

***CURRICULUM VITAE***

***Of***

# Professor Dr. A.H.M. KHURSHID ALAM

**MAILING ADDRESS:** Professor

 Department of Pharmacy, University of Rajshahi

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Citation: 3192 (Googl Scholar)

## EDUCATIONAL QUALIFICATIONS

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| **Visiting Research Scientist, 2018-2019** | Completed follow up research as Visiting Research Scientist from December, 15, 2019 to March 13, 2019 under the funding of the JASSO (Japan Association of Student Service Organization) at JAIST (Japan Advanced Institute of Science and Technology), Japan. |
| Project Title | Prevention of Cancer by Natural Antioxidants |
| Supervisor | Toshifumi Tsukahara, PhD, Dean and Professor, Division of Transdisciplinary Science, JAIST, Japan. E-mail: tukahara@jaist.ac.jp |
| Medium of Instruction | English |
| **Postdoctoral Research, 2014-2016** | Completed postdoctoral research from April, 2014 to April 2016 as an Asian Young Scientist under the funding of the Tokyo Biochemical Research Foundation (TBRF) at Kyoto University, Japan. |
| Project Title | Genetic Analysis of Cell Competition that Governs Epithelial Tumor Suppression |
| Supervisor | Tatsushi Igaki, Professor, Graduate School of Biostudies, Kyoto University, Japan. E-mail: igaki@lif.kyoto-u.ac.jp |
| Medium of Instruction | English |
| **Ph.D., 2006-2010** | Completed Doctor of Philosophy (PhD) degree from JAIST, Japan. |
| Thesis Title | Changes of Alternative Splicing by Retinoic Acid Treatment and Cell Aggregation in Early Stage of Neural Differentiation of P19 Cells. |
| Thesis Supervisor | Toshifumi Tsukahara, PhD, Dean and Professor, Division of Transdisciplinary Science, JAIST, Japan. E-mail: tukahara@jaist.ac.jp |
| Medium of Instruction | English |
| **M. Pharm. 1997** | Completed one year M. Pharm. course from the Department of Pharmacy, Faculty of Science, University of Rajshahi, Rajshahi, Bangladesh in 1997. Obtained 1st class with 68% marks. |
| Thesis Title | Antishigella Activity of *Hemigraphis hirta* T. Anders and *Achyranthes ferruginea* Roxb. |
| Thesis Supervisor | Dr. Md. Golam Sadik, Professor, Department of Pharmacy, University of Rajshahi, Rajshahi-6205, Bangladesh. E-mail: gsadik2@yahoo.com |
| Medium of Instruction | English |

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| **B. Pharm. 1996** | Completed three years B. Pharm (Hons.) course from the Department of Pharmacy, Faculty of Science, University of Rajshahi, Rajshahi-6205, Bangladesh in 1996. Obtained 1st class with 61% marks. |
| Medium of Instruction | English |
| **H.S.C. 1992** | Passed two years Higher Secondary Certificate (H.S.C.) examination from Bagher Para Degree College, Jessore, Bangladesh in 1992. Obtained 1st division with 68.3% marks. |
| Medium of Instruction | **Bangla** |
| **S.S.C. 1990** | Passed ten years Secondary School Certificate (S.S.C.) examination from Bagher Para Pilot High School, Jessore, Bangladesh in 1990. Obtained 1st division with 68.5% marks. |
| Medium of Instruction | **Bangla** |

## PRESENT STATUS

## Professor, Department of Pharmacy, University of Rajshahi, Rajshahi-6205, Bangladesh.

Adjunct Professor, Independent University, Bangladesh (IUB), Dhaka-1245, Bangladesh

Part-time Faculty, Pabna University of Science and Technology, Bangladesh.

Academic Collaboration Advisor, Japan Advanced Institute of Science and Technology (JAIST), Japan.

Student Advisor, Rajshahi University Pharmacy Association (RUPA), Department of Pharmacy, Rajshahi University, Rajshahi-6205, Bangladesh.

**JOB EXPERIENCE AND SUBJECT TAUGHT**

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| From July, 2025 to December 31, 2025 | Part-time Faculty, Pabna University of Science and Technology, Bangladesh. |
| From July, 2025 to December 31, 2025 | Adjunct Professor, Independent University, Bangladesh (IUB), Dhaka-1245, Bangladesh. |
| From April, 2020 to March 31, 2022 | As Academic Collaboration Advisor, JAIST, Japan. Subject Taught: Cancer Biology |
| From April, 2018 to March 31, 2020 | As Academic Collaboration Advisor, JAIST, Japan. Subject Taught: Cancer Biology |
| From December 15, 2018 to March 13, 2019 | As visiting Research Scientist at JAIST, Japan. Subject Taught: Cancer Biology |
| From September 15, 2015 to till date | As Professor, Department of Pharmacy, University of Rajshahi, Bangladesh. Subject Taught: Physiology, Pharmacology, Biopharmaceutics |
| From April 17, 2014 to April 16, 2016 | As a postdoctoral researcher in Kyoto University, Japan.Subject Taught: Drosophila fly Genetics |
| From December 9, 2010 to September 14, 2015 | As Associate Professor, Department of Pharmacy, University of Rajshahi, Bangladesh. Subject Taught: Physiology, Pharmacology, Biopharmaceutics |
| From October, 2006 to June 2010 | As PhD student at Japan Advanced Institute of Science and Technology (JAIST), JapanSubject Taught: Molecular Biology |
| From November 05, 2005 to December 8, 2010 | As Assistant Professor, Department of Pharmacy, University of Rajshahi, Bangladesh. Subject Taught: Physiology, Pharmacology, Biopharmaceutics |
| From November 05, 2002 to November 04, 2005 | As Lecturer, Department of Pharmacy, University of Rajshahi, Bangladesh.Subject Taught: Physiology, Pharmacology, Biopharmaceutics |
| From February 28, 2001 to November 03, 2002 | As Product Executive in Nipa Pharmaceutical Ltd., Bangladesh.  |
| From June 20, 1999 to February 25, 2001 | As Executive in EDRUC Pharmaceuticals Ltd., Bangladesh. |

## RESEARCH EXPERIENCE

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| **(i)** Supervised Master of Pharmacy (M. Pharm.) and Doctor of Philosophy (PhD) level students who are engaged in research for the development of drugs having antioxidant properties from medicinal plants to be used in the treatment of wide variety of diseases such as cancer, diabetes, cardiovascular disease, Alzheimer’s disease etc caused by oxidative stress. Supervised 12 and 10 master level students as main and co-supervisor, respectively. Currently, I am supervising 2 M. Pharm. students as a main supervisor and two PhD students as a co-supervisor. At present, I am trying to identify dietary foods (vegetables, fruits, and spices) having anticancer activity would be considered for prevention of cancers.**(ii)** Three months research experience as Visiting Research Scientist in cancer cell biology.In this study, two compounds (characterized as 7-0-methylmearnsitrin and roseoside A with the collaboration of Dr. Kyoko Nakagawa-Goto, Associate Professor, School of Pharmacy, Kanazawa University, Japan) and 120 extracts obtained from plants and dietary foods (vegetables, fruits and spices), respectively were considered and their cytotoxicity as well as apoptotic activities were examined in different cancer cell lines (HeLa, HEK-293, H3122 and H2228).**(iii)** 2 years postdoctoral research experience in *Drosophila* fly genetics. In brief, in *Drosophila* imaginal epithelia, clones of cells mutant for evolutionarily conserved tumor suppressors such as *scribble* or *discs large* lose their polarity and are eliminated from the tissue by cell competition. Intriguingly, clones of cells mutant for the gene *lethal giant larvae (lgl)*, which is another component of the Scrible polarity complex, are not eliminated by cell competition but instead eliminate surrounding wild-type tissue by super-competition. Using this system, I performed a genetic screen in *Drosophila* eyes using a series of chromosomal deficiencies to identify genes required for super-competition triggered by *lgl clones*. Among the deficiencies screened, I identified some noble genes that, when mutated, strongly blocked super-competition by *lgl* clones; *lgl* mutant cells do not dominate but are eliminated from the tissue. Furthermore, I identified noble gene mutations that significantly enhanced the super-competition of *lgl* clones. The mechanisms underlying this phenomenon and the relationship among these genes regulating super-competition is trying to dissect. **(iv)** Completed 3 years 9 months research work on Molecular Biology in RNA processing (specially regulation mechanism of alternative splicing), entitle “Changes of Alternative Splicing by Retinoic Acid Treatment and Cell Aggregation in Early Stage of Neural Differentiation of P19 Cells” and submitted a dissertation in partial fulfillment of the requirements for the degree of Doctor of Philosophy (PhD) to the Department of Chemical Division, School of Material Science, JAIST, Japan.**(v)** Completed two years research work on Phytochemistry entitle “Antishigella Activity of *Hemigraphis hirta* T. Anders and *Achyranthes ferruginea* Roxb.” and submitted a dissertation in partial fulfillment of the requirements for the degree of M. Pharm to the Department of Pharmacy, University of Rajshahi, Bangladesh.  |

**ACHIEVEMENT OF RESEARCH FUNDING**

1. **Funding agency:** HEAT (Windo-3a), University Grants Commissions (UGC), Dhaka, Bangladesh

Name of investigators: **Dr. AHM Khurshid Alam**（Member）and Dr. Md. Golam Sadik (SPM), Dr. Mamunur Rashid (ASPM), Dr. Aziz Abdur Rahman (ASPM).

Project Title: Drug Discovery Targeting Receptor and Protein for Alzheimer’s Disease, Cancer & Cardiac Hypertrophy using Molecular and Cellular Approaches.

Year of funding: 2025-2028 (Awarded), Amount:500000 (Apo.) in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators: **Dr. AHM Khurshid Alam**（Chief investigator）and Dr. Adeeba Anjum (Co-PI)

Project Title: Exploring the therapeutic potential of *Curcuma wilcockii* rhizomes in EAC cell-induced tumor bearing mice.

Year of funding: 2025-2026 (Awarded), Amount:5000 (Apo.) in US dollar

1. **Funding agency:** University of Rajshahi, Bangladesh

Name of investigators: **Dr. AHM Khurshid Alam**（Chief investigator）and Dr. Aziz Abdur Rahman Anjum (Co-PI)

Project Title: Dissect the anticancer and antidiabetic mechanisms at the molecular level of identified compounds and *Gynura procumbens* leaves in mouse models and cell lines and in streptozotocin-induced diabetic rats, respectively, and establish a hub of extracts for indigenous functional foods and medicinal plants.

Year of funding: 2025-2026 (Awarded), Amount:5000 (Apo.) in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators: **Dr. AHM Khurshid Alam**（Chief investigator）and Dr. Adeeba Anjum (Co-PI)

Project Title: Inhibitory effect of methanol extract of *Aerva sanguinolienta* (Linn) Blume on HeLa and EAC cells and comparative antioxidant potentials of its different organic fractions.

Year of funding: 2023-2024 (Awarded), Amount:5000 (Apo.) in US dollar

1. **Funding agency:** Ministry of Education. Bangladesh

Name of investigators: Dr. Golam Sadik (PI) and **Dr. AHM Khurshid Alam (Co-PI)**

Project Title: Exploring Acetylcholinesterase and MAO Inhibitors from Traditional Medicinal Plants of Bangladesh for Treatment of Neurodegenerative Diseases..

Year of funding: 2022-2024 (Awarded), Amount:18000 (Apo.) in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators: **Dr. AHM Khurshid Alam**（Chief investigator）

Project Title: Bioassay guided identification of noble anticancer agent(s) from the aerial parts of *Pyrrosia lanceolata* (Polypodiaceae) in EAC cells.

Year of funding: 2021-2022 (Awarded), Amount:2500 (Apo.) in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators: Md. Uzzal Haque (Chief investigator**)** and **Dr. AHM Khurshid Alam**（Co- investigator）

Project Title: Evaluation of antioxidant and anticancer activities with biomolecules of Bangladeshi medicinal plants

Year of funding: 2020-2021 (Awarded), Amount: 5000 (Apo.) in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators:　 **Dr. AHM Khurshid Alam** (Chief investigator**)**

Project Title: Chemical and biological investigation of *Achyranthes ferruginea*: A study to identify novel drugs for the prevention and treatment of cancer.

Year of funding: 2018-2019 (Awarded), Amount: 2500 (Apo.) in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators:　**Dr. AHM Khurshid Alam**（Chief investigator）and Dr. Mamunur Rashid (Second chief investigator).

Project Title: Anticancer mechanism of antioxidant-enriched leavesof *Tabebuia pallida* in EAC cells

Year of funding: 2017-2018 (Awarded), Amount: 2500 (Apo.) in US dollar

1. **Funding Agency:** Bangladesh Medical Research Council

Name of investigators:　Dr. Abu Reza（Chief investigator）and **Dr. AHM Khurshid Alam** (Second chief investigator).

Project Title: Effect of ethephon (an artificial fruit ripening chemical) on the embryonic development of fish.

Year of funding: 2013-2014 (Awarded), Amount: 2500 in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators:　**Dr. AHM Khurshid Alam**（Chief investigator）and Laizuman Nahar (Second chief investigator).

Project Title: Evaluation of anti-oxidative potential and anticancer properties of bioactive principles from medicinal plants against EAC- induced tumor in mice

Year of funding: 2012-2013 (Awarded), Amount: 1150 in US dollar

1. **Funding agency:** Dean, Faculty of Science, University of Rajshahi, Bangladesh

Name of investigators: Professor Dr. Mamunur Rashid (Main investigator) and **Dr. AHM Khurshid Alam**（Second chief investigator）

Project Title: Effect of *Acacia nilotica* leaves extract on adrenaline-induced hyperlipidimia and cardiac remodeling in rats

Year of funding: 2009-2010 (Awarded), Amount: 1300 in US dollar

1. **Funding agency:** Cooperative independent research promotion, Dean, School of Material Science, JAIST, Japan

Name of investigators:  **AHM Khurshid Alam**（Chief investigator）and Nor Hakimah Ab Hakim and Hikaru Takayoshi (Research student).

Project Title: Alternative splicing of 4 selected genes during early stage of RA-induced differentiation of P19 cells.

Year of funding: 2008 (Awarded), Amount: 14,000 in US dollar

1. **Funding agency:** Cooperative independent research promotion, Dean, School of Material Science, JAIST, Japan.

Name of investigators: **AHM Khurshid Alam**（Chief investigator）and Nor Hakima Ab Hakim and Yoshiharu Sekiyama (Research student).

Project Title: Regulation of non- muscle and smooth muscle specific alternative splicing of *Actn1*.

Year of funding: 2007 (Awarded), Amount: 12,000 in US dollar.

**PROFESSIONAL QUALIFICATION**

Grade “A” Pharmacist with the Registration No. “A”-1917 awarded by Pharmacy Council of Bangladesh on 29/01/2001.

### TRAINING/WORKSHOP

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| * Two weeks in-plant training in “Square Pharmaceutical Limited” a leading chemical and pharmaceutical industry in Bangladesh.
* Three days’ workshop on Community Pharmacy and Health Care System held in Dhaka, Bangladesh, organized by WHO.
* One day workshop on role of Institutional Quality Assurance Cell (IQAC) on the development of higher education held in Rajshahi University, Bangladesh, organized by IQAC
* Two days’ workshop on National Policy to improve the primary, secondary and higher education in Bangladesh, organized by Bangladesh Academy of Science (BAS).
* One day discussion with Curriculum Design and Review (CDR) committee held in Rajshahi University, Bangladesh, organized by IQAC.
* One day training workshop on CDR held in Rajshahi University, Bangladesh, organized by IQAC.
* One day workshop on Effective Teaching-Learning and Assessment held in Rajshahi University, Bangladesh, organized by IQAC.
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**SCHOLARSHIPS/AWARDS**

* Best poster presentation award-2025 at Jashore University of Science and Technology in the year of 2025.
* Dean’s Award-2024 for publishing the highest number of quartile articles (Q1-Q4) in the years of 2021-2023.
* Dean’s Article Award-2024 for publishing an article in Q1 journal in the year 2023.
* JASSO follow up research fellowship as Visiting Research Scientist (for 3 months)
* University Grant Commission (UGC) Gold Medal Award-2016 for best paper in 2016
* Tokyo Biochemical Research Foundation (TBRF) Fellowship, 2014 for Postdoctoral Research (2 years)
* Japanese Government Scholarship, Monbukagakusho, 2006 for PhD study (For 3 years)
* Habibur Rahman Gold Medal Award, University of Rajshahi, 1997 on the basis of the result of B. Pharm. Examination
* Rajshahi University Scholarship, University of Rajshahi, 1996 on the basis of the result of B. Pharm. examination (For 1 year)
* Bangladesh Government Scholarship, Jessore Education Board, 1992, on the basis of the result of H.S.C. examination (For 3 years)
* Bangladesh Government Scholarship, Jessore Education Board, 1990, on the basis of the result of S.S.C. examination (For 2 years)
* Junior Government Scholarship (Talent pool), Khulna Junior Education Board, 1988 (For 2 years)

### MEMBERSHIP OF PROFESSIONAL BODIES

* Registered Pharmacist of Pharmacy Council of Bangladesh (BPC)
* Active member, Pharmacy Graduates Association (PGA)
* Active member, Bangladesh Pharmaceutical Society (BPS)
* Active member, Rajshahi University Teachers Association (RUTA)
* Active member, Rajshahi University Pharmacy Association (RUPA)
* Active member, Bangladesh Bioinformatics and Computational Biology Association (BBCBA)
* Active member, Curriculum Design and Review (CDR) committee of Pharmacy Department, Rajshahi University, Bangladesh
* Active member, PSAQ committee of Pharmacy Department, Rajshahi University, Bangladesh

**COMMUNITY CONTRIBUTION**

* Student Advisor (2024-2025), an organization that are accountable for cocurricular activities of students for Pharmacy Department, University of Rajshahi, Bangladesh.
* Press and Publication Secretary of Bioinformatics Research Group of Rajshahi University (BioRGRU), an organization for arranging local and international conference, seminar, workshop and symposium.
* Active member of Sajon, a blood donating organization for ill and poor people
* Treasure of RUPA (2003-2005 and 2011-2012), an organization that are accountable for cultural activities of students and teachers for Pharmacy Department, University of Rajshahi, Bangladesh.
* General Secretary and Joint Secretary of RUPA (1995-1997), an organization that are accountable for social gathering, study tour management, excursion arrangement, national and international day celebration.
* House Tutor of Mather Box Hall, Rajshahi University (2004-2006), a position of a residential student hall to manage their residence, and to organize other co-curriculum activities like cultural activities, sports, debating, and so on.
* Convener to arrange a local conference at Pharmacy Department in Rajshahi University, Bangladesh.

**PROFESSIONAL ACTIVITIES**

**1. Contribution as Reviewer**

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| **Name of the Journals** | **Number of Review Articles** |
| BMC Complementary and Alternative Medicine | 110 |
| Clinical Phytoscience | 65 |
| Journal of Pharmacy and Pharmacology | 13 |
| Asian Pacific Journal of Tropical Medicine | 07 |
| PLOS ONE | 20 |
| Journal of Bioscience | 15 |
| Phytotherapy Research | 05 |
| Pharmaceutical Biology | 02 |
| Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy | 04 |
| Saudi Journal of Biological Sciences | 06 |
| Journal of Pharmaceutical and Biomedical Analysis | 04 |
| Journal of Neurology and Neuromedicine | 03 |
| Experimental Biology | 03 |
| Biomedicine and Pharmacotherapy | 10 |
| Frontiers in Pharmacology/Oncology | 21 |
| Bangladesh Pharmaceutical Journal | 05 |
| Dhaka University Journal of pharmaceutical Sciences | 03 |
| Heliyon | 10 |
| Others | 40 |

**2. Editor**

Frontiers in Pharmacology and Frontiers in Oncology Journal from April 2020.

Academic editor in PLOSE ONE from April 2021.

Editorial Board member in Healthmed Journal of Pharmaceutical Sciences from November, 2024

**3. Invited Speakers**

* **AHM Khurshid Alam, Lecter on** “How can crude extracts be used in the treatment of cancer using EAC cells”organized by Dr. M. Ali research team, Associate Professor, Department of Pharmacy, Gopalganj University of Science and Technology, June, 2025**.**
* **AHM Khurshid Alam, Lecter on** “Ramadan Fasting: A Natural Detox for A Healthier Life**”** organized by Rajshahi University Science Club, March, 2025**.**
* **AHM Khurshid Alam,** Lecture on “Prevention of Cancer with Dietary Foods”, 1st International Conference on Public Health (ICPH), 2023, Department of Statistics, University of Rajshahi, Bangladesh, August, 2023.
* **AHM Khurshid Alam,** Lecture on “Guaianolide sesquiterpene lactone (Guai-1(10),5,7(11),8-tetradien-12,8-olide) suppresses the proliferation of cancer cells by inducing apoptosis”, International Conference, Department of Pharmacy, State University, Bangladesh, May, 2023.
* **AHM Khurshid Alam,** Lecture on “Anti-ROS Polyphenol-rich Leea aequata L. Leaves Potentiate Apoptosis-inducing Anti-proliferation on Cancer Cells”, International Conference, Department of Pharmacy, University of Dhaka, Bangladesh, February, 2023.
* **AHM Khurshid Alam,** Lecture on the selection of solvents for extraction as a process of identification of the compounds from the natural sources such as plants, microorganism, algae etc, Department of Genetics, University of Rajshahi, Bangladesh, 25th November, 2021.
* **AHM Khurshid Alam**. Lecture on Cell Competition: A New Approach for Cancer Study, Conference Room (337), Department of Statistics, Rajshahi University, Bangladesh, 17-19 Dec., 2017.
* **AHM Khurshid Alam.** Lecture onGenetic Analysis of Cell Competition that Governs Epithelial Tumor Suppression**,** International Symposium, Japan Advanced Institute of Science and Technology (JAIST), Japan, March 18, 2016.
* **AHM Khurshid Alam.** Lecture onRetinoic Acid Treatment and Cell Aggregation Independently Regulate Alternative Splicing in P19 Cells During Neural Differentiation**,** Conference Room (337), Department of Statistics, Rajshahi University, Bangladesh, 10 March, 2013.

**4. Research Collaboration**

1. Dr. Toshifumi Tsukahara, Professor and Vice-President, Japan Advanced Institute of Science and Technology (JAIST), Japan.

2. Dr. Kyoko Nakagawa-Goto, Associate Professor, School of Pharmacy, Kanazawa University, Japan

3. Dr. Glenda C Gobe, Associate Professor, Centre for Kidney Disease Research, School of Medicine, University of Queensland, Queensland, Australia.

4. Dr. Raffaele Capasso, Professor, Department of Agricultural Sciences, University of Naples Federico II, 80055 Portici, Italy.

5. Dr. Duygu Ağagündüz, Associate Professor, Department of Nutrition and Dietetics, Gazi University, Emek, Ankara 06490, Turkey; duyguturkozu@gazi.edu.tr

6. Dr. Abu Reza, Professor, Department of Genetics, University of Rajshahi, Bangladesh

7. BCSIR, Dhaka and Rajshahi, Bangladesh

8. Dr. Sayed Rassel Kabir, Professor, Department of Biochemistry and Molecular Biology, University of Rajshahi, Bangladesh.

9. ASM Ali Reza, Assistant Professor, Department of Pharmacy, International Islamic University, Chittagong, Bangladesh.

10. Dr. Mohsin Kazi, Professor, College of Pharmacy, King Saud University, P.O. Box 2457; Riyadh 11451, Saudi Arabia.

**RESEARCH SUPERVISING**

Both M. Pharm, and PhD research. I have already supervised 12 M. Pharm. students as a main supervisor and 1 PhD student as a co-supervisor. Currently, I am supervising 2 M. Pharm. students and 1 PhD student as a main supervisor and 2 PhD students as a co-supervisor. A list of PhD and M. Pharm (Thesis) students are given below:

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| **PhD Students** |
| **Name of the Students** | **Session** |
| Dr. Khadiza Khanam | 2019-2025 (Completed) |
| Naznin Shahria | 2018-2025 |
| Md. Uzzal Haque | 2021-2025 |
| Dr. Kawsarunnahar (Physician) | 2025- |

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| **M. Pharm (Thesis) Students** |
| **Name of the Students** | **Session** |
| Md. Shafiqul Islam | 2010-2011 |
| Dr. Md. Mohammad Ali | 2010-2011 |
| Mrs. Shamima Akhtar | 2011-2012 |
| Dr. Md. Sakhawat Hossain | 2012-2013 |
| Md. Mahbubur Rahman | 2013-2014 |
| Md. Golam Mostofa | 2016-2017 |
| Md. Azim Uddin | 2018-2019 |
| Joy Sarker | 2019-2020 |
| Md. Farhad Hossain | 2020-2021 |
| Md. Sabbir Hossain | 2021-2022 |
| ABM Ashraful | 2022-2023 |
| Miss Marium Khatun | 2023-2024 (On going) |

**LIST OF PUBLICATIONS** (For more details please visit: https://scholar.google.com/citations?user=7kMzTTIAAAAJ&hl=en)

**2025**

1. Hossain MS and **Alam AHMK**. Perspective Chapter: Preventive and Therapeutic Benefits of Edible Foods in Combating Oxidative Stress, IntecOpen, 2025.
2. Haque MU, **Alam AHMK**, Rahman MAA, Islam MS, Jibon DK, Sujon KM, Roqunuzzaman M, Rahman MM, Box MI, Khatun MM, Reza MA. Comprehensive pharmacological evaluation of protocatechuic acid methyl ester from Bombax ceiba as a novel anti-inflammatory and antitumor agent: Insights from in vivo efficacy and in silico studies. ***Results in Chemistry***, 18, 102694, 2025.
3. Hossain MS, Ashraful, ABM, Rahman AA, Rashid M, Sadik MG, Alam, AHMK. Anti-ROS and anticancer potential of rhizomes and a polyunsaturated fatty acid from chloroform fraction of *Curcuma wallichii* as a bioactive compound, ***Journal of Food Biochemistry***, 1-13, 2025
4. Hossain F, Zamaly S, Ashraful ABM, Rahman AA, Sadik MG, **Alam AHMK**. Exploring the therapeutic potential of Leea rubra (Vitaceae): Antioxidant efficacy, brine shrimp lethality, and in vivo anticancer activity against EAC cells in Swiss albino mice. ***Journal of Biologically Active Products from Nature***, 15, 2025.
5. Haque MU, **Alam AHMK**, Islam MS, Hasan MN, Rahman MAA, Reza MA. Phytochemical analysis and anticancer profiling of Bombax ceiba fractions against Ehrlich ascites tumor model. ***International Journal of Bioscience***, 26 (5), 65-74, 2025.
6. Khanam K, **Alam AHMK**, Kamal AHMM, Jahan MS, Islam MA, Rahman MAA, Rashid M. Antidiabetic, antidyslipidemic, hepatoprotective effects and histopathological analysis of aqueous extract of *Tamarindus indica* (Fabaceae) on streptozotocin-induced diabetic rats. ***Journal of Complementary and Alternative Medical Research***, 4(26), 10-20, 2025.

**2024**

1. Haque MU, **Alam AHMK**, Shovon MTI, Sujon KM, Maruf MMH, Kabir SR, Hoque KMF, Reza MB. Unveiling the apoptotic potential of antioxidant-rich Bangladeshi medicinal plant extractives and computational modeling to identify antitumor compounds. ***Heliyon***, 10 (20): e38885, 2024.
2. Reza ASMA, Raihan R, Azam S, Shahanewz M, Nasrin MS, Siddique MAB, Uddin MN, Dey AK, Sadik MG, **Alam AHMK**. Experimental and pharmacoinformatic approaches unveil the neuropharmacological and analgesic potential of chloroform fraction of Roktoshirinchi (Achyranthes ferruginea Roxb.). ***Journal of Ethnopharmacology,***324 (4)**,** 117779, 2024.
3. Uddin, A., Reza, A. S. M. A., Anjum, A., Rahman, M. A. A., Yesmin, S., Nasrin, M. S., Khatun, L., Mostofa, M. G., Sadik, M. G., and **Alam, AHMK**. In vitro Cytotoxic and Anti-ROS Potentials of the Aerial Part of Pyrrosia lanceolata on A549 Cells and Cell Free Condition. ***Bangladesh Pharmaceutical Journal***, 27(2), 137–148, 2024.
4. Khanam K, **Alam AHMK**, Sharmin F, Hossain I, Jahan S, Rahman AA and Rashid M. Oral glucose tolerance, hepatoprotective and nephroprotective effect of combination therapy of linagliptin and emblica officinalis and its ameliorating effect on streptozotocin induced diabetic rats. ***International Journal of Pharmaceutical Sciences and Research***, 15 (6), 1703-1710, 2024.
5. Ali MR, Reza ASMA, Haque MA, Islam MJ, Hossain MR, Mollah MI, Islam MB, Sarker J, Rashid M, Sadik MG, Cicia D, Capasso R, Kazi M, **Alam AHMK**. Exploring the therapeutic potential of edible vegetables, fruits, and spices against cancer in various cell lines. ***Journal of Cancer,*** 15(3):577-589, 2024.
6. Mostofa MG, Reza ASMA, Khan Z, Munira MS, Khatoon MM, Kabir SR, Sadik MG, Ağagündüz D, Capasso R, Kazi M, **Alam AHMK**. Apoptosis-inducing anti-proliferative and quantitative phytochemical profiling with in silico study of antioxidant-rich Leea aequata L. leaves. ***Heliyon***, 10: e23400

**2023**

1. Ferdous R, Islam MB, Al-Amin MY, Dey AK, Mondal MOL, Islam MN, **Alam AHMK**, Rahman AA, Sadik MG. Anticholinesterase and antioxidant activity of *Drynaria quercifolia* and its ameliorative effect in scopolamine-induced memory impairment in mice. ***Journal of Ethnopharmacology,*** 117095, 2023.
2. **Alam AHMK**, Miura Y, Rahman MAA, Sadik MG, Rashid M, Tsukahara T. Screening of aptamers that bind to the multivalent aminoglycoside amikacin. ***Bangladesh Pharmaceutical Journal***, 26(2), 134-145, 2023.
3. Ali MO, Khatune NA, **Alam AHMK**, Rahman MAAA. In vitro antibacterial and cytotoxic activities of various fractions of *Lippia alba* (Mill.). ***Bangladesh Pharmaceutical Journal***, 26(2), 150-156, 2023.
4. Khan MAR, Islam MA, Biswas K, Al-Amin MY, Ahammed MS, Manik MIN, Islam KM, Kader MA, **Alam AHMK**, Zaman S, Sadik MG. Compounds from the petroleum ether extract of *Wedelia chinensis* with cytotoxic, anticholinesterase, antioxidant, and antimicrobial activities. ***Molecules***, 28(2), 793, 2023.
5. Ahammed MS, Kader MA, Islam KMM, Lopa SS, **Alam AHMK**, Sadik G. Anti-inflammatory activity of the phenolic compounds from *Vanda roxburghii* R. Br. ***Bangladesh Pharmaceutical Journal***, 26(1): 1-6, 2023.
6. Ali MO, Khatune NA, Parvin MS, **Alam AHMK**, Rahman MAR. In vitro antioxidant and free radical scavenging activity of *Lippia alba* (Verbenaceae). ***Bangladesh Pharmaceutical Journal***, 26(1): 7-14, 2023.
7. Khadiza K, Sultana R, Kamal AHMM, Jahan MS, Rahman MAA, **Alam AHMK**, Rashid M. Linagliptin in combination with *Emblica officinalis* Gaertn improves glycemic control through alleviating dyslipidemia and oxidative stress on streptozotocin induced diabetic rats. ***Journal of Pharmaceutical Research International*,** 35 (12). 37-46, 2023**.**

**2022**

1. Al-Amin MY, Lahiry A, Ferdous R, Hasan MK, Kader MA, **Alam AHMK**, Saud MJA, Sadik MG. *Stephania japonica* ameliorates scopolamine-induced memory impairment in mice through inhibition of acetylcholinesterase and oxidative stress. ***Advances in Pharmacological and Pharmaceutical Sciences*,** 1-17, 2022.
2. Khan MA, Kassianos AJ, Hoy WE, **Alam AHMK**, Healy HG, Gobbi GC. Promoting plant-based therapies for chronic kidney disease. ***Journal of Evidence-Based Integrative Medicine***, 27, 1-16, 2022.
3. Uddin ABMN, Hossain F, Reza ASMA, Nasrin MS, **Alam AHMK.** Traditional uses, pharmacological activities and phytochemical constituents of the genus Syzygium: A review. ***Food Science & Nutrition*,** 1-31, 2022.
4. Foyzun T, Mahmud AA, Ahammed MS, Manik MIN, Hasan MK, Islam KMM, Lopa SS, Al-Amin MY, Biswas B, Afrin MR, **Alam AHMK**, Sadik MG. Polyphenolics with strong antioxidant activity from *Acacia nilotica* ameliorate some biochemical signs of arsenic-induced neurotoxicity and oxidative stress in Mice. ***Molecules***, 27, 1037, 2022.
5. Akter MJ, Khatun R, Khatune NA, **Alam AHMK**, Rahman NA. In vitro antioxidant and free radical scavenging activity of the bark of *Dillenia indica* L. ***Bangladesh Pharmaceutical Journal*** 25(1): 38-43, 2022.

**2021**

1. Reza ASMA, Sikdar N, Nasrin MS, Rahman MA, Tareq AM, **Alam AHMK**, Sharmin S, Sayeed MA. Knowledge, attitude, perception of biological science and healthcare professional students to complementary and alternative medicine health believe and practice in Southeastern region of Bangladesh: A comparative study. ***Bangladesh Pharmaceutical Journal,*** 24(2), 159-167, 2021.
2. Islam MA, Zaman S, Biswas K, Al-Amin MY, Hasan MK, **Alam AHMK**, Tanaka T, Sadik MG. Evaluation of cholinesterase inhibitory and antioxidant activity of *Wedelia chinensis* and isolation of apigenin as an active compound. ***BMC Complementary Medicine and Therapies***, 21(1), 1-12, 2021.
3. Rahman MM, Reza ASMA, Khan MA, Sujon KM, Sharmin S, Rashid M, Sadik MG, Reza MA, Tsukahara T, Capasso R, Mosaddik A, Gobe GC, **Alam AHMK.** Unfolding the Apoptotic Mechanism of Antioxidant Enriched-Leaves of Tabebuia pallida (Lindl.) Miers in EAC Cells and Mouse Model. ***Journal of Ethnopharmacology****,* 278(5), 114297, 2021.
4. Reza ASMA, Haque MA, Sarker J, Nasrin MS, Rahman MM, Tareq AM, Khan Z, Rashid M, Sadik MG, Tsukahara T, **Alam AHMK.** Antipriliferative and antioxidant potentials of bioactive edible vegetable fractionof *Achyranthes ferruginea* Roxb. in cancer cell line. ***Food Science and Nutrition***, 1-29, 2021.
5. Ahammed MS, Afrin R, Uddin N, Al-amin MY, Hasan K, Haque U, Islam MKM, **Alam AHMK,** Tanaka T, Sadik MG. Acetylcholinesterase inhibitory and antioxidant activity of the compounds isolated from *vanda roxburghi*. ***Advances in Pharmacological and Pharmaceutical Sciences,*** 1-9, 2021.
6. Islam SS, Karim MR, Asaduzzaman AKM, **Alam AHMK,** Mahmud ZH, Kabir SR. Trichosanthes dioica seed lectin inhibits Ehrlich ascites carcinoma cells growth in vivo in mice by inducing G0/G1 cell cycle arrest. ***Journal of Food Biochemistry***, 45(5), e13714, 2021.
7. Moni JNR, Tareq MAAM, Kabir MI, Reza ASMA, Nasrin MS, Hasan K, Syed AI, Sayem J, Rahman MA, **Alam AHMK,** Alam SB, Sakib MA, Oh KK, Cho DH, Capasso R. Therapeutic potentials of *Syzygium fruticosum* (seed) Roxb. reflect into an array of pharmacological assays and prospective receptors as well as enzyme-mediated pathways. ***Life,*** 11(2), 155, 2021.
8. Lopa SS, Al-amin MY, Hasan K, Ahammed MS, Islam KM, **Alam AHMK**, Tanaka T, Sadik MG. Phytochemical analysis and cholinesterase inhibitory and antioxidant activities of *Enhydra fluctuans* relevant in the management of Alzheimer’s disease. ***International Journal of Food Science***, 2021.
9. Rahman MM, Mosaddik A, **Alam AHMK**. Traditional foods with their constituent’s antiviral and immune system modulating properties: A Review. ***Heliyon,*** 1(7): e0595, 2021.
10. Hossain F, Mostofa MG, **Alam AHMK.** Traditional uses and pharmacological activities of the genus leea and its phytochemicals: a review. ***Heliyon,* 2(7),** e06222, 2021.
11. Sagor SI, Sajol GM, **Alam AHMK**, Anjum A. [*In vitro* evaluation of antioxidant potentiality and estimation of total phenolic and flavonoid content of the whole stem of *Coffea benghalensis* B. Heyne ex Schult](https://www.researchgate.net/profile/Adeeba-Anjum/publication/351932546_In_vitro_evaluation_of_antioxidant_potentiality_and_estimation_of_total_phenolic_and_flavonoid_content_of_the_whole_stem_of_Coffea_benghalensis_B_Heyne_ex_Schult/links/60b08d74a6fdcc647ee3594c/In-vitro-evaluation-of-antioxidant-potentiality-and-estimation-of-total-phenolic-and-flavonoid-content-of-the-whole-stem-of-Coffea-benghalensis-B-Heyne-ex-Schult.pdf). ***The Pharma Innovation Journal***, 10(3): 01-08, 2021.

**2020**

1. Rahim A, Mostofa MG, Sadik MG, Rahman MAA, Khalil MI, Tsukahara T, Nakagawa-Goto K, **Alam AHMK**. The anticancer activity of two glycosides from the leaves of *Leea aequata* L. ***Natural Product Research,*** 1-6. 2020.
2. Ahmad S, Nasrin MS, Reza ASMA, Chakrabarty N, Hoque MA, Islam S, Kabir MSH, Tareq SM, **Alam AHMK**, Haque MA. Arman MSI. Curculigo recurvata W.T.Aiton exhibits anti-nociceptive and anti-diarrheal effects in Albino mice and an in silico model, ***Animal Models and Experimental Medicine,*** 1–13, 2020.
3. Khatun R, Rashid M, **Alam AHMK**, Lee Y, Rahman MAA. Evaluation of comparative phenolic contents and antioxidant activity of Mikania Species available in Bangladesh. ***Frontiers in Science***, 10(1): 1-6, 2020.

**2019**

1. Sarker J, Ali MR, Khan MA, Rahman MM, Hossain ASMS, **Alam AHMK**. The plant *Aerva sanguinolenta*: A review on traditional uses, phytoconstituents and pharmacological activities, ***Pharmacognosy Reviews***, 13 (26): 89-92, 2019.
2. MHH Joarder, MU Islam, K Ahamed, MB Yameen, R Sharmin, **Alam AHMK**, A. Islam. Aqueous extract of *Bombax ceiba* young roots prolongs glucose, sucrose and starch absorption from intestine of normal rats. ***Journal of Biomedical and Pharmaceutical Sciences,*** 2 (2): 125, 2019.
3. Lopa SS, Hasan MK, Ahammed MS, Islam KMM, **Alam AHMK**, Rahman, MAA., Rashid M, Sadik, MG. *Typhonium trilobatum* demonstrates both antioxidant and acetylcholinesterase inhibitory activities *in vitro*. ***Bangladesh Pharmaceutical Journal*,** 22(1): 92-98, 2019.
4. Rahman M, Hossain ASM, Khan MA, Mostofa MG, Mosaddik A, Sadik MG, **Alam AHMK**. Evaluation of anti-ROS and anticancer properties of *Tabebuia pallida* L. leaves, ***Clinical Phytoscience*,** 5: 17, 2019.
5. MHH Joarder, MU Islam, K Ahamed, MB Yameen, R Sharmin, **Alam AHMK**, A. Islam. *Mikania scandens* leaves possess potent & prolong antidiabetic effect in alloxan-induced diabetes mice**. *Journal of Biomedical and Pharmaceutical Sciences,*** 2 (1): 117, 2019.

**2018**

1. Reza ASMA, Nasrin, MS, **Alam AHMK**. Phytochemicals, antioxidants, and cholinesterase inhibitory profiles of *Elatostema papillosum* leaves: An alternative approach for management of Alzheimer's disease. ***Journal of Neurology and Neuromedicine,*** 3 (5): 19-22, 2018.
2. Nasrin MS, Mostofa MG, Rashid MH, Islam MS, **Alam AHMK**. Antioxidant, free radical scavenging, antibacterial and cytotoxic compound from the leaves of *Syzygium fruticosum*. ***International Journal of Pharma Sciences and Scientific Research,*** 4(6): 69-73, 2018.
3. Sharmin R, Islam M, Joarder MHH, Alamgir MM, **Alam AHMK**. Antidiabetic and hepatoprotective activities of *Bombax ceiba* young roots in alloxan-induced diabetic mice. ***Journal of Nutritional Health and Food Science,*** 6 (5): 1-7, 2018.
4. Reza ASMA, Hossain MS, Akhter S, Rahman MR, Nasrin MS, Uddin MJ, Sadik G and **Alam AHMK.** *In vitro* antioxidant and cholinesterase inhibitory activities of *Elatostema papillosum* leaves and correlation with their phytochemical profiles: a study relevant to the treatment of Alzheimer's disease. ***BMC Complementary and Alternative Medicine***, 18(1):123, 2018.

**2017**

1. Rashid MH, Sadik MG, **Alam AHMK**, Uddin J, Karim N. Purification and properties of α-*N*-acetylgalactosaminidase from Hilsha Fish (*Hilsha ilisha*) of Bangladesh. ***Journal of Scientific Research***, 9(2):235, 2017.
2. Rashid MH, Sadik MG, **Alam AHMK**, Tanaka T. Chemical and structural characterization of α*-N*-Acetylgalactosaminidase I and II from starfish, *Asterina amurensis*. ***BMC Biochemistry***, 18(1): 9, 2017**.**
3. Rahman MM, Shamsuzzaman M, Khatun M, Rahman MM, Hossain ASMS, **Alam AHMK**, Mosaddik A, Wahed MII. Phytochemical and antimicrobial properties of *Tiliacora triandra* stem bark. ***British Journal of Pharmaceutical Research*,** 17(2): 1-9, 2017**.**
4. Rahman M, Hossain S, Khan MA, Mosaddik A, **Alam AHMK**. Comparative evaluation of antimicrobial activity of different parts of *Abelmoscus moschetous* against multi-registance pathogens. ***International Journal of Pharmaceutical Science and Research***, 8(4): 1874-1880, 2017.

**2016**

1. **Alam AHMK**, Hossain ASMS, Khan MA, Kabir SR, Reza MA, Rahman MM**,** Islam MS, Rahman MAA, Rashid M, Sadik MG.The antioxidative fraction of white mulberry induces apoptosis through regulation of p53 and NFκB in EAC cells. ***PLoS ONE*** 11(12): e0167536, 2016.
2. Rahman MM, Hossain ASMS, Khan MA, Haque MN, Hosen S, Mou SA, **Alam AHMK,** Ashik Mosaddik. *In-vitro* evaluation of antibacterial activity of different parts of *Tabebuia pallida* against multi-drug-resistant bacteria. ***Journal of Pharmacognosy and Phytochemistry,*** 5(6): 464-467, 2016.
3. Khan MA, Rahman MM, Sardar MN, Arman SI, Islam MB, Khandakar MJA, Sadik MG, **Alam AHMK.** Comparative investigation on free radical scavenging potential and anticancer property from leaves, root and stem bark of *Diospyros blancoi* (Ebenaceae). ***Asian Pacific Journal of Tropical Biomedicine,*** 1-8, 2016.

**2015**

1. Rahman MM,Islam MB, Biswas M, **Alam AHMK.** *In vitro* antioxidant and free radical scavenging activity of different parts of *Tabebuia pallida* growing in Bangladesh. ***BMC Research Notes***, 8: 621, 2015.
2. Uddin MN, Afrin R, Uddin MJ, Uddin MJ, **Alam AHMK**, Rahman AA, Sadik G. *Vanda roxburghii*chloroform extract as a potential source of polyphenols with antioxidant and cholinesterase inhibitory activities: identification of a strong phenolic antioxidant. ***BMC Complementary and Alternative Medicine* 15: 195, 2015.**
3. Kabir SR, Nabi MM, Nurujjaman M, Reza MA, **Alam AHMK**, Ferdaus KB, Amin R, Khan MMH, Hossain MA, Uddin MS, Mahmud ZH. *Momordica charantia* seed lectin: toxicity, bacterial agglutination and antitumor properties. ***Applied Biochemistry and Biotechnology*,** 175: 2616-2628, 2015.

**2014**

1. Khan MA, Rahman AA, Nahar L, IslamMB, **Alam AHMK.** *In vivo* analgesic and CNS depressant activities of antioxidative stem bark fraction of *Morus alba* L. ***Dhaka University Journal of Pharmaceutical Science*** 13(2): 225-227, 2014.
2. Zannah S, Islam MS, Rahman AFMT, Asaduzzaman M, Bari AAA, Ali Y, Islam GJ, Alam AHMK, Ali H, Rashid M. Antidiabetic drugs in combination with hydroxychloroquine improve glycemic control in alloxan-induced diabetic rats. ***Pharmacology & Pharmacy***, 5 (7): 725-735, 2014.
3. Begum MM, Rahman AFMT, Islam S, Asaduzzaman M, Ali H, Ali Y, Zannah S, **Alam AHMK**, Rahman AA, Rashid M. Simvastatin potentiates the antihyperglycemic, antidyslipidimic and antioxidative effect of glibenclamide on alloxan-induced diabetic rats. ***Pharmacology & Pharmacy***, 5 (11): 1059 -1069, 2014.
4. Ali H, Rahman AFMT, Islam S, Mamun A, Zannah S, **Alam AHMK**, Rahman AA, Rashid M. Combined therapy of pioglitazone and atorvastatin alleviate diabetes in rats more effectively than that of mono therapy. ***Pharmacology & Pharmacy***, 5 (5): 504-513, 2014.
5. Asaduzzaman M, Uddin MJ, Kader MA, **Alam AHMK**, Rahman AA, Rashid M, Kato K, Tanaka T, Takeda M, Sadik G. *In vitr*o acetylcholinesterase inhibitory activity　and the antioxidant properties *Aegle marmelos* leaf extract: implications for the treatment of Alzheimer’s disease. ***Psychogeriatrics***, 14 (1): 1-10, 2014.

**2013**

1. Islam S, Nasrin S, Khan MA, Hossain ASMS, Islam F, Khandokhar P, Mollah MNH, Rashid M, Sadik G, Rahman MAA, **Alam AHMK**.Evaluation of antioxidant and anticancer properties of seed extracts of Syzygium fruticosum Roxb. growing in Rajshahi, Bangladesh. ***BMC Complementary & Alternative Medicine****,*13:142, 2013.
2. Rahman, AFMT, Islam, MS, Ali MH, **Alam AHMK**, Rahman MAA, Sadik MG, Rashid M. *Nigella sativa* oil potentiates the effects of pioglitazone on long term alloxan-induced diabetic rats. ***Bangladesh Pharmaceutical Journal*** 16(2): 143-151, 2013.
3. Mamun　A, Islam　S, **Alam　AHMK**, Rahman　MAA, Rashid　M. Effects of ethanolic extract of *Hibiscus rosa-sinensis* leaves onalloxan-induced diabetes with dyslipidemia in rats. ***Bangladesh Pharmaceutical Journal****,* 16(1): 27-31, 2013.
4. Ali Y, IslamMS, **AlamAHMK**, RahmanMAA, MamunA, Hossain MK, HossainAKMM, Parvin S, Rashid M. Inhibitory effects of *Nigella sativa* seed extract on adrenaline-induced dyslipidemia and left ventricular hypertrophy in rats. ***Journal of Scientific Research***, 5(2):325-334, 2013.
5. Khatoon M, Islam E, Islam R, Rahman AA, **Alam AHMK**, Khondkar P, Rashid M, Parvin S. Estimation of total phenol and *in vitro* antioxidant activity of *Albizia procera* leaves. ***BMC Research Notes****,* 6: 121, 2013.
6. Khan MA, Rahman AA, Islam S, Khandokhar P, Parvin S, Islam MB, Hossain M, Rashid M, Sadik G, Nasrin S, Mollah MNH, **Alam AHMK.** A comparative study on the antioxidant activity of methanolic extracts from different parts of *Morus alba* L. (Moraceae). ***BMC Research Notes***, 6: 24, 2013.

**2012**

1. Saiful MI, **Alam AHMK,** Rahman MAA, Ali Y, Mamun A, Rahman M, Hossain AKMM, Rashid M**.** Effects of combination of antidiabetic agent and statin on alloxan-induced diabetes with cardiovascular diseases in rats. ***Journal of Scientific Research***, 4 (3): 709-720, 2012.
2. Nahar N, **Alam AHMK**, Saiful I, Mamun A, Hossain AKMM, Rahman MAA, Rashid M.Effects of *Acacia nilotica* leaf extract on adrenaline-induced hyperlipidemia and cardiac remodeling in rat. ***Bangladesh Pharmaceutical Journal*,** 15 (2): 135-139, 2012.
3. Suzuki H, Takeuchi M, Sugiyama A, **Alam AHMK**, Vu LT, Sekiyama Y, Dam HC, Ohki S, Tsukahara T. Alternative splicing produces structural and functional changes in CUGBP2. ***BMC Biochemistry****,* 13(1): 6, 2012.
4. Monira S, Haque A, Muhit A, Sarker NC, **Alam AHMK**, Rahman AA, Khondker P. Antimicrobial, antioxidant and cytotoxic properties of *Hypsizygus tessulatus* cultivated in Bangladesh. ***Research Journal of Medicinal Plant***, 6(4): 300-308, 2012.

**2011**

1. Islam MA, Khan MRI, Hossain MS, **Alam AHMK**, Wahed MII, Rahman BM, Anisuzzaman ASM, Shaheen SM, Ahmed M. Antidiabetic and hypolipidemic effects of different fractions of coccinia cordifolia L. on normal and streptozotocin-induced diabetic rats. ***Pakistan Journal of Pharmaceutical Science****,* 24(3): 331-338, 2011.
2. Suzuki H, Osaki K, Sano K, **Alam AHMK,** Nakamura Y, Ishigaki Y, Kawahara K, Tsukahara T. Comprehensive analysis of alternative splicing and functionality in neuronal differentiation of P19 cells. ***Public Library of Science ONE***, 6(2), e16880, 2011.

**2010**

1. **Alam AHMK,** Suzuki H, Tsukahara T. Retinoic acid treatment and cell aggregation independently regulates alternative splicing in P19 cells during neural differentiation. ***Cell Biology International***, 34(6): 631-643, 2010.
2. Hakimah NH, Kounishi T, **Alam AHMK,** Tsukahara T, Suzuki H. Alternative splicing of *Mef2c* promoted by Fox-1 during neural differentiation in P19 cells. ***Genes to Cell****,* 15(3): 255-267, 2010.

 **2009**

1. **Alam AHMK,** Suzuki H, Tsukahara T. Expression analysis of Fgf8a & Fgf8b in P19 cells during neural differentiation. ***Cell Biology International***, 33(9): 1032-1037, 2009.
2. Islam MA, Akhtar A, Khan MRI, Hossain MS, **Alam AHMK,** Wahed MII, Rahman BM, Anisuzzaman ASM, Shaheen SM, Ahmed M. Antidiabetic and hypolipidemic effects of different fractions of *Catharanthus roseus* (Linn.) on normal and streptozotocin-induced diabetic rats. ***Journal of Scientific Research*,** 1(2): 334-344, 2009.
3. Islam MA, Akhtar A, Khan MRI, Hossain MS, **Alam AHMK,** Wahed MII, Rahman BM, Anisuzzaman ASM, Shaheen SM, Ahmed M. Oral glucose tolerance test (ogtt) in normal control and glucose induced hyperglycemic rats with *Coccinia cordifolia L*. and *Catharanthus roseus* L. ***Pakistan Journal of Pharmaceutical Science***, 22(4): 402-404, 2009.

**2007**

1. Yamaki K, Li X, Hossain MA, **Alam AHMK,** Taneda S, Yanagisawa R, Takano H, Yoshino S. Difference in preventive effects between the phosphodiesterase IV inhibitor rolipram and anti-arthritic drugs on antigen-induced arthritis in mice. ***Immunological Investigation***, 36(2): 131-145, 2007.
2. **Islam R, Alam AHMK,** Rahman BM, Salam KA, Hossain MA, Baki A, Sadik MG. Toxicological studies of two compounds isolated fr*om Loranthus globosus* Rox**b*. Pakistan Journal of Biological Science***, 10(12): 2073-2077, 2007**.**
3. Rahman MM**, Alam AHMK,** Islam R, Khondhker P, Hossain MA, Rashid MA, Sadik MG. Antimicrobial and cytotoxic activities of *Achyranthes ferruginea*. ***Fitoterapia***, 78(3): 260-262, 2007.

**2006**

1. **Alam AHMK,** Islam R, Salam KA, Baki MA, Manir M, Hossain A, Sadik MG. Toxicological studies of *N-trans­-*feruloyl-4-methyldopamine isolated from *Achyranthes ferruginea.* ***Pakistan Journal of Biological Sciences***, 9(6): 1052-1055, 2006.

**2005**

1. Yamaki K, **Alam AHMK,** Hossain MA, Taneda S, Yanagisawa R, Takano H, Yoshino S. Effect of rolipram, a phosphodiesterase IV inhibitor, on allergic footpad swelling using various adjuvants in mice. ***Scandinavian Journal of Immunology***, 62(4): 378-384, 2005.
2. Rahman MM, Lopa SS, Sadik G, Rashid MH, Islam R, Khondkar P, **Alam AHMK,** Rashid MA. Antibacterial and cytotoxic compounds from the bark of *Cananga odorata.* ***Fitoterapia***, 76(4):758-761, 2005.
3. Salam KA, Hossain AKMM, **Alam AHMK,** Pervin F, Absar NA. Comparative analysis on physico-chemical characteristics of oil extracted from six different parts of hilsa fish (*Hilsa ilisha*). ***Pakistan Journal of Biological Sciences****,* 8(6): 810-815, 2005.
4. Baki MA, Akhtar N, Rahman MM, Islam MN, Hossain M, Islam N, **Alam AHMK,** Islam R, Khatun NA, Mondal KAMSH. Synergistic action of *Wedelia calendulacea* Less. plant extracts with lamda cyhalothrin on adult red flour bettle *Tribolium castaneum* herbs. ***Journal of Agronomy***, 4(1): 18-25, 2005.

**2004**

1. Yamaki K, Li X, Uchida H, **Alam AHMK**, Hossain MA, Yanagisawa R, Takano H, Taneda S, Hayashi H, Mori Y, Yoshino S. Effects of the phosphodiesterase IV inhibitor rolipram on Th1 and Th2 immune responses in mice. ***Journal of Pharmacy and Pharmacology***, 56(7): 877-882, 2004.
2. Yamaki K, Harada Y, **Alam AHMK,** Hossain MA, Mori Y, Yoshino S. Effect of lipopolysaccharide (LPS) on oral tolerance (blood, immune and allergic system). ***The Journal of Toxicological Science*,** 29(4), 394, 2004.
3. **Islam** R, **Alam AHMK,** Hossain MA, Mosaddik MA, Sadik G. Biological screening of Bangladeshi mango mistletoe *(Loranthus globosus* Roxb.) bark extracts*.* ***Fitoterapia***, 75(3-4): 405-408, 2004.
4. Hossain MS, Hossain A, Islam R, **Alam AHMK,** Zahan K, Sarkar S, Farooque MA. Antimicrobial and cytotoxic activities of 2- aminobenzoic acid and 2-aminophenol and their coordination complexes with Magnesium (Mg-II).***Pakistan Journal of Biological Sciences***, 7(1): 25-27, 2004.
5. Lopa SS, Sadik G, Rahman MM, Rashid MH, Islam R, Khondkar P, **Alam AHMK,** Rashid MA. Oxoaporphinoids and a benzoic acid derivative from *Cananga odorata*. ***Dhaka University Journal of Pharmaceutical Science***, 3(1&2): 1-4, 2004.

**2003**

1. Rashid MH, Rahman MAA, Gafur MA, Sadik G, **Alam AHMK,** Sugimoto M, Chowdhury R, Rashid MA. Chemical constituents of *Ipomoea turpethum*. ***Dhaka University Journal of Pharmaceutical Science***, 2(2): 73-76, 2003.
2. **Alam AHMK,** Sadik G, Rashid MH, Hasan CM, Rashid MA. *N*-*trans*-feruloyl-4-methyldopamine from *Achyranthes ferruginea*. ***Biochemical Systematics and Ecology***, 31(11): 1345-1346, 2003.

 **2002**

1. **Alam AHMK,** Rahman MAA, Baki MA, Rashid MH, Sadik G. Chemical constituents of *Hemigraphis hirta* T. Anders (Acanthaceae). ***Pakistan Journal of Biological Sciences***, 5(11): 1264-1266, 2002.
2. **Alam AHMK,** Rahman MAA, Bhuiyan MSA, Gafur MA, Sadik G. Antimicrobial and cytotoxic activities of the extracts of *Hemigraphis hirta* T. Anders. ***Bangladesh Pharmaceutical Journal***, 12(4): 11-14, 2002**.**
3. **Alam AHMK,** Rahman MAA, Baki MA, Rashid MH, Bhuiyan MSA, Sadik G. Antidiarrhoeal principles of *Achyranthes ferruginea* Roxb. and their cytotoxicity. ***Bangladesh Pharmaceutical Journal***, 12(4): 1-4, 2002.

**2001**

1. Sadik G, Gafur MA, Bhuiyan MSA, **Alam AHMK,** Biswas MHU, Hasan P, Mannan AM, Khan MOF, Chowdhury AKA. Antifertility activity of *Pergularia daemia*. ***Journal of Medical Sciences***, 1(1): 22-24, 2001.

**1999**

1. **Alam AHMK**. Antishigella activity of *Hemigraphis hirta* T. Anders and *Achyranthus ferruginea* Roxb, ***Department of Pharmacy***, 1999.

**PRESENTATION AT INTERNATIONAL CONFERENCES**

1. **Oral Presentation**
2. Rahman MM, Reza MA, Kabir SR, and **A.H.M Khurshid Alam.** Anticancer activity of Tabebuia pallida on Ehrlich ascites carcinoma cells in Swiss albino mice. ***International Conference on Material Science and Nano-Electrochemistry, Department of Chemistry, University of Rajshahi, Bangladesh (8-9 April, 2017)*.**
3. Rahman MM, Hossain ASMS, Reza MA, Kabir SR, Mosaddik A and **A.H.M Khurshid Alam.** Cytotoxic And Apoptogenic Effect Of *Tabebuia pallida* On Ehrlich Ascites Carcinoma Cells. ***International conference on Bioinformatics and Biostatistics for Agriculture, Health and Environment,* *University of Rajshahi, Bangladesh*** *(****20-23 January, 2017****).*
4. **AHM Khurshid Alam** and Tatsushi Igaki. Genetic analysis of cell competition that governs epithelial tumor suppression. ***Annual meeting of Tokyo Biochemical Research Foundation, Tokyo, Japan (March 3, 2016)*.**
5. **AHM Khurshid Alam** and Tatsushi Igaki. Genetic analysis of cell competition that governs epithelial tumor suppression. ***Annual meeting of Tokyo Biochemical Research Foundation, Tokyo, Japan (March 6, 2015)*.**
6. **AHM Khurshid Alam** and Tatsushi Igaki. Genetic analysis of super-competition triggered by *lgl* mutation. ***BMB conference 1015, Kobe, Japan (December 1-4, 2015).***
7. **A.H.M. Khurshid Alam**, Hitoshi Suzuki, Toshifumi Tsukahara. Alternative splicing of Fgf8 in P19 cells during neural differentiation. ***Annual meeting of Hokuriku Branch, Japanese Biochemical Society, Kanazawa (31th May, 2008).***
8. **Poster Presentation**
9. Md. Shamsuzzaman, Mahfuza Khatun, Md. Mostafijur Rahman, Mir Imam Ibne Wahed, **AHM Khurshid Alam** and Md. Mahbubur Rahman. Antimicrobial and phytochemical screening of Tiliacora triandra, ***International conference on Antimicrobial and phytochemical screening of Tiliacora triandra, Department of Chemistry, University of Rajshahi, Bangladesh (8-9 April, 2017).***
10. Md. Mostafijur Rahman, Md. Shamsuzzaman, Md. Mahbubur Rahman, **AHM Khurshid Alam**, Mir Imam Ibne Wahed and ASM Sakhawat Hossain. A comparative investigation to evaluate the analgesic, anti-inflammatory and CNS depressant activities of different parts of Solanum indicum in mice, ***International conference on Antimicrobial and phytochemical screening of Tiliacora triandra, Department of Chemistry, University of Rajshahi, Bangladesh (8-9 April, 2017).***
11. Md. Nazmul Haque, Shahadat Hosen, Mahfuza Khatun, ASM Sakhawat Hossain, **AHM Khurshid Alam** and Md. Mahbubur Rahman. Investigation of Antimicrobial Activity of Abelmoschus moschatus Against Multi-resistant Pathogens, ***International conference on Antimicrobial and phytochemical screening of Tiliacora triandra, Department of Chemistry, University of Rajshahi, Bangladesh (8-9 April, 2017).***
12. Rahman MM, Hossain ASMS, Reza MA, Kabir SR , Mosaddik A and **A.H.M Khurshid Alam.** Cytotoxic And Apoptogenic Effect Of *Tabebuia pallida* On Ehrlich Ascites Carcinoma Cells. ***International conference on Bioinformatics and Biostatistics for Agriculture, Health and Environment, University of Rajshahi, Bangladesh*** *(****20-23 January, 2017****).*
13. **AHM Khurshid Alam** and Tatsushi Igaki. Genetic Analysis of Cell Competition using ‘elimination-defective’ *lgl* Mutant Clones. ***1st International Conference on Cell Competition in Development and Cancer (September 10, 2015)*.**
14. Hitoshi Suzuki, Ken Osaki, Kaori Sano, **A.H.M. Khurshid Alam,** Yuichiro Nakamura, Yasuhito Ishigaki, Kozo Kawahara, Toshifumi Tsukahara. Comprehensive analysis and pathway analysis of alternative splicing during the neuronal differentiation of P19 cells. ***19th CBD meeting, RIKEN, Kobe (10-12th May, 2010).***
15. Nor Hakimah Ab Hakim, Toshiki Kounishi, **A.H.M. Khurshid Alam**, Toshifumi Tsukahara, Hitoshi Suzuki. Alternative splicing of Mef2c promoted by Fox-1 during neural differentiation in P19 cells. ***19th CBD meeting, RIKEN, Kobe (10-12th May, 2010)*.**
16. **A.H.M. Khurshid Alam**, Hitoshi Suzuki, Toshifumi Tsukahara. Changes of alternative splicing by retinoic acid treatment and cell aggregation in early stage of neural differentiation of P19 cells. ***BMB conference 2008, Yokohama, Japan (December, 2008).***

**PRESENTATION AT DOMESTIC CONFERENCES**

1. **Oral Presentation**
2. Samima Nasrin, Shafiqul Islam, Mohammad Ali Khan, Md. Abdul Aziz, Aziz Abdur Rahman, Mamunur Rashid, Golam Sadik and **A.H.M. Khurshid Alam**. Antioxidant properties of methanolic extracts from the seeds and leaves of *Syzygium fruticosum* Roxb. (Myrtaceae). ***“The Role of Scientist and Technologist to Achieve MDG”, 22th Bangladesh Science Conference, BCSIR, Dhaka, Bangladesh (27-29 October, 2012)****.*
3. Samima Nasrin, Shafiqul Islam, Mohammad Ali Khan, Md. Abdul Aziz, Aziz Abdur Rahman, Mamunur Rashid, Golam Sadik and **A.H.M. Khurshid Alam**.Antibacterial and antioxidant properties of methanolic extract and its various fractions from the seeds of Syzygium fruticosum Roxb.). “Green Chemistry for Suatainable Development”, Jessore Science and Technology University, Jessore ***(14th July***, 2***012)****.*
4. **Poster Presentation**
5. **A.H.M. Khurshid Alam**, Hitoshi Suzuki, Toshifumi Tsukahara. Change of expression of Actn1 and Sr3a genes during early stage of neural differentiation in P19 cells. ***31st Biochemistry and Molecular Biology Conference, BMB 2008, Kobe Port Island (9-12 December, 2008)***.
6. Md. Mohammad Ali Khan, Md Shafiqul Islam and **A.H.M. Khurshid Alam.** Comparative evaluation of *in vitro* antioxidant activity of methanolic extracts from different parts of *Morus alba* L. (Tut). ***4th Zoha Memorial Symposium, Rajshahi University (15th February, 2012)***.
7. Mohammad Ali Khan, Shafiqul Islam, Samima Nasrin, Sakhawat Hossain and **A.H.M. Khurshid Alam**. Polyphenolic contents and antioxidant potential of stem bark extracts from Morus alba L. (Moraceae). BSBMB Conference, Chittagong University, (12-13th January, 2013).
8. Shafiqul Islam, Samima Nasrin, Muhammad Ali Khan, Sakhawat Hossain, Farhadul Islam, Aziz Abdur Rahman, Mamunur Rashid, Golam Sadik and **A.H.M. Khurshid Alam**. Antioxidant, free radicals scavenging and anticancer properties of Syzygium fruticosum seed extracts. BSBMB Conference, Chittagong University, (12-13th January, 2013).

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