Curriculum Vitae

G.M. SAYEDUR RAHMAN, PhD (Pharmaceutics, PPS, University of Houston COP)

PROFESSOR

Department of Pharmaceutical Sciences, School of Health & Life Sciences (SHLS), North South University

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ACADEMIC BACKGROUND

- Post-Doctoral Training, Cancer Medicine, 2012-2014, MD Anderson Cancer Center, University of Texas, Houston, USA
- Doctor of Philosophy (PhD, Pharmaceutics), 2007-2012, College of Pharmacy, University of Houston, USA
- Master of Philosophy P-1 (Pharmacy), 1996-1998, Department of Pharmacy, University of Dhaka
- Master of Pharmacy (MPharm), 1993-1994, Department of Pharmacy, University of Dhaka
- Bachelor of Pharmacy (BPharm), 1990-1993, Department of Pharmacy, University of Dhaka

RESEARCH EXPERIENCE

Post-Doctoral Training (Sept. 2012-Sept. 2014)

In my post-doctoral training in University of Texas MD Anderson Cancer Center, Houston, I worked on the new generation anti-cancer platinum compounds, which may circumvent the platinum-resistance in the non small cell lung cancer (NSCLC) harboring the mutated p53 protein. Our work demonstrated that all platinum drugs currently used in the clinical setup as well as those new drugs we worked on fall into two distinct categories identified by correlating their IC_{50}s for the non small cell lung cancer cell line. In addition, we identified several possible genes, which are likely to be related to the mechanistic pathway of the platinum drugs by the correlation of their IC_{50}s to the different protein expressions in NSCLCs through RPPA (reverse phase protein array) analysis. The ongoing translational work focused on how the new generation platinum drugs might restore the wild type p53 functionality in the non-small cell lung cancer cell lines to circumvent the platinum resistance. I employed my pharmaceutics and med. chem. expertise to formulate the stable aqueous formulation of the new platinum drugs for the *in vitro* and *in vivo* cytotoxicity screening. We used hydroxy propyl beta cyclodextrin as solubilizer to make the stable aqueous formulation for all new compounds.

Doctor of Philosophy (PhD) (Jan. 2007-Aug. 2012)

In my PhD research, I solved the crystal structure of the second cysteine rich regulatory domain of mouse protein kinase C Theta (PKCθ) at 1.63Å, which our group considered as a new molecular target for designing PKCθ inhibitor for the management of overactive immune responses. In the later stage I identified the activator binding residues in this domain through virtual molecular docking of a library of activators (DAG and phorbol ester analogs), followed by selective point mutations in the isolated domain as well as in the full-length kinase. Biopharmaceutical techniques such as Intrinsic Protein Fluorescence Quenching Assay and Radio Labeled Activator Protein Binding Assay were utilized to determine the effect of mutations on activator binding (K_d and K_i) in isolated domain. On the other hand, Membrane Translocation Study was utilized to determine the effect of mutation on the kinase activity. Results showed that the mutants exhibited significant reduction in the binding affinities for activators to the isolated domains and reduction in the membrane translocation compared to the wild type, indicating the mutated residues were important in activator binding as well as in the kinase activity.

Master of Pharmacy (MPharm) (July 01, 1993-June 30, 1994)

In the M. Pharm. I completed the theoretical courses and continued research for the fulfillment of the degree. The thesis defended titled, "Anti Tumor Activity of *Commelina benghalensis*". My research work included isolation, purification and structure elucidation of the biologically active compounds from the Plant *Commelina benghalensis*. The laboratory works also included Anti-tumor Screening of the isolated compounds and different solvent soluble fractions using Brine Shrimp Lethality Bioassay and Potato Disc Bioassay. Organic solvent extracts from the plant showed preliminary positive results in tumor inhibition.

TECHNICAL SKILLS

- Knowledge on Cloning, site directed mutagenesis, design of expression vectors (for *E. coli*), RT-PCR.
- Expertise in DNA/ RNA/ protein expression, purification, identification and characterization using various biophysical methods (SDS PAGE gel, Western blot, Agarose gel, UV-visible, Fluorescence, and Mass spectroscopy).
- Experience on biopharmaceutical application of different chromatographic tools (UPLC, HPLC, gel filtration, affinity chromatography) and spectroscopic methods (UV-visible, Fluorescence, IR, Mass, NMR and Circular dichroism (CD).
- Knowledge on manual protein crystallization setup (hanging drop and sitting drop vapor diffusion method) and automated high throughput crystallization (Mosquito HTS robotic Nano-Liquid system).
- Experience on transfection and mammalian cell culture (CaCo2, HEK293, MCH7 and HeLa cell lines), cell viability assay (MTT assay), analytical ultracentrifugation for cytosolic and membrane fractionation.
- Experience in biopharmaceutical techniques like drug protein binding study using protein intrinsic fluorescence quenching assay and radio labeled drug protein binding assay. Study of the protein folding manipulation using Fluorescence and CD.
- Hands on experience in different molecular visualization software (UCSF Chimera, PyMol, Swiss PDBviewer, iPBA web server, PHYRE 2.0, CASTp).

- Working knowledge on protein sequence analysis and alignment tools (BLAST), homology modeling using various software (SWISS MODEL, INSIGHT II), protein-ligand (SYBYL 8.0) and protein-protein docking studies (GRAMM and Hex), DNA sequencing tool (FinchTV and Gene Runner).

- Computer knowledge: MS Word, Excel, PowerPoint, Adobe Photoshop, Canvas, Igor Pro, Prizm, Chem draw.

- Independently capable of writing protocols, reports, methods, SOPs, and submission documents for official records and regulatory inspections.

- Prior experience as Pharmaceutical Quality Control Analyst in conducting standard and advanced pharmaceutical analytical testing for the bulk drugs and the finished dosage forms prior shipping as per the official monographs (USP, NF, Martindale, BP etc.).

- Experience in solid-state characterization techniques *e.g*. TGA, Hot Stage Microscopy, particle size & shape characterization, optical and polarized microscopy for powder characterization, Karl Fisher titration for moisture absorption in the powdered drugs, Surface Tension and Solubility determination using HPLC.

- Knowledge on various pharmaceutical and physico-chemical characterizations of API and excipients for the formulation development.

- Prior experience on calibration and maintenance of analytical equipment and capable of following the quick troubleshooting of laboratory equipment in pharmaceutics lab.

- Capable of develop and introduce new pharmaceutical analytical techniques, evaluate and validate the existing analytical methods according to official monograph.

- Hands on experience in different types of *in vitro* dissolution methods as per USP.

WORK EXPERIENCE AND TRAINING

- Currently serving as a Full-time Professor (April 01, 2022-Present) in Department of Pharmaceutical Sciences, SHLS, North South University, Dhaka, Bangladesh.

- Served as the two times Department Chair (February 01, 2019-January 09, 2023) in Department of Pharmaceutical Sciences, SHLS, North South University, Dhaka, Bangladesh.

- Served as an Associate Professor (March 01, 2017-March 31, 2022) in Department of Pharmaceutical Sciences, SHLS, North South University, Dhaka, Bangladesh.

- Served as an Assistant Professor (September 29, 2014-February 28, 2017) in Department of Pharmaceutical Sciences, SHLS, North South University, Dhaka, Bangladesh.

- Post-Doctoral Research Fellow, Cancer Medicine, University of Texas MD Anderson Cancer Center (September 2012-September 2014)

- During my graduate study in University of Houston College of Pharmacy, I was assigned as Teaching Assistant for pharmaceutics, biopharmaceutics, advanced pharmacokinetics, advanced pharmaceutics and pharmacy compounding skill lab for the Pharm. D students (January 2007-August 2012). The job included mentoring the Pharm. D students, conducting the exams and grading.

- Assistant Professor, Department of Pharmacy, Northern University Bangladesh, Dhaka (01st July 2006-31st December 2006). I taught physical pharmacy, pharmaceutics, and pharmacokinetics both in under graduate and graduate Pharmacy students.

- Part Time faculty (Assistant Professor), Department of Pharmacy, Northern University Bangladesh, Dhaka (01st October 2003-30th June 2006). I taught physical pharmacy, pharmaceutics, and pharmacokinetics course for both under graduate and graduate Pharmacy students.

- Part time faculty for Advanced Chemistry & Biology, O-Level and A-Level, Oxford International School, Dhaka, Bangladesh (10th January 2001-30th June 2005).

- Lecturer, Pharmacy Discipline, Khulna University, Bangladesh (18th October 1998-31st December 2000). I taught physical pharmacy, pharmaceutics, pharmacokinetics, and medicinal chemistry, biomolecular pharmacy and biochemistry courses for both under graduate and graduate Pharmacy students.

- Quality Control Officer, SK+F Pharmaceuticals Bangladesh Ltd., Dhaka (01st November 1997-14th October 1998). (mentioned before in professional strength)

- Completed one-month hands on in-plant training (part of B. Pharm. courses) in BEXIMCO Pharmaceuticals Ltd. Bangladesh, one of country's largest Pharmaceutical Industry to strengthen the pharmaceutical knowledge base and the understanding of pharmacological aspects of drugs. Training included on Solid Pharmaceuticals, Liquids, Infusions, Pharmaceutical raw materials, Antibiotics, Quality Control and Quality Assurance, Pharmaceutical Engineering and Marketing (03rd August 1995-04th September 1995).

LIST OF PUBLICATIONS

1) Hossain, N., Shabnam, S., Emran, T., Zahid, Z. I., Alam, S., Bepari, A. K., **Sayedur Rahman, G. M.**, & Reza, H. M. (2025). Coenzyme Q10 alleviates oxidative stress, inflammation and fibrosis via activation of TGFβ1/TNF-α in FCA-Salt hypertensive rats. Archives of Biochemistry and Biophysics, 769, 110444. https://doi.org/10.1016/j.abb.2025.110444

2) Sarker, M., Chowdhury, N., Bristy, A. T., Emran, T., Karim, R., Ahmed, R., Shaki, M. M., Sharkar, S. M., **Sayedur Rahman, G. M.**, & Reza, H. M. (2024). Astaxanthin protects fludrocortisone acetate-induced cardiac injury by attenuating oxidative stress, fibrosis, and inflammation through TGF-β/Smad signaling pathway. Biomedicine & Pharmacotherapy, 181, 117703. https://doi.org/10.1016/j.biopha.2024.117703

3) Bepari, A. K., Takebayashi, H., Namme, J. N., **Rahman, G. M. S.**, & Reza, H. M. (2023). A computational study to target necroptosis via RIPK1 inhibition. Journal of Biomolecular Structure and Dynamics, 41(14), 6502–6517. https://doi.org/10.1080/07391102.2022.2108900

4) Hossain, M., Suchi, T. T., Samiha, F., Islam, M. M. M., Tully, F. A., Hasan, J., Rahman, M. A., Shill, M. C., Bepari, A. K., **Rahman, G. M. S.**, & Reza, H. M. (2023). Coenzyme Q10 ameliorates carbofuran induced hepatotoxicity and nephrotoxicity in wister rats. Heliyon, 9(2), e13727. https://doi.org/10.1016/j.heliyon.2023.e13727

5) Shill, M. C., Mohsin, M. N. A. B., Showdagor, U., Hasan, S. N., Zahid, M. Z. I., Khan, S. I., Hossain, M., **Rahman, G. M. S.**, & Reza, H. M. (2023). Microbial sensitivity of the common pathogens for UTIs are declining in diabetic patients compared to non-diabetic patients in Bangladesh: An institution-based retrospective study. Heliyon, 9(1), e12897. https://doi.org/10.1016/j.heliyon.2023.e12897

6) Rahman, M. A., Shuvo, A. A., Bepari, A. K., Hasan Apu, M., Shill, M. C., Hossain, M., Uddin, M., Islam, M. R., Bakshi, M. K., Hasan, J., Rahman, A., **Rahman, G. M. S.**, & Reza, H. M. (2022). Curcumin improves D-galactose and normal-aging associated memory impairment in mice: In vivo and in silico-based studies. PLOS ONE, 17(6), e0270123. https://doi.org/10.1371/journal.pone.0270123

7) Mostaid, M. S., Mumu, S. B., Haque, M. A., Sharmin, S., Jamiruddin, M. R., **Sayedur Rahman, G. M.**, & Reza, H. M. (2021). Elevated serum expression of p53 and association of TP53 codon 72 polymorphisms with risk of cervical cancer in Bangladeshi women. PLOS ONE, 16(12), e0261984. https://doi.org/10.1371/journal.pone.0261984

8) Rahman, M. A., Shanjana, Y., Tushar, M. I., Mahmud, T., **Rahman, G. M. S.**, Milan, Z. H., Sultana, T., Chowdhury, A. M. L. H., Bhuiyan, M. A., Islam, M. R., & Reza, H. M. (2021). Hematological abnormalities and comorbidities are associated with COVID-19 severity among hospitalized patients: Experience from Bangladesh. PLOS ONE, 16(7), e0255379. https://doi.org/10.1371/journal.pone.0255379

9) Emran, T., Chowdhury, N. I., Sarker, M., Bepari, A. K., Hossain, M., **Rahman, G. M. S.**, & Reza, H. M. (2021). L-carnitine protects cardiac damage by reducing oxidative stress and inflammatory response via inhibition of tumor necrosis factor-alpha and interleukin-1beta against isoproterenol-induced myocardial infarction. Biomedicine & Pharmacotherapy, 143, 112139. https://doi.org/10.1016/j.biopha.2021.112139

10) Shill, M. C., Bepari, A. K., Khan, M., Tasneem, Z., Ahmed, T., Hasan, M. A., Alam, M. J., Hossain, M., Rahman, M. A., Sharker, S. M., Shahriar, M., **Rahman, G. M. S.**, & Reza, H. M. (2021). Therapeutic potentials of Colocasia affinis leaf extract for the alleviation of streptozotocin-induced diabetes and diabetic complications: In vivo and in silico-based studies. Journal of Inflammation Research, 14, 443–459. https://doi.org/10.2147/JIR.S297348

11) Akash, S. Z., Lucky, F. Y., Hossain, M., Bepari, A. K., **Rahman, G. M. S.**, Reza, H. M., & Sharker, S. M. (2021). Remote temperature-responsive parafilm dermal patch for on-demand topical drug delivery. Micromachines, 12(8), 975. https://doi.org/10.3390/mi12080975

12) Mithun Saha, Diti Rani Saha, Tahamina Ulhosna, Shazid Md Sharker, Md Hasanuzzaman Shohag, Muhammad Saiful Islam, Swapan K. Ray, **G.M. Sayedur Rahman**, Hasan Mahmud Reza (2021). QbD based development of resveratrol-loaded mucoadhesive lecithin/chitosan nanoparticles for prolonged ocular drug delivery, Journal of Drug Delivery Science and Technology, Volume 63, 2021, 102480, ISSN 1773-2247. https://doi.org/10.1016/j.jddst.2021.102480.

13) Reza, H. M., Saleh, R., Jain, P., **Rahman, G. M. S.**, & Bepari, A. K. (2020). C-MAF expression in adult human ocular surface and its implication in pterygium pathogenesis. Reports of Biochemistry and Molecular Biology, 8(4), 419–423. https://doi.org/10.52547/biochem.8.4.419

14) Alam, Rafat & **Rahman, GM Sayedur** & Hasan, Nahid & Chowdhury, Abu Sayeed. (2020). A De-Novo drug design and ADMET study to design small molecule stabilizers targeting mutant (V210I) human prion protein against familial Creutzfeldt-Jakob disease (fCJD). International Journal of Computational Biology and Drug Design. 13. 21. 10.1504/IJCBDD.2020.105103

15) Nahar, K., Kabir, F., Islam, P., Rahman, M. M., Al Mamun, M. A., Faruk, M., Subhan, N., **Rahman, G. M. S.**, Reza, H. M., & Alam, M. A. (2018). Cardioprotective effect of Amaranthus tricolor extract in isoprenaline induced myocardial damage in ovariectomized rats. Biomedicine & Pharmacotherapy, 103, 1154–1162. https://doi.org/10.1016/j.biopha.2018.04.151

16) Md Ashraful Alam, Abu Taher Sagor, Nabila Tabassum, Anayt Ulla, Manik Chandra Shill, **Ghazi Muhammad Sayedur Rahman**, Hemayet Hossain, Hasan Mahmud Reza (2018). Caffeic acid rich Citrus macroptera peel powder supplementation prevented oxidative stress, fibrosis and

hepatic damage in CCl4 treated rats, Vol. 4, no. 1,pp. 1 – 10. https://doi.org/10.1186/s40816-018-0074-y

17) Sharker, S. M., Alam, M. A., Shill, M. C., **Rahman, G. M. S.**, & Reza, H. M. (2017). Functionalized hBN as targeted photothermal chemotherapy for complete eradication of cancer cells. International Journal of Pharmaceutics, 534(1–2), 206–212. https://doi.org/10.1016/j.ijpharm.2017.10.025

18) Ulla, A., Mohamed, M. K., Sikder, B., Rahman, A. T., Sumi, F. A., Hossain, M., Reza, H. M., **Rahman, G. M. S.**, & Alam, M. A. (2017). Coenzyme Q10 prevents oxidative stress and fibrosis in isoprenaline induced cardiac remodeling in aged rats. BMC Pharmacology and Toxicology, 18(1), 29. https://doi.org/10.1186/s40360-017-0136-7

19) Qasim R., **Rahman G. M.**, Hasan N., M. Hossain M. S. (2017) An *In-Silico* Pharmacophore Based Anti-viral drug development for hepatitis C virus, *International Journal of Pharmacological and Pharmaceutical Sciences*. Vol: 4, No: 2.

20) Rahman G. M., Das J. (2015) Modeling studies on the structural determinants for the DAG/ phorbol ester binding to C1 domain, *J. of Biomol. Struc. and Dynamics* 2015; v33 (1): 219-32. doi: 10.1080/07391102.2014.895679. Epub 2014 Mar 25.

21) Das J. and Rahman G. M., (2014) C1 domains: Structure and Ligand-binding Properties, *Chem. Rev*. 2014 Dec 24; 114(24):12108-31. doi: 10.1021/cr300481j. Epub 2014 Nov 6.

22) Rahman G. M., Sanker S., Lewin N., Prasad B.V.V., Blumberg P. M., Das J. (2013) Identification of Activator Binding Residues in the Second Cysteine-rich Regulatory Domain of Protein Kinase C Theta, *Biochem J*. 451(1): 33-44.

23) Das J., Pany S., Panchal S., Majhi A., Rahman G. M. (2011) Binding of isoxazole and pyrazole derivatives of curcumin with the activator binding domain of novel protein kinase C, *Bioorganic Medicinal Chemistry*, 19(21): 6196-202.

24) Gupta S. C., Kannappan R., Kim J., Rahman G. M., Francis S. K., Raveendran R., Nair M. S., Das J., Aggarwal B. B. (2011) Bharangin, a diterpenoid quinonemethide, abolishes constitutive and inducible nuclear factor-κB (NF-κB) activation by modifying p65 on cysteine 38 residue and reducing inhibitor of nuclear factor-κB α kinase activation, leading to suppression of NF-κB-regulated gene expression and sensitization of tumor cells to chemotherapeutic agents, *Molecular Pharmacology*, 80(5):769-81.

25) Majhi A., Rahman G. M., Panchal S., Das J. (2010) Binding of curcumin and its long chain derivatives to the activator binding domain of novel protein kinase C, *Bioorganic Medicinal Chemistry*, 8(4):1591-8.

26) Das J., Pany S., Rahman G. M., Slater S. J. (2009) PKC epsilon has an alcohol-binding site in its second cysteine-rich regulatory domain, *Biochemical Journal*, 421(3): 405-13

27) Ahmed F., Banoo R., Rahman G. M. S., Khan M. O. F. (2003) A Convenient Colorimetric Assay Method for Determination of Vitamin B_{12} in Pharmaceutical preparations, *Journal of medical Sciences*, Pakistan 3(2): 163-168. doi: 10.3923/jms.2003.163.168 https://scialert.net/abstract/?doi=jms.2003.163.168

28) Banoo R., Majumdar A. C., Rahman G. M. S., Ahmed F. (2003) Separation And Colorimetric Determination of Sulfadoxine from Combined Pharmaceutical Dosage Forms, *The Journal of Asiatic Society of Bangladesh-Science*, Bangladesh 29(2): 99-102.

29) Ahmed F., Rahman G. M. S., Das A.K. (2001) Anti Bacterial Activity of *Commelina Benghalensis*, *Khulna University Studies*, Bangladesh 3(2): 531-532.

30) Rahman G. M. S., Nazma H., Banoo R. (2001) Lack of Hepatoprotective Activity of the herb *Commelina benghalensis*, *The Journal of Asiatic Society of Bangladesh-Science*, Bangladesh 27(2): 245-249.

31) Haque N., Chowdhury S. A., Nutan M. T., Rahman G. M. S., Rahman K. M., Rashid M. A. (2000)Evaluation of antitumor activity ofsome medicinal plants of Bangladesh by potato disk bioa ssay. *Fitoterapia*. 2000 Sep; 71(5): 547-52.

32) Rahman G. M. S., Rashid M. A., Banoo R. (2000) Antitumor Activity of *Commelina Benghalensis, The Dhaka University Journal of Biological Sciences*, Bangladesh, 9(2): 165-169.

33) Rahman G. M. S., Nazma H., Rashid M. A. (1999) Cytotoxic Activity of *Commelina Benghalensis* using Brine Shrimp Lethality Bioassay*, Bangladesh Journal of Physiology and Pharmacology*, Bangladesh, 15(2): 62-63.

POSTERS AND PODIUM PRESENTATIONS IN CONFERENCES/ PROFESSIONAL MEETINGS

1) Shahriar Alam Shanto, Sohag Mollah, Anika Tasnim Rodela, Md. Ariful Islam, G. M. Sayedur Rahman, *In Silico* development of novel anti-Parkinson's drug candidate by targeting BCL2-associated athanogene 5 (BAG2), poster presentation at the 2nd Annual ICGNB 2022, NSU, Dhaka.

2) Farha-Al-Humaira, Faria Mahjabin Shupti, Md. Ariful Islam, G. M. Sayedur Rahman, *In Silico* drug design of the Cadherin-22 inhibitor as a potential treatment option for Cancer, poster presentation at the 2nd Annual ICGNB 2022, NSU, Dhaka.

3) Md. Abul Hasan Roni, Golam Mortuza, Ajoy Kumar, Suvro Biswas, Md. Abu Saleh, Shirmin Islam, G. M. Sayedur Rahman, Drug Discovery for Novel Coronavirus from natural compounds: Study with Artificial Intelligence and Molecular Dynamics, poster presentation at the 2nd Annual ICGNB 2022, NSU, Dhaka.

4) Ushashee Islam Paushee, Tasnim Tamanna, Rabiba Taher Mimra, G. M. Sayedur Rahman, Md. Ariful Islam, *In Silico* designing of a *de novo* REDD1 inhibitor for mitigating endothelial cell injury, poster presentation at the 2nd Annual ICGNB 2022, NSU, Dhaka.

5) Jannatun Nayem, Hasan Mahmud Reza, G. M. Sayedur Rahman, Asim Kumar Bepari. *In Silico* prediction of high risk pathogenic nsSNPs in the human ADAM10 gene, poster presentation at the 2nd Annual ICGNB 2022, NSU, Dhaka.

6) Sohag Mollah, Anika Tasnim Rodela, Shahriar Alam Shanto, G. M. Sayedur Rahman, Md. Ariful Islam, Computer aided drug design against asparagine endopeptidase (AEP) as a treatment option for Alzheimer's disease (AD), poster presentation at the 2nd Annual ICGNB 2022, NSU, Dhaka.

7) Rabiba Taher Mimra, Sohag Mollah, Shahriar Alam Shanto, Md. Ariful Islam, G. M. Sayedur Rahman, Ushashee Islam Poushee, Tasnim Tamanna, *In Silico* drug design against pyruvate kinase M2 (PKM2) as a treatment approach for cancer, poster presentation at the 2nd Annual ICGNB 2022, NSU, Dhaka.

8) Azmy Mohammad Sayed, Asim Kumar Bepari, G. M. Sayedur Rahman, A *de novo* drug design approach to identify a potentially bioavailable PIM1 inhibitor, poster presentation at the 2nd Annual ICGNB 2022, NSU, Dhaka.

9) Anika Tasnim Rodela, Nasim Chowdhury, Miftahul Jannat, Md. Ariful Islam, G. M. Sayedur Rahman. Arg10 showed potential drug like properties targeting Ubiquitin carboxyl-terminal hydrolase 16 (USP16) in prostate cancer: a computer aid drug design model, poster presentation at the 2nd Annual ICGNB 2022, NSU, Dhaka.

10) Md. Fahim Akter, G. M. Sayedur Rahman, Hasan Mahmud Reza, 3D Structure Determination Of The NOX-1 And NOX-3 Enzyme (NADPH Oxidase) As Targets For The Future Development of New Atherosclerotic Drugs, poster presentation at the 1st Annual ICGNB 2017, NSU, Dhaka.

11) Md. Golam Mortuza, Abdulla Al Hasan, G. M. Sayedur Rahman, A. T. M. Zafrul Azam, STRUCTURE BASED DESIGN OF INHIBITORS OF SRPK1, poster presentation at the 1st Annual ICGNB 2017, NSU, Dhaka.

12) Nabila Tazneen, G. M. Sayedur Rahman, Hasan Mahmud Reza, *In Silico* Inhibitor Designing Against GSK3A Protein; A New Approach In Alzheimer Disease Management, poster presentation at the 1st Annual ICGNB 2017, NSU, Dhaka.

13) Rabeya Binte Haqaue, G. M. Sayedur Rahman, *In Silico* Inhibitor Designing Against Γ-Secretase Enzyme; A New Approach In Alzheimer Disease Management, poster presentation at the 1st Annual ICGNB 2017, NSU, Dhaka.

14) Romasa Qasim, G. M. Sayedur Rahman, Nahid Hasan, Sazzad Hossain, *In Silico* DISCOVERY OF POTENTIAL INHIBITOR AGAINST NS5B POLYMERASE OF HEPATITIS C VIRUS, poster presentation at the 1st Annual ICGNB 2017, NSU, Dhaka.

15) Abu Sayeed Chowdhury, G. M. Sayedur Rahman, Nahid Hasan, Khondker Ayesha Akter, *In Silico* Approach For Pharmacophore Based Inhibitors Design Targeting FAM98A, FAM98B, FAM98C, poster presentation at the 1st Annual ICGNB 2017, NSU, Dhaka

16) Tasmia Momin, G. M. Sayedur Rahman, Hasan Mahmud Reza, 3D structure determination of the Non-structural proteins and endonuclease enzyme of Human Papilloma Virus-16 as the receptor for the development of new subtype specific Anti-papilloma drugs, poster presentation at the 1st Annual ICGNB 2017, NSU, Dhaka (Awarded: Best poster award, 2nd prize)

17) Momin Ul Haque, A. S. M. Zihad Hossain, G. M. Sayedur Rahman, Hasan Mahmud Reza , 3D structure determination of the Non-structural proteins of Zika Virus (Strain MR 766) as the receptor for the development of new Anti-Zika drugs, poster presentation at the 1st Annual ICGNB 2017, NSU, Dhaka

18) Rahman G. M., Sanker S., Lewin N., Prasad B.V.V., Blumberg P. M., Das J., Comparison of the activator binding residues of PKCθ and PKCδ, podium presentation at the 39th Annual MALTO Medicinal Chemistry-Pharmacognosy Meeting, Monroe, LA, USA (May 2012).

19) Rahman G. M., Sanker S., Lewin N., Prasad B.V.V., Blumberg P. M., Das J., Identification of the activator binding residues in protein kinase C theta (PKCθ) C1B domain, poster presented at the Experimental Biology Meeting 2012, San Diego, CA, USA (April 2012).

20) Rahman G. M., Das J., Identification of activator binding residues in PKCθ C1B subdomain: The effect of mutation in activator binding, podium presentation at the 38th Annual MALTO Medicinal Chemistry-Pharmacognosy Meeting, Houston, TX, USA (May 2011).

21) Rahman G. M., Das J., Identification of activator binding residues in C1B subdomain of Protein Kinase C theta (PKCθ), poster presented at the 37th Annual MALTO Medicinal Chemistry-Pharmacognosy Meeting, Ole Miss, MS, USA (May 2010).

22) Rahman G. M., Das J., Virtual molecular docking study of DAG and Phorbol ester-like compounds to explore the differential binding affinity of C1A and C1B subdomains of novel PKCs, poster presented at the 36th Annual MALTO Medicinal Chemistry-Pharmacognosy Meeting, Memphis, TN, USA (May 2009).

23) Guillory A. Pany S., Rahman G. M., Das J., Munc 13-1 C1 domain binds alcohol specifically, poster presented at the 36th Annual MALTO Medicinal Chemistry-Pharmacognosy Meeting, Memphis, TN, USA (May 2009).

24) Pany S., Rahman G. M., Guillory A., Das J., Protein Kinase C epsilon has an alcohol binding site in its regulatory domain, poster presented at the 35th Annual MALTO Medicinal Chemistry-Pharmacognosy Meeting, Little Rock, AR, USA (May 2008).

MEMBERSHIPS IN SOCIETY/ ASSOCIATIONS/ ORGANIZATIONS

- American Association of Cancer Research (AACR)
- The Smithsonian Institution
- American Association of Pharmaceutical Scientists (AAPS)
- American Society of Biochemistry and Molecular Biology (ASBMB)
- National Geographic Society (NGS)
- Bangladeshi American Pharmacists Association (BAPA)
- Asiatic Society of Bangladesh (ASB)
- Registered Pharmacist (Grade-A, #1633), Bangladesh Pharmacy Council (PCB), Bangladesh (a Commonwealth country)
- Bangladesh Pharmaceutical Society (BPS)
- Pharmacy Graduates Association of Bangladesh (PGA)

ASSITANTSHIPS/ SCHOLARSHIPS/ FELLOWSHIPS/AWARD

- Travel award from ASBMB for attending Experimental Biology 2012 conference at San Diego.
- Graduate Teaching Assistantship, University of Houston, College of Pharmacy (2007-2012) for PhD
- Graduate Assistant Teaching Fellowship, University of Houston (2007-2012) for Ph. D.
- Bangladesh National Science & Technology Fellowship (1999-2000) for M. Phil.
- Scholarship, University of Dhaka (1997-1998) for M. Phil.
- Bangladesh National Science & Technology Fellowship (1997-1998) for M. Pharm.
- Scholarship, University of Dhaka (1993) for B. Pharm. (Hons.).

- Bangladesh National Cadet Corps Scholarship (1990- 1991).
- Fazli Hossain Memorial Scholarship, Department of Pharmacy, University of Dhaka (1990- 1991) for achievement in B. Pharm. 1st year final exam.

PERSONAL

- ❖ Proficient in English, both oral and writing. Good communication and presentation skill and skilled in creative writing for scientific documentation.
- ❖ Capable of successfully working in a team environment and in a supervisory capacity.
- ❖ Interested in latest electronic gadgets and tech items, and traveling, collecting stamps, foreign coins and bills.

REFERENCES

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