

CURRICULUM VITAE of PROF. A T M ZAFRUL AZAM, PhD



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Work:

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CAREER OBJECTIVE

To pursue my career in Research and Teaching in Nucleic Acids Chemistry, Natural Products Chemistry, Medicinal Chemistry, Biomolecular Pharmacy, Biotechnology & Molecular Biology, Public Health.

PRESENT STATUS

Working as a **Professor** of the Department of Pharmaceutical Chemistry, Faculty of Pharmacy at the University of Dhaka, Dhaka 1000, Bangladesh.

ACADEMIC QUALIFICATIONS

JSPS BRIDGE Fellowship Program, 2014 (Japanese Government JSPS Fellowship, Japan)	Completed forty-five (45) days JSPS BRIDGE Fellowship Program from 21 st August 2014 to 04 th October 2014 at Dept. of Material and Life Chemistry, Kanagawa University, Yokohama, Japan. The Fellowship program was carried out with Professor Dr. Akira Ono, Department of Material and Life Chemistry, Faculty of Engineering, Kanagawa University, 3-27-1 Rokkakubashi, Kanagawa-ku, Yokohama, 221-8686, Japan. Tel.: +81-45-481-5661 (extn. 3887); Fax.: +81-45-481-7915; Email: akiraono@kanagawa-u.ac.jp
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Postdoctoral Fellowship, 2008	Completed two years JSPS post-doctoral research on “Synthesis of DNA-wires containing metal ions: towards developing metal-ion sensor and nano-
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(Japanese Government JSPS Fellowship, Japan) (2006 – 2008)	materials” from 26 th November 2006 to 25 th November 2008 at Dept. of Material and Life Chemistry, Kanagawa University, Yokohama, Japan. I carried out my post-doctoral research with Professor Dr. Akira Ono, Department of Material and Life Chemistry, Faculty of Engineering, Kanagawa University, 3-27-1 Rokkakubashi, Kanagawa-ku, Yokohama, 221-8686, Japan. Tel.: +81-45-481-5661 (extn. 3887); Fax.: +81-45-481-7915; Email: akiraono@kanagawa-u.ac.jp
Ph.D., 2006 (Japanese Government MEXT Scholarship, Monbukagakusho) (2003-2006)	Doctor of Philosophy (Ph.D.) course from the Department of Chemistry and Chemical Biology, Faculty of Engineering, Gunma University, Gunma, Japan.
Date of Graduation	23 March 2006
Major Field of Study	Nucleic Acid Chemistry (Triplex-Forming Oligonucleotides): Chemically synthesized modified nucleobases & intercalators and incorporated those into the oligonucleotide through phosphoramidite method.
Thesis Title	Synthesis and Properties of Modified α - β Chimeric OligoDNA as a Unique Class of Triplex-Forming Oligonucleotide
Supervisor	Dr. Kazuo Shinozuka, Professor, Department of Chemistry and Chemical Biology, Faculty of Engineering, Gunma University, 1-5-1, Tenjin-cho, Kiryu-shi, Gunma, 376-8515, Japan. Tel.: +81-277-30-1320; Fax: +81-277-30-1321; Email: sinozuka@chem-bio.gunma-u.ac.jp
Medium of Study	English
Short Course, 2002 (British Council Fellowship, DFID, UK)	Completed a short course on “International Health Economics” from 13 th May to 5 th July 2002 from the Center for Health Economics, University of York, York, United Kingdom.

M. Pharm., 1993	Obtained Master of Pharmacy (M. Pharm.) Degree from the Department of Pharmacy, University of Dhaka, Dhaka, Bangladesh in 1993 (examination held in 1996, due to session jam).
Result	First class 4th Position
Subject Studied	Advanced Pharmaceutical Analysis, Medicinal Chemistry & Pharmacology, Pharmaceutical Engineering, and Pharmacokinetics & Biopharmaceutics.
Thesis Title	Red antibiotic pigments from a <i>Penicillium</i> species.
Thesis Supervisor	Dr. A. Jabbar, Emeritus Professor, Department of Pharmacy, University of Dhaka, Dhaka-1000, Bangladesh. Phone: 880-2-500503; 880-2-9661920 ext. 4840; Fax: 880-2-8615583; Email: duregstr@bangla.net
Medium of Study	English
B. Pharm., 1992	Obtained Bachelor of Pharmacy (B. Pharm.) (Honours) course from the Department of Pharmacy, University of Dhaka, Dhaka, Bangladesh in 1992 (examination held in 1994, due to session jam).
Result	First class 2nd Position
Subject Studied	Inorganic & Organic Pharmacy, Physical Pharmacy, Pharmacognosy, Physiology, Pharmaceutical Microbiology, Mathematics & Statistics, Pharmacology, Pharmaceutics, Pharmaceutical Analysis & Quality Control, Medicinal Chemistry, Industrial Pharmacy, Pharmacokinetics & Biopharmaceutics, and Hospital Pharmacy.
Medium of Study	English
H.S.C., 1989	Passed Higher Secondary Certificate (H.S.C.) Examination from Notre Dame College, Dhaka, Bangladesh in 1989.
Result	First division with 81.9 % marks.
S.S.C., 1987	Passed Secondary School Certificate (S.S.C.) Examination from Shaheed Ramiz Uddin High School, Dhaka, Bangladesh in 1987.

Result	First division with 78.1% marks.
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EMPLOYMENT HISTORY

From	To	Position	Institution
10 Apr. 2013	To Date	Professor	Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Dhaka, Dhaka 1000, Bangladesh.
03 Feb. 2010	09 Apr. 2013	Associate Professor	Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Dhaka, Dhaka 1000, Bangladesh.
01 Nov. 2006	02 Feb. 2010	Assistant Professor	Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Dhaka, Dhaka 1000, Bangladesh
03 April 2006	31 Oct. 2006	Assistant Professor	Institute of Health Economics, University of Dhaka, Dhaka 1000, Bangladesh
04 Sept. 2000	02 April 2006	Lecturer	Institute of Health Economics, University of Dhaka, Dhaka 1000, Bangladesh.
25 Oct. 1998	03 Sept. 2000	Lecturer	Department of Pharmacy, University of Rajshahi, Rajshahi 6205, Bangladesh.
15 April 1997	21 Oct. 1998	Product Development Officer	Beximco Pharmaceuticals Ltd., Dhaka, Bangladesh.
01 Sept. 1996	13 Apr. 1997	Production Pharmacist	Al-Amin Laboratories Ltd., Dhaka, Bangladesh.

ADJUNCT FACULTY

Working as a **Professor** for the Department of Pharmaceutical Sciences, **North South University**, Dhaka, Bangladesh since 2010.

ADMINISTRATIVE POSITION

From	To	Position	Institution
26 May 2010	05 Oct 2017	Student Advisor	Faculty of Pharmacy, University of Dhaka, Dhaka 1000, Bangladesh.

RESEARCH PROJECTS

1. Working on a two-year research project funded by Ministry of Health and Family Welfare, Medical Education and Family Welfare Division, Bangladesh Secretariate, Dhaka-1000, Bangladesh, as a Co-Investigator entitled “*Economic Analysis of Modernization of Storage and Dispensing Mechanism of Medicine at Primary and Secondary Level Healthcare Facilities in Bangladesh*”. 2023-2024.
2. Working on a research project funded by University Grants Commission (UGC) of Bangladesh through University of Dhaka, Dhaka-1000, Bangladesh, as a Principal Investigator (PI) entitled “*Exploration of Ethnopharmacological Potential and Phytochemical Analysis of Four Medicinal Plants of Bangladesh*”. 2023
3. Working on a research project funded by University Grants Commission (UGC) of Bangladesh through University of Dhaka, Dhaka-1000, Bangladesh, as a Principal Investigator (PI) entitled “*Phytochemical and Pharmacological Investigation of Two Medicinal Plants of Bangladesh*”. 2022
4. Working on a research project funded by Centennial Research Grant (CRG) of University of Dhaka, Dhaka-1000, Bangladesh, as a Co-Principal Investigator (Co-PI) entitled “*Investigation of Phytochemical Constituents and Biological Activities of Three Medicinal Plants of Bangladesh*”. 2021
5. Completed a project by Shushilan, an NGO, as a consultant entitled “*Survey on Patient awareness of rational use of antibiotics and its resistance in Bangladesh*” funded by Health Economics Unit

(HEU), Ministry of Health and Family Welfare (MoH&FW), Government of the People's Republic of Bangladesh. 2020

6. Worked as an External Research Collaborator with Professor Kasper Althoefer of Queen Mary University of London (QMUL), UK, in a project entitled "*Verified as Safe: Using Radiofrequency Spectroscopic Authentication Technique to tackle Medicines Counterfeiting in Bangladesh*" funded by EPSRC Global Challenges Internal Competition, QMUL, London, UK. 2017
 7. Completed one-year project as a Co-Principal Investigator entitled "*Bioprocess Development for the Production of Microbial Proteases as Novel Fibrinolytic and Thrombolytic Agents*" funded by Ministry of Science and Information & Communication Technology, Government of the People's Republic of Bangladesh. 2016
 8. Completed two-year project as a Co-Principal Investigator entitled "*Synthesis of Important Active Pharmaceutical Ingredients (APIs) Containing Benzimidazole Ring*" funded by Ministry of Science and Information & Communication Technology, Government of The People's Republic of Bangladesh. 2014
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TRAINING

1. Attended a one-month training course on "**Costing and Economic Evaluation**" organized by Institute of Health Economics, University of Dhaka from 7 January 2001 to 7 February 2001.
 2. Attended a Five-day training course on "**Economic Evaluation of Reproductive Health Program**" organized by the Institute of Health Economics, University of Dhaka in collaboration with Population Council, Bangladesh from 20 January 2002 to 24 January 2002.
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PUBLICATIONS

DISSERTATIONS

1. A.T.M. Zafrul Azam. Synthesis and Properties of Modified α - β Chimeric OligoDNA as a Unique Class of Triplex-Forming Oligonucleotide. PhD Dissertation, Gunma University, Gunma, Japan, March, 2006.

2. A.T.M. Zafrul Azam. Red antibiotic pigments from a *Penicillium* species. M.Pharm. Dissertation, University of Dhaka, Dhaka, Bangladesh, 1997.

BOOKS / BOOK CHAPTERS

1. **Pharmacy Education and Research in the University of Dhaka** (Centennial Special Book). 2022. Edited by Sitesh Chandra Bachar, Faculty of Pharmacy, University of Dhaka, ISBN: 978-984-35-2653-. **In: Cpt-6:** Social and state recognition of the profession of pharmacy. Pp 137-164 by Md. Shah Amran and A.T.M. Zafrul Azam.
 2. **Design of Nanostructures for Theranostics Applications**. 1st Edition. 2018. edited by Alexandru Mihai Grumezescu. Elsevier. ISBN-13: 978-0128136690; ISBN-10: 0128136693. **In: Cpt- 9:** Small RNA-mediated prevention, diagnosis and therapies of cancer. Pp 341-436 by Abdullah Al Hasan and A T M Zafrul Azam. (<https://doi.org/10.1016/C2016-0-04059-7>)
 3. A.T.M. Zafrul Azam. **Modified alpha-beta Chimeric OligoDNA as a Unique Class of TFO: A Study on Synthesis and Properties of alpha-beta Chimeric OligoDNA**. ISBN: 978-3-8465-3246-1, LAP Lambert Academic Publishing, GmbH & Co. KG, Germany, October 2011.
 4. Md. Hamiduzzaman and A.T.M. Zafrul Azam. **Phytochemical Screening of Gomphrena globosa (L), Family: Amaranthaceae**. ISBN: 978-3-659-42335-2, LAP Lambert Academic Publishing, GmbH & Co. KG, Germany, July 2013.
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JOURNAL ARTICLES

1. Afsin Malika, Faria Mannan Mithia, Sania Ashrafia, Muhammad Abdullah Al-Mansurb, Monira Ahsana, Choudhury Mahmood Hasana and A.T.M. Zafrul Azam. Exploration and evaluation of antioxidant activity in isolated phenolics from *Jasminum scandens* (retz) vahl. *Natural Product Research*, 1–5. (Published online on 03 April 2024). (<https://doi.org/10.1080/14786419.2024.2334883>)
2. Paromita Paul, Abu Saleh Ahmed, Abdullah Al Hasan, Fatema-Tuz-Zohora and A. T. M. Zafrul Azam. Impact of COVID-19 Infection in Kidney Transplant Patients: A Review. *Advances in Pharmacology and Clinical Trials*, **9(3)**, 00023, 2024. (<https://doi.org/10.23880/apct-16000237>)
3. T. M. A. Mukit, Sania Ashrafi, Monira Ahsan and A.T.M. Zafrul Azam. Chemical and biological profiling of *Derris scandens* (roxb.) Benth. *Bangladesh Journal of Botany*, **53(2)**, 227-233, 2024. (<https://doi.org/10.3329/bjb.v53i2.74032>)

4. Nisrat Jahan, Fatema-Tuz-Zohora, Khozirah Shaari, Sk Nazrul Islam, A.T.M. Zafrul Azam and Monira Ahsan. Chemical and Biological Profiling of Three Ferulic Acids Alkyl Esters Isolated from *Jatropha Pandurifolia* (Family: Euphorbiaceae) Stem Bark. *Biomedical and Pharmacology Journal*. **16(2)**, 817-826, 2023. (<https://dx.doi.org/10.13005/bpj/2664>)
5. Nisrat Jahan, Md. Abdur Rahim, Sheikh Nazrul Islam, A. T. M. Zafrul Azam and Monira Ahsan. Antioxidative, thrombolytic and cytotoxic potentials of *Jatropha pandurifolia* stem bark and *Syzygium reticulatum* leaf. *Dhaka University Journal of Pharmaceutical Sciences*. **22(1)**: 97-103, 2023. (<https://doi.org/10.3329/dujps.v22i1.67100>)
6. Fatema Tuz Zohora, A.T.M. Zafrul Azam, Sinthya Ahmed, Khondaker Miraz Rahman, Mohammad A. Halim Md. Rafi Anwar, Md. Hossain Sohrab, Fatema Tabassum, Choudhury Mahmood Hasan and Monira Ahsan. Isolation and *in silico* prediction of potential drug-like compounds with a new dimeric prenylated quinolone alkaloid from *Zanthoxylum rhetsa* (Roxb.) root extracts targeted against SARS-CoV-2 (Mpro). *Molecules*, **27(23)**: 8191, 2022. (<https://doi.org/10.3390/molecules27238191>)
7. A.T.M. Zafrul Azam, Itaru Okamoto and Akira Ono. Synthesis of a novel nucleotide unit containing cytosine analog bearing phosphodiester function and formation of silver(I)-mediated DNA duplex. *Nucleosides, Nucleotides & Nucleic Acids*, **41(11)**: 1141-1161, 2022. (<https://doi.org/10.1080/15257770.2022.2100903>)
8. Md. Sohel Rana, Md. Maruf Hasan, Md. Eshak Enan, Fatema-Tuz-Zohora, A.T.M. Zafrul Azam. Overview of an Emerging Coronavirus Infection, COVID-19: Current Status of Vaccine Development and Therapeutics. *Pharmacology & Pharmacy*, **12(1)**: 25-41, 2021. (<https://doi.org/10.4236/pp.2021.121003>)
9. Faria Mannan Mithi, Monira Ahsan, Choudhury Mahmood Hasan, A.T.M Zafrul Azam. Isolation and characterization of secondary metabolites and evaluation of biological activity of *hygrophila erecta* (burm.f.) hochr. *British Journal of Medical and Health Research*. **7(11)**: 1-10, 2020.
10. Md. Asad uz Zaman, Taqiyah Akhtar, A.T. M. Zafrul Azam, Md. Arafat Al Mamun, Md. Mozammel Hoq and Md. Abdul Mazid. Thrombolytic activity of alkaline protease purified from a mutant strain *Bacillus licheniformis* MZK05M9. *Bangladesh Pharmaceutical Journal*. **21(1)**: 63-70, 2018.
11. Abdullah Al Hasan, Sayema Khanum and A.T.M Zafrul Azam. Zika virus: an overview of current understanding. *European Journal of Biomedical and Pharmaceutical Sciences*. **3(6)**: 178-187, 2016.

12. Tahmid Faisal, Monira Ahsan, Jakir Ahmed Choudhury and A.T.M. Zafrul Azam. Phytochemical and biological investigations of *Eurya acuminata* (Theaceae). *Dhaka University Journal of Pharmaceutical Sciences*. **15(2)**: 151-154, 2016.
13. Md. Nazmul Hasan, Monira Ahsan, Choudhury Mahmood Hasan and A. T. M. Zafrul Azam. 2,5-Dihydroxy-3-heptadecyl-1,4-benzoquinone and stigmasterol from *Heliotropium indicum* L. *Dhaka University Journal of Pharmaceutical Sciences*. **15(1)**: 113-115, 2016.
14. Somaia Haque Chadni, Abdullah Al Hasan and A.T.M. Zafrul Azam. Antimicrobial, cytotoxic, thrombolytic and antioxidant activities of *Syzygium fruticosum* (Roxb.) DC. *Bangladesh Pharmaceutical Journal*, **17(1)**: 55-58, 2014.
15. Md. Gias Uddin and A.T.M. Zafrul Azam. A novel oligoDNA probe carrying non-nucleosidic silylated pyrene derivatives: synthesis and excimer forming ability. *American Journal of Biochemistry and Molecular Biology*, **3(1)**: 175-181, 2013.
16. Sharmin Asad, Md. Hamiduzzaman, A.T.M. Zafrul Azam, Monira Ahsan and Mohammad Mehedi Masud: Lupeol, oleanic acid & steroids from *Sonneratia alba* J.E. Sm (Sonneratiaceae) and antioxidant, antibacterial & cytotoxic activities of its extracts. *International Journal of Advanced Research in Pharmaceutical & Bio Science*. **3(4)**: 1-10, 2013.
17. A.T.M. Zafrul Azam, Fatema Moni, Md. Hamiduzzaman, Mohammad Mehedi Masud, Choudhury Mahmood Hasan. Two cinnamoyl triterpenes and steroids from *Crotalaria incana* (L.), Family: Fabaceae. *Research Journal of Phytochemistry*. **7(1)**: 1-9, 2013.
18. Nipa Chowdhury, Abdullah Al Hasan, Fakir Shahidullah Tareq, Monira Ahsan and A. T. M. Zafrul Azam. 4-Hydroxy-*trans*-cinnamate derivatives and triterpene from *Barleria cristata* (Acanthaceae). *Dhaka University Journal of Pharmaceutical Sciences*. **12(2)**: 173-175, 2013.
19. Fouzia Siraji, A.T.M. Zafrul Azam, Md. Gias Uddin, Rehana Begum, Md. Shah Amran, Jamal Nazrul Islam and Md. Amjad Hossain. *In vitro* effects of copper (II) and chromium (III) on the protein binding of metronidazole and mebendazole in aqueous media. *International Journal of Research and Reviews in Pharmacy and Applied Sciences*, **2(5)**: 916-929, 2012.
20. Abdullah A. Hasan, A.T.M. Zafrul Azam, Mohammad R. Haque, Choudhury M. Hasan. Triterpenoids and steroids isolated from *Glochidion multiloculare*. *Pak. J. Sci. Ind. Res. Ser. A: Phys. Sci*, **55(3)**: 163-168, 2012.
21. Md. Gias Uddin and A.T.M. Zafrul Azam. Sequence discriminating ability of oligoDNA bearing silylated pyrene derivatives through excimer formation. *Asian Journal of Biological Sciences*, **5(5)**: 257-262, 2012.

22. Sheikh Tasnim Jahan, Sams Mohammad Anowar Sadat, Muhammad Rashedul Islam, A.T.M. Zafrul Azam and Jakir Ahmed Chowdhury. Effect of various electrolytes on theophylline loaded sodium alginate beads prepared by ionic cross linking technique. *Dhaka University Journal of Pharmaceutical Sciences*. **11(2)**: 181-189, 2012.
23. A.T.M. Zafrul Azam, Abdullah Al Hasan, Md. Gias Uddin, Mohammad Mehedi Masud, Choudhury Mahmood Hasan. Antimicrobial, antioxidant and cytotoxic activities of *Glochidion multiloculare* (Roxb. ex Willd.) Müll. Arg. (Fam. Euphorbiaceae). *Dhaka University Journal of Pharmaceutical Sciences*. **11(2)**: 117-120, 2012.
24. Md. Hamiduzzaman and A.T.M. Zafrul Azam. Antimicrobial, antioxidant and cytotoxic activities of *Gomphrena globosa* (L.). *Bangladesh Pharmaceutical Journal*, **15(2)**: 183-185, 2012.
25. Md. Hamiduzzaman, Choudhury Mahmood Hasan and A.T.M. Zafrul Azam. Isochavicine acid and steroids from *Gomphrena globosa* (L.). *Dhaka University Journal of Pharmaceutical Sciences*, **11(1)**: 79-81, 2012.
26. F. Siraji, A.T.M. Z. Azam, M. S. Amran, J. N. Islam, F. M. Amjad, and M. A. Hossain. In vitro interaction of metronidazole and mebendazole with copper (II) and chromium (III) in aqueous media. *Journal of Scientific Research*, **4(1)**: 173-181, 2012.
27. Tomohisa Moriguchi, A.T.M. Zafrul Azam, and Kazuo Shinozuka. Stabilizing effect of propionic acid derivative of anthraquinone-polyamine conjugate incorporated into alpha-beta chimeric oligonucleotides on the alternate-stranded triple helix. *Bioconjugate Chemistry* (American Chemical Society), **22 (6)**: 1039–1045, 2011.
28. R. Al-Mamun, A. Hamid, M.K. Islam, J.A. Chowdhury and ATM Zafrul Azam. Lipid lowering activity and free radical scavenging effect of *Cinnamomum tamala* (Fam: Lauraceae). *International Journal of Natural Sciences*, **1(4)**: 93-96, 2011.
29. Abdullah Al Hasan, Choudhury Mahmud Hasan, A. T. M. Zafrul Azam. Antimicrobial, cytotoxic and antioxidant activities of *Desmodium heterocarpon*. *Bangladesh Pharmaceutical Journal*, **14(1)**: 49-52, 2011.
30. Abdullah Al Hasan and A.T.M. Zafrul Azam. In vitro antibacterial, cytotoxic and free radical scavenging activities of an *Aspergillus* species. *Bangladesh Pharmaceutical Journal*, **13(2)**: 47-50, 2010.
31. Mohammad Abdus Salam, Mohammad Abdullahil Baki, A T M Zafrul Azam, Md. Shah Amran, Farhad Mohammad Amjad, Begum Rokaya and Md. Amjad Hossain. In vitro and in vivo effects of glipizide and gliclazide on the protein binding, plasma concentration and serum glucose, cholesterol and creatinine levels of ibuprofen. *Journal Pharmacology and Toxicology*, **4(8)**: 307-313, 2009

32. Mohammad Mohiuddin, A.T.M. Zafrul Azam, Md. Shah Amran and Md. Amjad Hossain. *In vitro* study on the interaction of caffeine with gliclazide and metformin in the aqueous media. *Journal Pharmacology and Toxicology*, **4(5)**: 194-204, 2009.
33. Farazi Binti Ferdous and A.T.M. Zafrul Azam. Utilization of child health care services in Thana Health Complex of Bangladesh: A study of Keraniganj. *Asian Journal of Epidemiology*, **2(2)**: 20-32, 2009.
34. Mohammad Mohiuddin, A.T.M. Zafrul Azam, Md. Shah Amran and Md. Amjad Hossain. *In vitro* effects of gliclazide and metformin on the protein binding of caffeine in the aqueous media. *Journal of Biological Sciences*, **9(5)**: 476-481, 2009.
35. Mohammad Mohiuddin, A.T.M. Zafrul Azam, Md. Shah Amran and Md. Amjad Hossain. *In vivo* effects of gliclazide and metformin on the plasma concentration of caffeine in healthy rats. *Pakistan Journal of Biological Sciences*, **12(9)**: 734-737, 2009.
36. A.T.M. Zafrul Azam, Itaru Okamoto and Akira Ono. Synthesis and properties of DNA duplexes containing cytosine analogs carrying phosphodiester functions. *Nucleic Acids Symp. Ser.* **51**: 153-154, 2007.
37. A.T.M. Zafrul Azam, Tomohisa Moriguchi and Kazuo Shinozuka. Modified α - β chimeric oligoDNA bearing a multi-conjugate of 2,2-bis(hydroxymethyl)propionic acid-anthraquinone-polyamine exhibited improved and stereo-nonspecific triplex-forming ability. *Chem. Commun.* (Royal Society of Chemistry, UK). 335-337, 2006.
38. Md. Harun-Or-Rashid, Nurul Karim, M.A. Gafur, Md. Golam Sadik, A.S.M. Anisuzzaman, Noaki Sugimoto and A.T.M. Zafrul Azam. Isolation and biological activities of chemical constituent from the stems of *Ipomoea turpethum*. *Pakistan Journal of Biological Sciences*, **9(12)**: 2261-2266, 2006.
39. Tomohisa Moriguchi, A.T.M. Zafrul Azam and Kazuo Shinozuka. Synthesis and alternate-stranded triple helix forming ability of novel anthraquinone modified alpha-beta chimeric DNA. *Nucleic Acids Symp. Ser.* **49**, 7-8, 2005.
40. A.T.M. Zafrul Azam, Minoru Hasegawa, Tomohisa Moriguchi and Kazuo Shinozuka. Synthesis and alternate-stranded triplex forming ability of novel α - β chimeric oligonucleotides bearing an intercalator-conjugated nucleobase. *Nucleic Acids Symp. Ser.* **48**, 207-208, 2004.
41. A.T.M. Zafrul Azam, Minoru Hasegawa, Tomohisa Moriguchi and Kazuo Shinozuka. α - β Chimeric oligo-DNA bearing intercalator-conjugated nucleobase inside the linker sequence remarkably improves thermal stability of an alternate-stranded triple helix. *Bioorganic & Medicinal Chemistry Letters*, **14**: 5747-5750, 2004.

42. Md. Amjad Hossain, A.T.M. Zafrul Azam, Md. Rahatuzzaman, Zabun Nahar and Abul Hasnat. A study on the dietary feature and disease patterns of infants and children treated in some hospitals in Dhaka city and Narayangonj, Bangladesh. *Dhaka University Journal of Pharmaceutical Sciences*. **2**: 19-23, 2003.
43. Arif Elahi Mahmud, A.T.M. Zafrul Azam, Md. Shah Amran and Md. Amjad Hossain. *In vitro* interaction of nifedipine with atenolol in the aqueous medium. *Bangladesh Journal of Life Sciences*, **15(2)**:113-118, 2003.
44. Arif Elahi Mahmud, A.T.M. Zafrul Azam, Md. Shah Amran and Md. Amjad Hossain. Evaluation of *in vitro* interaction of nifedipine with captopril in the aqueous medium. *Dhaka University Journal of Pharmaceutical Sciences*, **10(1)**: 79-84, 2001.
45. Md. Aziz Abdur Rahman, A.T.M. Zafrul Azam and M.A. Gafur. Brine Shrimp Lethality Bioassay with Extracts and Two Flavonoids from *Clerodendrum indicum* Linn. *Pakistan Journal of Pharmacology*., **17(1 & 2)**: 1-6, 2000.
46. Md. Aziz Abdur Rahman, A.T.M. Zafrul Azam and M. A. Gafur. *In vitro* Antibacterial Principles of Two Flavonoids and Extracts from *Clerodendrum indicum* Linn. *Pakistan Journal of Biological Sciences*, **3(10)**: 1769-1771, 2000.
47. A. H. M. Rashidul Bari, A.T.M. Zafrul Azam, Md. Shah Amran and Md. Amjad Hossain. *In vivo* effects of ibuprofen and naproxen on the plasma concentration of diltiazem in rabbits. *Pakistan Journal of Biological Sciences*, **3(4)**: 555-557, 2000.
48. Md. Aziz Abdur Rahman, A.T.M. Zafrul Azam, Naoki Sugimoto and M.A. Gafur. Two Flavonoids, Pectolinarigenin and Hispidulin, from the stem and root of *Clerodendrum indicum* Linn. (Verbenaceae). *Journal of Bio-Sci.*, **8**: 27-30, 2000.
49. A. S. M. Anisuzzaman, A.T.M. Zafrul Azam, M Helal U. Biswas and M. A. Gafur. Brine Shrimp Lethality Bioassay of Ethyl Acetate Extract and Kojic Acid from *Aspergillus fumigatus*. *Bangladesh Journal of Genetics and Biotechnology*, **1(2)**: 123-126, 2000.
50. Md. Aziz Abdur Rahman, A.T.M. Zafrul Azam, Jahan Ara Khanam and M.A. Gafur. *In vivo* Cytostatic activity of a Flavonoid, Pectolinarigenin, isolated from *Clerodendrum indicum* Linn. on Ehrlich Ascite Carcinoma (EAC) cell to mice. *Journal of the Asiatic Society of Bangladesh, Science*, **26(2)**: 289-291, 2000.
51. Arif Elahi Mahmud, A.T.M. Zafrul Azam, Md. Shah Amran and Md. Amjad Hossain. Evaluation of *in vitro* interaction of nifedipine with copper (II) in aqueous medium. *Journal of the Asiatic Society of Bangladesh, Science*, **26(1)**: 53-58, 2000.

52. A.T.M. Zafrul Azam and A. Jabbar. Antibacterial and cytotoxic activities of red antibiotic pigments from a *Penicillium* strain. *Journal of the Asiatic Society of Bangladesh, Science*, **25(2)**: 267-274, 1999.
 53. A.T.M. Zafrul Azam and A. Jabbar. Toxicological studies of red antibiotic pigments from a *Penicillium* strain on long Evan's rats. *Journal of Bio-Sci.*, **7**: 103-109, 1999.
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SUBMITTED JOURNAL ARTICLES`

1. Md. Sohanur Rahaman Sohan, A.T.M Zafrul Azam, Fatema-Tuz-Zohora, Susmita Das, Mohiuddin Ahmed Bhuiyan, Muhammad Abdullah Al-Mansur and Monira Ahsan. Phytochemical Investigation and In Vitro Bioactivity Analysis of *Cynometra ramiflora*. *Journal of Pharmacological and Pharmaceutical Research*. 2024. SUBMITTED.
2. Sadia Afreen Chowdhurya,d, Rajib Das, Md. Ariful Haq, A.T.M. Zafrul Azam, Choudhury Mahmood Hasan, Monira Ahsan. Isolation of Methyl Caffeate and Flacourtin from *Flacourtia jangomas* and Comprehensive *In-vitro* and *In-vivo* Pharmacological Evaluation. *Helion*. 2024. SUBMITTED.
3. Tamanna Sultana, Md. Fazle Rabbi, Sania Ashrafi, Susmita Das, Saima Mollick, Md. Sakhawat Hossain, Tasnuva Sharmin, Monira Ahsan and A.T.M Zafrul Azam. Isolation of Flavonoids and a Triterpene Ester with Potential Bioactivity from *Ludwigia octovalvis* (Jacq.) P.H. Raven (Onagraceae) Leaves. *Dhaka University Journal of Pharmaceutical Sciences*. 2024. SUBMITTED.
4. Susmita Das, A.T.M Zafrul Azam, Sania Ashrafi, Tamanna Sultana, Rajib Das, Tanvir Mahtab Uddin, Saima Mollick, and Monira Ahsan. Characterization of Bioactive Compounds and Bioactivities in *Avicennia officinalis* L. (Acanthaceae): An *In Vitro* and *In Silico* Study. *Health Science Reports*. 2024. SUBMITTED.

SUPERVISION OF THESIS

Doctor of Philosophy (PhD), Ongoing (As Co-Supervisor)

1. Sadia Afreen Chowdhury, “*Study on the Chemical Constituents and Pharmacological Activities of Flacourtia jangomas and Hevea brasiliensis, Collected from Hilly Areas of Bangladesh*”.
2. Nisrat Jahan, “*Chemical and Biological Profiling of Jatropa pandurifolia and Syzygium reticulatum*”.

3. Afifa Parvin Shanta, “Investigation of Phytochemical Constituents and Biological Properties of Two Medicinal Mangrove Plants Collected from Sundarbans”.
4. Kamrun Nahar, “An investigation of chemical constituents and pharmacological activities of *Utricularia resettifolia* and *Utricularia geminiscapa* of Bangladesh”.

Master of Pharmacy (M.Pharm), Completed

1. M.Pharm (2007-2008): Chemical and biological investigations of *Glochidion multiloculare* (Roxb. ex Willd.) Muell.-Arg. and *Desmodium heterocarpon* (L.) DC.
2. M.Pharm (2008-2009): Chemical and Biological Investigations of *Crotalaria incana* (L.).
3. M.Pharm (2009-2010): Chemical and Biological Investigations of *Gomphrena globosa* (L.).
4. M.Pharm (2010-2011): Chemical and Biological Investigations of *Barleria cristata* (L.).
5. M.Pharm (2011-2012): Chemical and Biological Investigations of *Syzygium fruticosum* (Roxb.) DC.
6. M.Pharm. (2012-13): Chemical and Biological Investigations of *Heliotropium indicum* L.
7. M.Pharm. (2013-14): Chemical and Biological Investigation of *Eurya acuminata*.
8. M.Pharm. (2015-16): Chemical and Biological Investigation of *Jasminum scandens* (Retz) Vahl
9. M.Pharm. (2016-17): Chemical and Biological Investigation of *Hygrophila erecta* (Brum.f.) Hochr. and *Jasminum scandens*.
10. M.Pharm. (2017-2018): Chemical and biological investigation of *Castanopsis tribuloides* (SM) A.DC and *Hygrophilla erecta* (Burm.f.) Hochr.
11. M.Pharm. (2018-2019): Chemical and biological investigation of *Derris scandens*.
12. M.Pharm. (2018-2019): Chemical and Biological Investigations of *Ludwigia octovalvis* (Jacq.) P.H.Raven., (Onagraceae)
13. M.Pharm. (2019-2020): Phytochemical and Biological Investigation on *Pajanelia longifolia*.
14. M.Pharm. (2020-2021): Phytochemical and Biological Investigation on *Ludwigia octovalvis* (Jacq.) P.H. Raven.
15. M.Pharm. (2021-2022): Phytochemical isolation and Biological Investigation of *Tabebuia rosea*.

CONFERENCE PAPERS

1. Abul Hasnat, A.T.M. Zafrul Azam and Maizbha Uddin Ahmed. Translating Pharmacogenetics into Personalized Medicine. International Symposium of Bangladesh JSPS Alumni Association on “Science for Society” at Bangladesh Agricultural Research Council (BARC), Dhaka, Bangladesh, 24 & 25 February, 2012.

2. A.T.M. Zafrul Azam, Tomohisa Moriguchi and Kazuo Shinozuka. Synthesis and sequence specific alternate-stranded triplex forming ability of novel α - β chimeric oligoDNA bearing a multi-conjugate of 2,2-bis(hydroxymethyl)propionic acid-anthraquinone-polyamine. The 15th Antisense Symposium at Kiryu, Gunma, Japan, 24-25 November, 2005.
 3. A.T.M. Zafrul Azam, Tomohisa Moriguchi and Kazuo Shinozuka. Synthesis and alternate-stranded triplex forming ability of novel α - β chimeric oligoDNA bearing an anthraquinone conjugate with 2,2-bis(hydroxymethyl) propionic acid. The 85th Annual Spring Meeting of the Chemical Society of Japan at Kanagawa University, Kanagawa, Japan, 26-29 March, 2005.
 4. A.T.M. Zafrul Azam, Minoru Hasegawa, Tomohisa Moriguchi and Kazuo Shinozuka. α - β chimeric oligo-DNA bearing intercalator-conjugated nucleobase inside the linker sequence remarkably improves thermal stability of an alternate-stranded triple helix. The First Gunma International Symposium on Chemistry at Gunma University, Gunma, Japan, 6 November, 2004.
 5. A.T.M. Zafrul Azam and Muniruddin Ahmed. Effects of regulations on Pharmaceutical Market in Bangladesh. Bangladesh Health Economics Conference at Hotel Sheraton, Dhaka, Bangladesh on 4-5 July 2001.
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SEMINAR/SYMPOSIUM/CONFERENCE

1. Attended “The 13th International Seminar” On “Science and Technology for the 4th Industrial Revolution (4IR)” jointly organized by Bangladesh JSPS Alumni Association (BJSPSAA) and Japan Society for the Promotion of Sciences (JSPS) at Sylhet Agricultural University, Sylhet, Bangladesh held on 19 March 2022.
2. Attended “44th congress of Heterocyclic Chemistry” at Sapporo, Hokkaido, Japan held on 10-12 September 2014.
3. Attended and delivered oral presentation at “International Symposium on Science for Society” at Bangladesh Agricultural Research Council (BARC), Dhaka, Bangladesh held on 24 & 25 February 2012, entitled “Translating Pharmacogenetics into Personalized Medicine” by Abul Hasnat, A.T.M. Zafrul Azam and Maizbha Uddin Ahmed.
4. Attended at ‘Respiratory Masterclass’ in Kuala Lumpur, Malaysia on 01 October 2011 jointly organized by GSK and Bangladesh Lung Foundation.
5. Attended at the First Nepalese National Seminar on “Plants in Diabetes: Prospects & Challenges” in Kathmandu, Nepal on 06-08 June 2009 jointly organized by ANRAP, Bangladesh and NIHS, Nepal.

6. Attended and poster presentation at the Fifth International Symposium on Nucleic Acids Chemistry at University of Tokyo, Tokyo, Japan on 20-22 November, 2007, entitled “Synthesis and properties of DNA duplexes containing cytosine analogs carrying phosphodiester functions” by A. T. M. Zafrul Azam, Itaru Okamoto and Akira Ono.
7. Attended at the 87th Annual Spring Meeting of the Chemical Society of Japan on 25-28 March 2007 at Kansai University, Osaka , Japan.
8. Attended and delivered oral presentation at the 15th Antisense Symposium at Kiryu, Gunma, Japan on 24-25 November, 2005, entitled “Synthesis and sequence specific alternate-stranded triplex forming ability of novel α - β chimeric oligoDNA bearing a multi-conjugate of 2,2-bis(hydroxymethyl)propionic acid-anthraquinone-polyamine” by A. T. M. Zafrul Azam, Tomohisa Moriguchi and Kazuo Shinozuka.
9. Attended and delivered oral presentation at the 4th International Symposium on Nucleic Acid Chemistry (32nd Symposium on Nucleic Acid Chemistry) at Kyushu University, Fukuoka, Japan on 20-22 September 2005, entitled “Synthesis and alternate-stranded triple helix forming ability of novel anthraquinone modified alpha-beta chimeric DNA” by Tomohisa Moriguchi, A. T. M. Zafrul Azam, and Kazuo Shinozuka.
10. Attended and delivered oral presentation at the 85th Annual Spring Meeting of the Chemical Society of Japan at Kanagawa University, Kanagawa, Japan on 26-29 March 2005, entitled “Synthesis and alternate-stranded triplex forming ability of novel α - β chimeric oligoDNA bearing an anthraquinone conjugate with 2,2-bis(hydroxymethyl) propionic acid” by A. T. M. Zafrul Azam, Tomohisa Moriguchi and Kazuo Shinozuka
11. Attended and presented poster at the 31st Symposium on Nucleic Acid Chemistry at Showa University, Tokyo, Japan on 10-12 November 2004, entitled “Synthesis and Alternate-stranded Triplex Forming Ability of Novel α - β chimeric oligonucleotides bearing an intercalator-conjugated nucleobase” by A. T. M. Zafrul Azam, Minoru Hasegawa, Tomohisa Moriguchi and Kazuo Shinozuka.
12. Attended and presented poster at the First Gunma International Symposium on Chemistry at Gunma University, Gunma, Japan on 6 November 2004, entitled " α - β chimeric oligo-DNA bearing intercalator-conjugated nucleobase inside the linker sequence remarkably improves thermal stability of an alternate-stranded triple helix” by A. T. M. Zafrul Azam, Minoru Hasegawa, Tomohisa Moriguchi and Kazuo Shinozuka.
13. Attended at the 84th Annual Spring Meeting of the Chemical Society of Japan on 26-29 March 2004 at Kwansei Gakuen University, Hyogo, Japan.

14. Attended and delivered oral presentation at Bangladesh Health Economics Conference at Hotel Sheraton, Dhaka, Bangladesh on 4-5 July 2001, entitled “Effects of regulations on Pharmaceutical Market in Bangladesh” by A.T.M. Zafrul Azam and Muniruddin Ahmed. Unpublished.
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EDITOR / REGIONAL EDITOR

Regional Editor	➤ Journal of Pharmacology and Toxicology
	➤ Journal of Biological Sciences
Advisory Board Member	➤ The International Journal of Research and Reviews in Pharmacy and Applied Sciences (IJRRPAS)

MEMBERSHIP OF PROFESSIONAL BODIES

- ‘A’ Grade Registered Pharmacist of **Pharmacy Council of Bangladesh (A-1589)**
 - Member of **Asiatic Society of Bangladesh**
 - Member of **Bangladesh Pharmaceutical Society (BPS)**
 - Member of **Pharmacy Graduates' Association (PGA), Bangladesh**
 - Member of **the Chemical Society of Japan**
 - Life Member and **General Secretary** of Executive Committee of **Bangladesh JSPS Alumni Association (BJSPSAA)**
 - Life Member and **Senior Vice-President** of Executive Committee of **Japanese Universities Alumni Association in Bangladesh (JUAAB)**
 - Committee Member of **Bangladesh STEM Society (bdSTEM)**
 - Life Member, **Dhaka University Pharmacy Alumni Association (DUPAA)**
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COUNTRY VISITED

United Kingdom, Japan, South Korea, Thailand, Nepal, India, Singapore, China, Malaysia, Bhutan

AWARDS AND ACHIEVEMENTS

1. Dhaka Education Board of Bangladesh Scholarship at College level.
2. Dhaka University Scholarship at Graduate and Postgraduate level.

3. DFID, UK sponsored '**British Council Fellowship**' to attend a short course at University of York, York, UK.
 4. Japanese Government '**Monbugakusho Scholarship**' to perform Doctoral Program at Gunma University, Gunma, Japan. (Oct. 2002-Apr. 2006)
 5. Japanese Government '**JSPS postdoctoral fellowship**' for two years to carry out Postdoctoral Research at Kanagawa University, Yokohama, Japan. (Dec. 2006 to Dec. 2008)
 6. Japanese Government '**JSPS BRIDGE Fellowship-2014**' for 45 days to visit Kanagawa University, Yokohama, Japan. (21 Aug. 2014 to 04 Oct. 2014)
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REFEREES

1. Prof. Dr. Choudhuri Mahmooch Hasan (Rtd.), Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Dhaka, Dkala-1000. Cell: +880-1819-253698; Email: cmhasan@gmail.com
 2. Dr. Akira Ono, Professor, Department of Material and Life Chemistry, Faculty of Engineering, Kanagawa University, 3-27-1 Rokkakubashi, Kanagawa-ku, Yokohama, 221-8686, Japan. Tel.: +81-(0)45-481-5661 (ext 3887); Fax.: +81-(0)45-481-7915; Email: akiraono@kanagawa-u.ac.jp
 3. Dr. Kazuo Shinozuka, Professor, Department of Chemistry and Chemical Biology, Faculty of Engineering, Gunma University, 1-5-1, Tenjin-cho, Kiryu-shi, Gunma 376-8515, Japan. Tel.: +81-277-30-1320; Fax: +81-277-30-1321; Email: sinozuka@chem-bio.gunma-u.ac.jp
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PERSONAL DATA

Father's Name	S. M. Abdur Rouf	Mother's Name	Mst. Rokeya Begum
Wife's Name	Farazi Binti Ferdous, PhD		
Date of Birth	01 January 1972	Place of Birth	Rajshahi, Bangladesh
Nationality	Bangladeshi by Birth	Religion	Islam
Sex	Male	Marital Status	Married
Children	One Girl, One Boy		

Signature: 

Date: October 10, 2024