*, *Vallisneria spirilis*, and *Ottelia allismoides* (Hydrocharitaceae).
- 1976 Mominul Haque, M.Sc. Department of Botany, University of Dhaka, Bangladesh. Polyploidy in the genus *Monochoria* (Monochariaceae) growing in Bangladesh.
- 1976 Asraful Haque, M.Sc. Department of Botany, University of Dhaka, Bangladesh. Chromosome behavior at meiosis in *Tradescantia sp.*
- 1975 M.Q. Islam, M.Sc. Department of Botany, University of Dhaka, Bangladesh. Studies on the behavior of chromosomes at mitosis and meiosis of *Sagittaria sagittifolia* L. (Butomaceae).
- 1975 Shahin Akhtar, M.Sc. Department of Botany, University of Dhaka, Bangladesh. Cytogenetic studies on *Crinum zeylanicum* L.

### **C. UNDERGRADUATE RESEARCH MENTORING:**

Mentored and supported undergraduate research of over 150 undergraduate students, Summer students/Research Assistants at Medgar Evers College, Jarvis Christian College, and the National Research Council of Canada.

### **PROFESSIONAL AFFILIATIONS/ MEMBERSHIPS:**

- ❖ Council of Colleges of Arts and Sciences- Member of Urban Univ. and Diversity Committees
- ❖ CUNY Academy for the Humanities and Sciences (2000 – 2005).
- ❖ Metropolitan Association of College and University Biologists, New York (1998 - present).
- ❖ Association of New York Area Plant Molecular Biologists (1999 – 2005).
- ❖ Asian American Higher Education Council (2000-present).
- ❖ American Society for Microbiology (1998-99 2022 -present).
- ❖ New York Academy of Sciences (2005-present)
- ❖ American Association for the Advancement of Science (2004-Present)
- ❖ National Association of Biology Teachers (2005-2010)
- ❖ Bangladesh Association for the Advancement of Science, Life Member.
- ❖ Bangladesh Botanical Society, Life Member.
- ❖ International Society of Bangladesh-Affiliated Microbiologist, 2023-2025.
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## **PUBLICATIONS:**

### **A. THESIS AND DISSERTATIONS:**

1982. The Influence of Selected Genetic Parameters on the Performance of *Gracilaria tikvahiae*. Ph. D. thesis, Biology Department, Dalhousie University, Halifax, and N.S., CANADA. pp 215.
1972. Cytogenetics of *Haemanthus kalbreyeri*, *C. stenophyllum*, and *C. amoenum*. M.Sc. thesis, Department of Botany, University of Dhaka, Dhaka, Bangladesh. pp110.

### **B. RESEARCH PUBLICATIONS (full journal articles only):**

- E. L. Kenchington, E. L., **M.U. Patwary**, C.J. Bird, E. Zouros. 2006. Genetic differentiation in relation to marine landscape in a broadcast-spawning bivalve mollusc (*Placopecten magellanicus*). *Molecular Ecology* 15: 1781-1796.
- Patwary, M.U.**, A. Wachope, T.W. Short and E.J. Catapane. 2002. Molecular cloning and characterization of a fructose 1, 6- biphosphate aldolase cDNA from the deep-sea scallops (*Placopecten magellanicus*). *J. Shell fish Res.* 21(2):591-596.
- Patwary, M.U.**, M. Reith and E.L. Kenchington. 1999. Cloning and characterization of tropomyosin cDNAs from the sea scallop *Placopecten magillanicus* (Gmelin, 1791). *J. Shellfish Res.* **18**: 67-70.
- Patwary, M.U.**, C. W. Sensen, R.M. MacKay, and J.P. van der Meer. 1998. Nucleotide sequences of small-subunit and internal transcribed spacer regions of nuclear rRNA genes support the autonomy of some genera of the Gelidiales (Rhodophyta). *J. Phycol.* **34**: 299-305.
- Patwary, M.U.** and J.P. van der Meer. 1997. Construction of backcrossed *Gelidium vagum* male-sterile and male-fertile lines and their growth comparison. *J. Appl. Phycol.* 8:483-486
- Chopin, T., C.J. Bird, C.A. Murphy, J.A. Osborne, **M.U. Patwary** and J.V. Floc'h. 1996. A molecular investigation of polymorphism in the North Atlantic red alga *Chondrus crispus* (Gigartinales). *Phycological Research* **44**: 69-80.
- Patwary, M.U.**, M. Reith and E.L. Kenchington. 1996. Isolation and molecular characterization of a cDNA encoding an actin gene from sea scallop (*Placopecten magellanicus*). *J. Shellfish Res.* **15(2)**: 265-270.
- Patwary, M.U.**, E. L. Kenchington, C.J. Bird, E. Zouros. 1994. The use of Random amplified polymorphic DNA (RAPD) markers in genetic studies of the sea scallop *Placopecten magellanicus* (Gmelin, 1791). *J. Shellfish Res.* **13(2)**: 547-553.
- Patwary, M. U.** and van der Meer. 1994. Application of RAPD markers in an examination of heterosis in *Gelidium vagum* (Rhodophyta). *J. Phycol.* **30**: 91-97.
- Patwary, M.U.**, R.M. Ball, C.J. Bird, B. Gjetvaj, S. Sperker, E.L. Kenchington, E. Zouros. 1994. Genetic markers in the sea scallop and their application to aquaculture. *Bull. Aquacul. Assoc. Canada* 94 (2): 18-20.

- Patwary, M.U.**, R.M. MacKay, and J.P. van der Meer. 1993. Revealing genetic markers in *Gelidium vagum* (Rhodophyta) through the Random Amplified Polymorphic DNA (RAPD) technique. *J. Phycol.* **29** (2): 216-222.
- Patwary, M.U.**, and J.P. van der Meer. 1992. Genetics and Breeding of Cultivated Seaweeds. *Korean J. Phycology* **7(2)**: 281-318.
- Akhter, S, Sk. S. Alam, M.A. Zaman and **M.U. Patwary**. 1992. Intraspecific variation in chromosome morphology of *Crinum latifolium*. *Bangladesh J. Bot.* **21 (1)**: 73-79.
- van der Meer, J.P., and **M.U. Patwary**. 1991. Genetic alleviation of the self-fertilization complication when hybridizing monoecious *Gelidium vagum*. *Hydrobiologia* **221**: 167-179.
- Patwary, M.U.**, M. Haque, and M.A. Zaman. 1989. Polyploidy in *Monochoria hastata* Solms., and *M. vaginalis* Prest. grown in Bangladesh. *Cytologia* **54**: 505-511.
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## **SERVICE TO THE COMMUNITY:**

- Chairman**, Al-Mamoor School Board of Directors 2024-2025.
- Chairman**, Board of Trustees, Jamaica Muslim Center (JMC), New York, 2008- '09
- Member**, JMC Board of Trustees, 2010-2011
- Chairman**, JMC Nomination/ Selection Committee for selection of E.C. and BOT members, **five times**.
- Chairman**, JMC Constitution Committee, **five times**.
- Chairman**, JMC, Election Commission, 2004
- Member**, JMC, Election Commission, 2002
- Chairman**, Curriculum Development and Review Committee, Al-Mamoor School
- Chairman**, Al-Mamoor School Teacher Search and Selection Committee.
- Chairman**, Al-Mamoor School Constitution Review and Amendment Committee
- Director**, Al-Mamoor School Board, **eight years**
- Commencement Speech** "Education is Power", Al-Mamoor School, Jamaica, NY., 2012
- Director**, Jamaica Estates Association
- Chairman**, Jamaica Estates Association Gardening Club
- Member**, JEA Nomination Committee.
- Chairman**, Advisory Committee, ASAAL, Queens Chapter
- Advisor**, ASAAL National Committee
- Chairman**, **13th** ASAAL National Conference
- Convenor**, Sirajul Alam Khan Sriti Parisad in USA, 2023-2024
- External Advisor**, The Dhaka University Botany Alumni Association

## **COMMUNITY SERVICE AWARD:**

- ❖ Honorable Citation by the Queens Borough President for Education & Community Service, 2019
- ❖ Honorable Citation from NYS Assembly (Assemblyman David Weprin)
- ❖ Honorable Citation from Nassau County Chief Executive for Community Service, 2011
- ❖ "Leadership Award" for Community service, DC 37 Asian Heritage Committee
- ❖ Community Service Award, Bangladeshi American Cultural Association, Inc. 2022

## TEACHING PHILOSOPHY

Our fundamental task as teachers is to prepare our students to courageously face the reality of life. To me, teaching is a profession of transforming lives. We teach students facts and principles of the subject matter and help them to develop higher-order thinking skills. To be effective in this task, I believe a teacher should first have expert knowledge of the subject, and then be well-prepared and organized in presenting the material. An effective teacher must behave as a role model with high moral and ethical standards, show enthusiasm for the subject, and warmth towards the students, and be respected. Teachers must remain alert to detect students' confusion and have patience and time to clarify points creating this difficulty. I understand well what William Arthur Ward said "*The mediocre teacher tells. The good teacher explains. The superior teacher demonstrates. The great teacher inspires.*" Teachers must treat students fairly within the context of their teaching responsibility. Teachers must be good motivators to generate students' desire to learn. They must be prepared to be good listeners, and questioners as well as good lecturers. I believe that only the best quality faculty can develop the best quality curriculum and the best quality graduates.

At the beginning of a class, I always ask students if they have questions about the previous lesson before continuing with new material. I begin by presenting an outline of the lesson, linking it to material already covered. I then proceed systematically through the lecture and present a summary at the end. During the lecture, I watch the students' faces to see if they are following the presentation or getting lost. In the latter case, I pause, try to lighten the mood a bit, and repeat the material using different analogies, and wording before proceeding further. I emphasize concepts rather than asking students to memorize facts. I am creative and open to change. I have a passion for continuous learning and self-improvement.

I use both teacher-centered and learner-centered learning approaches in my teaching. I encourage students to develop their own ideas and to ask for clarification if they do not understand something. I try to make them understand that there is no such thing as a foolish question when a person is sincerely trying to learn. I make my lecture transparencies and relevant articles available to students for copying. I believe that the best undergraduate science course format includes classroom instruction, tutorial sessions, and hands-on laboratory exercises. Like many other science educators, I believe that one learns science by doing science.

In terms of maintaining a disciplined teaching environment, I insist on quiet and orderly conduct during lectures; however, I always try to see the situation from the student's perspective, stand in their shoes as well as my own and don't worry about minor infractions. I try to concentrate on the cause of problems rather than the effect in seeking solutions. I am a good listener. I can be firm or permissive depending on the requirements of the situation with an understanding of what John C. Maxwell said, "*Students do not care how much you know until they know how much you care for them*". I expect to see honesty in my students and a willingness to work hard to achieve my course goals.

I believe every student can learn. I am dedicated to our students' success and I feel their accomplishments are my success, and I take pride in it. I am comfortable in interactions with students from diverse racial and religious backgrounds, as I am a strong believer in the fundamental equality of all humans. This last point I believe to be very important, as teaching is a human process that requires positive interpersonal relationships for success.

## ADMINISTRATIVE PHILOSOPHY:

More than forty-eight years of teaching and research experience have fostered my growth into an award-winning teacher. Several executive leadership training, long services as an academic Dean, member of the college executive council, and an executive member in professional organizations and faculty unions, and extensive participation in committees and taskforces have furthered my development as a respected academic leader and efficient manager. In brief, what I am now is the end product of many years of professional and life experiences.

I have developed the skills needed to solve problems and resolve conflicts among individuals. During my long professional career as a Dean, as a leader of the faculty unions and professional organizations and a syndicate, and as a Senate member of a large university, I resolved many faculty, staff, and student conflicts involving a variety of academic and administrative issues. Colleagues approach me to express their concerns without the expectation that I can solve all their problems. They come to me because I am a good listener, a good motivator, a good analyzer of facts and situations; because I have patience, integrity, and a positive attitude. Above all, they approach me, because I treat them and students with respect, the way I like to be respected.

A [Dean](#) is the academic leader as well as an administrator of the institution. I understand that a good leader must have the ability to efficiently persuade his/her people to set aside their concerns and pursue a common agenda that is important for their students and for the institution they serve. To do so efficiently, a leader must be familiar with institutional governing rules and processes, its missions and goals, history, culture and traditions, its staff and faculty, its programs, problems, and its position among its peer institutions. I believe the leadership of a [Dean](#) in an educational institution should be measured by the level of influence he/she has on his/her senior administrators, faculty, students, staff, and the broader community he/she serves. Influence in turn depends on the person's credibility, which stems from his/her credentials, vision, character, values, integrity, and actions.

Although, I make day-to-day decisions and implement them using my common sense with very little input from others, for substantial policy issues involving departments or the entire school, I use a more participatory/consultative decision-making process. While this process slows decision-making, I believe shared decisions help ensure the selection of the best possible alternatives. This inclusive method also promotes a sense of community and partnership for the common good. I frequently do self-assessment and reflection to evaluate my actions and to celebrate my success and the successes of my colleagues, faculty, and the students with whom I work.

Some of the most important functions of an Academic Dean are to advise senior administration on academic matters and to facilitate and oversee academic departments' efforts in hiring the best quality faculty, developing challenging and contemporary curricula, creating new academic programs, writing grants and in conducting their student recruitment activities. With support from the head of the institution, he/she should be able to efficiently implement cabinet decisions and facilitate the creation of a supportive, stimulating, and nurturing environment in which faculty and students can engage in their learning process. I believe an effective Dean is sensitive to the needs of his/her cabinet colleagues, students, faculty, and staff and maintains an open-door policy to meet their varied requirements. He/she must have the traits, skills, and experience required to get diverse interest groups to work together. Being a long-time member of the University Council on Diversity and Inclusion, I see diversity as an asset and not a liability as we can learn so much from diverse perspectives. I am good at producing results through teamwork, resolving conflicts, communicating efficiently, and motivating others. I enjoy greatly and feel very proud seeing my colleagues and students surpass me in their achievement

I believe that a successful academic leader is faculty and student-centered, and who can maintain a respectable professional relationship with members of the university's senior management, his/her cabinet colleagues, faculty, staff, and student leadership. He/she is loyal, courageous, creative, hard-working, facilitates teamwork, makes decisions based on principles, policies, and evidence, treats his/her people fairly, and knows when and how to make decisions. He/she must be firm or flexible depending on the situation, be compassionate, enthusiastic, and retain a sense of humor. He/She encourages his/her people to do their best, recognizes their accomplishments, and rewards their significant achievements. I believe a leader must be trustworthy and has the credibility to lead the community he/she serves.