

**MD. ABUL KALAM AZAD, Ph.D.**

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Dr. Md. Abul Kalam Azad is A pioneering researcher related to bio-based polymers, smart encapsulation technology, and targeted drug delivery, listed as a Top 2% scientist by Stanford University in the year 2023 and appointed as a senior lecturer at UCMI University.

**EDUCATION**

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| Ph.D. in Pharmaceutical Technology | International Islamic University Malaysia, Malaysia. | **2017-2021** |
| M. Pharm in Pharmaceutical Sciences | International Islamic University Malaysia, Malaysia. | **2012-2015** |
| B. Pharm (Hons) | Gono Bishwabidyalay, Bangladesh. | **2005-2010** |

**Teaching experience**

**BSc. PharmTech**

1. Physical Pharmacy
2. Biopharmaceutical -Product Development
3. Drug Delivery System
4. Drug Dosage Design
5. Dosage Form Design IV-Parenteral
6. Pharmaceutical Engineering-I
7. Pharmaceutical Engineering-II
8. Radiopharmacy
9. Introduction to Biopharmaceuticals and Pharmacokinetics
10. Introduction to Pharmaceutical Calculations and Biostatistics
11. Pharmaceutical regulatory control
12. Dosage Form Design-V (smart drug delivery system)
13. Dosage Form Design-I
14. Dosage Form Design-II
15. Dispensing Practice-I: Solid Preparation
16. Industrial Pharmacy & Regulatory control
17. Industrial Attachment and Research
18. Pilot Plant Scale up Technique.

**Student Supervision**

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| **Name/Reg. No.** | **Thesis title** | **Degree** | **University/Country** | **Year** |
| Fatema Tuz Zohera | Fabrication of Chrysin-loaded mesoporous nanoparticles to enhance transdermal drug delivery | Ph.D | Internation Islamic University Malaysia/ Malaysia | 2022 |

**External Examiner for MSc/PhD Thesis**

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| --- | --- | --- | --- | --- |
| **Name/Reg. No.** | **Thesis title** | **Degree** | **University/Country** | **Year** |
| Faqir Ullah/1165-Pharm-03 | Aerosolization and Inhalation Performance of Pure and Polymeric Drug Nanoparticles Admixed with Lactose Microparticles | Ph.D | Gomal University/ Pakistan | 2022 |
| Muhammad Danish Saeed/3555-Pharm-19 | Atorvastatin Loaded Particulate Carrier Designs for Potential Application in Atherosclerosis | Ph.D | Gomal University/ Pakistan | 2023 |
| Wahib Noor Khan/2014-USTB-81105) | Isolation and Structure Elucidation of Bioactive Metabolites from Ageratum Conzyoides Linn and Related Medicinal Plants | Ph.D | University of Science and Technology/Pakistan | 2023 |
| Saima Fida/1624-PHARM/CS-06 | Iodine Based Self-Emulsifying Drug Delivery System: A Unique Tool for Treatment of Bacterial Vaginosis | Ph.D | Gomal University/ Pakistan | 2024 |
| Shah Fahad Khan/1915-Pharm/CS-08 | Bioavailability Augmentation Potential of SEDDS for Famotidine | Ph.D | Gomal University/ Pakistan | 2024 |

**Funds**

|  |  |  |
| --- | --- | --- |
| **Name**  | **Amount** | **National/International** |
| ASEAN-India Collaborative Fund | RM. 1610000 | International |

**SELECTED PUBLICATIONS (Total =71, Impact Factor=30)**

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| --- | --- |
|  | Muhammad Khurshid Alam Shah, Asif Nawaz, Muhammad Shahid Latif, Wasi Ullah, Abdullah F. AlAsmari, Fawaz Alasmari, Aziz Ullah, Azmat Ali Khan, Vinoth Kumarasamy, Vetriselvan Subramaniyan, Abul Kalam Azad. (2024). Chitosan based Mupirocin and Alkanna tinctoria Extract Nanoparticles for the Management of Burn Wound; in vitro and in vivo Characterization, Nanotechnology Reviews, (Q1/WoS, IF 7.4). |
|  | Amit Gangwal, Azim Ansari, Iqrar Ahmad, Abul Kalam Azad, Wan Mohd Azizi Wan Sulaiman. (2024). Current strategies to address data scarcity in artificial intelligence-based drug discovery: A comprehensive review, Computers in Biology and Medicine, 179(9), 108734, (Q1/WoS, IF 7.0). |
|  | Aljowaie, R. M., Zengin, G., Jaradat, N., Mammadova, A. O., **Abul Kalam Azad**, Beylerli, O., & Kiren, I. (2024). Lamiales epidermal dynamics: Unveiling antimicrobial resilience in a structural symphony. Microscopy Research and Technique, (Q1/WoS, IF 2.4). |
|  | Nadhari, S., Abbasova, G., Al‐Qahtani, W. H., Zengin, G., Islamov, S., Mammadova, A. O., **Abul Kalam Azad** & Kiren, I. (2024). Assessment of the botanical origin of Saudi Arabian honey samples to identify pollen with chromatographic tools and packing and storage. Biomedical Chromatography, e5869, (Q1/WoS, IF 1.8). |
|  | Gangwal, A., Ansari, A., Ahmad, I., Azad, A. K., Kumarasamy, V., Subramaniyan, V., & Wong, L. S. (2024). Generative artificial intelligence in drug discovery: basic framework, recent advances, challenges, and opportunities. Frontiers in Pharmacology, 15, 1331062, (Q1/WoS, IF 6.4). |
|  | Azad, A. K., Lai, J., Sulaiman, W. M. A. W., Almoustafa, H., Alshehade, S. A., Kumarasamy, V., & Subramaniyan, V. (2024). The Fabrication of Polymer-Based Curcumin-Loaded Formulation as a Drug Delivery System: An Updated Review from 2017 to the Present. Pharmaceutics, 16(2), 160, (Q1/WoS, IF 5.4). |
|  | Azad, A. K., Sulaiman, W. M. A. W., Almoustafa, H., Dayoob, M., Kumarasamy, V., Subramaniyan, V., & Khan, A. A. (2024). A dataset of microstructure features of electro-hydrodynamic assisted 5-fluorouracil-grafted alginate microbeads and physicochemical properties for effective colon targeted carriers drug delivery. Data in Brief, 110202, (Q1/WoS, IF 2.3). |
|  | Nazmun Nahar, Ummul Khair Fatema, Partha Protim Sharma, Abdul Motaleb Bhuiya, Taslima Begum, Nur Fauwizah Azahar, Mohammad Nasrin Abdul Rahman, Wan Mohd Azizi Bin Wan Sulaiman, Abul Kalam Azad. (2024). Antioxidant, anti-inflammatory, antidiabetic, anthelminthic, and thrombolytic activity of the methanol extract of citrullus lanatus peel, Universal Journal of Pharmaceutical Research, 8(6);5-13. |
|  | Lai, J., Azad, A. K., Sulaiman, W. M. A. W., Kumarasamy, V., Subramaniyan, V., & Alshehade, S. A. (2024). Alginate-based encapsulation fabrication technique for drug delivery: an updated review of particle type, formulation technique, pharmaceutical ingredient, and targeted delivery system. Pharmaceutics, 16(3), 370, (Q1, ISI, Impact Factor 5.4). |
|  | Azad AK and Mohamed F. (2024). Determination of total phenolic and flavonoid content and evaluation of antioxidant activities of *cuscuta reflexa*, Universal Journal of Pharmaceutical Research, 8(6);5-13. |
|  | Jaber, Q. A., Shentaif, A. H., Almajidi, M., Ahmad, I., Patel, H., Azad, A. K., & Rao, S. A. (2023). Synthesis, Structure, and In Vitro Pharmacological Evaluation of some New Pyrimidine-2-Sulfonamide Derivatives and Their Molecular Docking Studies on Human Estrogen Receptor Alpha and CDK2/Cyclin Proteins. Russian Journal of Bioorganic Chemistry, 49(Suppl 1), S106-S118. (Q4, ISI, Impact Factor 1.0). |
|  | Taha Alqahtani, Sharada L. Deore, Anjali A. Kide, Bhavana A. Shende, Ritika Sharma, Rita Dadarao Chakole, Lalita S. Nemade, Nikita Kishor Kale, Sudarshana Borah, Savita Shrikant Deokar, Ashok Behera, Divya Dhawal Bhandari, Nikita Gaikwad, **Abul Kalam Azad**, Arabinda Ghosh. 2023). Mitochondrial dysfunction and oxidative stress in Alzheimer’s disease, and Parkinson’s disease, Huntington’s disease and Amyotrophic Lateral Sclerosis-An updated review. Mitochondrion. (Q1, ISI, Impact Factor 4.4). |
|  | Rudresha, K., Zahir Hussain, A., Ravikumar, C. R., Anil Kumar, M. R., Naveen Kumar, A., Manjunatha, A. S., & Rahman, M. M. (2023). Bimetallic CuO− ZnO Hybrid Nanocomposite Materials for Efficient Remediation of Environmental Pollutants. ChemistrySelect, 8(29), e202300583. (Q1, ISI, Impact Factor 2.1). |
|  | Abul Kalam Azad, Pijush Paul, and Abd Almonem Doolaanea (2023). Polymer composite sensors for biomedical applications, Woodhead Publishing Series in Composites Science and Engineering, Elsevier Ltd. |
|  | Azarbani, F., Jafari, S., Murthy, H. A., & Azad, A. K. (2023). Antimicrobial, antifungal and antiradical activities of the essential oils from the flower and leaf extracts of Iranian Ferulago macrocarpa plant. Journal of Herbal Medicine, 100658. (Q2, ISI, Impact Factor 2.54). |
|  | Muhammad Zahid Khan, Abul Kalam Azad, Saleem Jan, Muhammad Safdar, Shabana Bibi, AMS Abdul Majid, Ghadeer M. Albadrani, Nehal Ahmed Talaat Nouh, Jawaher A. Abdulhakim and Mohamed M. Abdel-Daim (2023). Experimental and computational analysis of plant compounds from whole Urtica Dioica L. plant’s oil for antioxidant and antibacterial activities, Metabolites, (Q2, ISI, Impact Factor 5.58). |
|  | Jan, S., Khan, Y. M., Shah, Z. H., Azad, A. K., & Balaraman, A. K. Azad (2023). Synthesis and Biological Potential of Sliver Nanoparticles of Euphorbia helioscopia L. Current Trends in Biotechnology and Pharmacy, 17(1), 621-626. |
|  | Muhammad Akhlaq, Saima Fida, Aamir Jalil, Aisha Siddiqua, Junaid Asghar, Abul Kalam Azad, Taslima Begum, Rabia Zahid, Azmat Ali Khan, Saima Fida, Mireia Mallandrich. (2023). pH-sensitive controlled hydrogels by free radical polymerization of acrylic acid and beta cyclodextrin using ethylene diamine methacrylate for targeted drug delivery, Pharmaceutics, Under review (Q1, ISI, Impact Factor 6.52). |
|  | Sadia Jafar Rana, Jahanzeb Mudassir, Syed Nisar Hussain Shah Shah, Muhammad Akhlaq, Junaid Asghar Asghar, Abul Kalam Azad \*, Taslima Begum, Mireia Mallandrich, AMS Abdul Majid, Ghadeer M. Albadrani, Amany A. Sayed, Ahmed E. Altyar, Mohamed M. Abdel-Daim. (2023). Development of ethyl cellulose assisted tamsulosin hydrochloric acid loaded microballoon using a solvent evaporation technique, Pharmaceutics, Under review (Q1, ISI, Impact Factor 6.52). |
|  | Mojtaba Shafiei, Saiful Izwan Abd Razak, Mohamad Ikhwan Jamaludin, Mohd Riduan Mohamad, Hadafi Fitri Mohd Latip, Mohd Amri Md Yunus, Mireia Mallandrich Miret, Abul Kalam Azad, Taslima Begum, AMS Abdul Majid. (2023). The therapeutic potential of Stingless Bee Propolis's: A Comprehensive review of clinical trial. European Journal of Integrative Medicine, Under review (Q2, ISI, Impact Factor 1.52). |
|  | Gul, H.; Naseer, R.D.; Abbas, I.; Khan, E.A.; Rehman, H.U.; Nawaz, A.; Azad, A.K.; Albadrani, G.M.; Altyar, A.E.; Albrakati, A.; Abdel-Daim, M.M. The Therapeutic Application of Tamarix aphylla Extract Loaded Nanoemulsion Cream for Acid-Burn Wound Healing and Skin Regeneration. Medicina 2023, 59, 34. (**SCIE/Q1, IF: 2.98**). |
|  | Asghar, A. A., Akhlaq, M., Jalil, A., Azad, A. K., Asghar, J., Adeel, M., & Abdel-Daim, M. M. (2022). Formulation of ciprofloxacin-loaded oral self-emulsifying drug delivery system to improve the pharmacokinetics and antibacterial activity. Frontiers in Pharmacology, 13. (**SCIE/Q1, IF: 5.88**). |
|  | Balchaa, E. K., Maricab, A., Zelekea, T. D., Murthya, H. C. A., Royc, A., Ravikumard, C. R., & Azade, A. K. (2022). Allium sativum extract mediated synthesis of Ag/Zn bimetallic nanostructures for antibacterial application. Digest Journal of Nanomaterials and Biostructures, 17(3), 1057-1072. (**SCIE/Q3, IF: 2.88**). |
|  | Abul Kalam Azad, Md Saquib Hasnain and Amit Kumar Nayak and Ng Yen Ping (2022). Application of nanotheranostics nano particles in cancer, Cancers, Woodhead Publishing Series in Biomaterials, Elsevier Ltd. |
|  | Zehravi, M., Karthika, C., Azad, A.K., Ahmad, Z., Khan, F.S., Rahman, M. and Akter, R., 2022. A Background Search on the Potential Role of Scutellaria and Its Essential Oils. BioMed Research International, 2022. (**SCIE/Q1, IF: 3.24**). |
|  | Jiffrin, R., Razak, S.I.A., Jamaludin, M.I., Hamzah, A.S.A., Mazian, M.A., Jaya, M.A.T., Nasrullah, M.Z., Majrashi, M., Theyab, A., Aldarmahi, A.A. and Awan, Z., (2022). Electrospun Nanofiber Composites for Drug Delivery: A Review on Current Progresses. Polymers, 14(18):3725. (**SCIE/Q1, IF: 4.96**). |
|  | E. K. Balchaa, A. Maricab, T. D. Zelekea, H. C. A. Murthya, A. Royc,C. R. Ravikumard, S. Cavalub, A. K. Azad (2022). Allium sativum extract mediated synthesis of Ag/Zn bimetallic nanostructures for antibacterial application, Digest Journal of Nanomaterials and Biostructures 17(3): 2022, (**SCIE/Q3, IF: 0.98**). |
|  | Asghar AA, Akhlaq M, Jalil A, Azad M, Kalam A, Asghar J, Adeel M, Albadrani GM, Al-Doaiss AA, Kamel M, Altyar AE. (2022). Formulation of ciprofloxacin loaded oral self-emulsifying drug delivery system to improve the pharmacokinetics and antibacterial activity. Frontiers in Pharmacology.:4031. (**SCIE/Q1, IF: 5.98**). |
|  | Chenmala Karthika, Md. Habibur Rahman, Raman Sureshkumar, Rokeya Akter, Azmat Ali Khan, Amer M. Alanazi, Abul Kalam Azad, Paritosh Barai, Hasi Rani Barai. (2022). 5-fluorouracil and curcumin combination coated with pectin and its strategy towards titanium dioxide, dimethylhydrazine colorectal cancer model with the evaluation of the blood parameters, Polymers, (**SCIE/Q1, IF: 4.96**). |
|  | Buzuayehu Abebe, H. C. Ananda Murthy, Abdulraheem S. A. Almalki, A. Alhadhrami, Abul Kalam Azad. (2022). Metal Oxide Heterojunction for Photocatalytic Activities, Journal of Visualized Experiments, e64077, (**SCIE/Q3, IF: 1.62**). |
|  | Shah, M. K. A., **Azad, A. K.,** Nawaz, A., Ullah, S., Latif, M. S., Rahman, H., & Abdel-Daim, M. M. (2022). Formulation Development, Characterization and Antifungal Evaluation of Chitosan NPs for Topical Delivery of Voriconazole In Vitro and Ex Vivo. Polymers, 14(1), 135. (**SCIE/Q1, IF: 4.96**). |
|  | Shah MKA, Azad AK, Nawaz A, Ullah S, Latif MS, Rahman H, Alsharif KF, Alzahrani KJ, El-Kott AF, Albrakati A, Abdel-Daim MM. (2022). Formulation Development, Characterization and Antifungal Evaluation of Chitosan NPs for Topical Delivery of Voriconazole In Vitro and Ex Vivo. Polymers, 14(1):135. (**SCIE/Q1, IF: 4.96**). |
|  | Fuloria, S., Mehta, J., Chandel, A., Sekar, M., Rani, N. N. I. M., Subramaniyan, V., & Fuloria, N. K. **Azad, A. K.** Comprehensive Review on the Therapeutic Potential of Curcuma Longa in Relation to its Major Active Constituent Curcumin. Frontiers in Pharmacology, 393. (**SCIE/Q1, IF: 5.98**) |
|  | Nasir NN, Sekar M, Fuloria S, Gan SH, Rani NNIM, Ravi S, Begum MY, Chidambaram K, Sathasivam KV, Jeyabalan S, Dhiravidamani A, Thangavelu L, Lum PT, Subramaniyan V, Wu YS, **Azad AK**, Fuloria NK. Kirenol: A Potential Natural Lead Molecule for a New Drug Design, Development, and Therapy for Inflammation. Molecules. 2022; 27(3):734. (**SCIE/Q2, IF: 4.95**) |
|  | Habib R, **Azad AK,** Akhlaq M, Al-Joufi FA, Shahnaz G, Mohamed HRH, Naeem M, Almalki ASA, Asghar J, Jalil A, Abdel-Daim MM. Thiolated Chitosan Microneedle Patch of Levosulpiride from Fabrication, Characterization to Bioavailability Enhancement Approach. Polymers. 2022; 14(3):415. (**SCIE/Q1, IF: 4.96**)**.** |
|  | Khattulanuar FS, Sekar M, Fuloria S, Gan SH, Rani NNIM, Ravi S, Chidambaram K, Begum MY, **Azad AK,** Jeyabalan S, Dhiravidamani A, Thangavelu L, Lum PT, Subramaniyan V, Wu YS, Sathasivam KV, Fuloria NK. Tilianin: A Potential Natural Lead Molecule for New Drug Design and Development for the Treatment of Cardiovascular Disorders. Molecules. 2022; 27(3):673. (**SCIE/Q2, IF: 4.95**). |
|  | Roy, A., Singh, V., Sharma, S., Ali, D., **Azad, A. K.,** Kumar, G., & Emran, T. B. (2022). Antibacterial and Dye Degradation Activity of Green Synthesized Iron Nanoparticles. Journal of Nanomaterials, 2022. (**SCIE/Q3, IF: 2.98**). |
|  | Khan MA, **Azad AK,** Safdar M, Nawaz A, Akhlaq M, Paul P, Hossain MK, Rahman MH, Baty RS, El-kott AF, Kamel M, Bungau SG, Abdel-Daim MM. Synthesis and Characterization of Acrylamide/Acrylic Acid Co-Polymers and Glutaraldehyde Crosslinked pH-Sensitive Hydrogels. Gels. 2022; 8(1):47. (**SCIE/Q2, IF: 4.70**). |
|  | Fuloria, S., Yusri, M.A.A., Sekar, M., Gan, S.H., Rani, N.N.I.M., Lum, P.T., Ravi, S., Subramaniyan, V., **Azad, A.K.,** Jeyabalan, S. and Wu, Y.S., 2022. Genistein: A Potential Natural Lead Molecule for New Drug Design and Development for Treating Memory Impairment. Molecules, 27(1), p.265. **(SCI/Q1, IF: 4.95).** |
|  | Khan, A., Hussain, S., Ahmad, S., Suleman, M., Bukhari, I., Khan, T., Rashid, F., **Azad, A.K.,** Waseem, M., Khan, W. and Hussain, Z., 2022. Computational modelling of potentially emerging SARS-CoV-2 spike protein RBDs mutations with higher binding affinity towards ACE2: A structural modelling study. Computers in Biology and Medicine, 105163., **(SCI/Q1, IF: 6.69).** |
|  | Akhlaq, M., **Azad, A. K.,** Fuloria, S., Meenakshi, D. U., Raza, S., Safdar, M., & Fuloria, N. K. (2021). Fabrication of Tizanidine Loaded Patches Using Flaxseed Oil and Coriander Oil as a Penetration Enhancer for Transdermal Delivery. Polymers, 13(23), 4217. (**SCIE/Q1, IF: 4.96**)**.** |
|  | Latif, M. S., **Azad, A. K**., Nawaz, A., Rashid, S. A., Rahman, M., Al Omar, S. Y., & Abdel-Daim, M. M. (2021). Ethyl Cellulose and Hydroxypropyl Methyl Cellulose Blended Methotrexate-Loaded Transdermal Patches: In Vitro and Ex Vivo. Polymers, 13(20), 3455. (**SCIE/Q1, IF: 4.96**)**.** |
|  | Khan, T. A., **Azad, A. K.,** Fuloria, S., Nawaz, A., Subramaniyan, V., Akhlaq, M., & Fuloria, N. K. (2021). Chitosan-Coated 5-Fluorouracil Incorporated Emulsions as Transdermal Drug Delivery Matrices. Polymers, 13(19), 3345. (**SCIE/Q1, IF: 4.96**)**.** |
|  | Sudhakar, K., Fuloria, S., Subramaniyan, V., Sathasivam, K. V., **Azad, A. K.,** Swain, S. S., & Fuloria, N. K. (2021). Ultraflexible Liposome Nanocargo as a Dermal and Transdermal Drug Delivery System. Nanomaterials, 11(10), 2557. (**SCIE/Q1, IF: 5.71**)**.** |
|  | **Azad, A. K.,** Al-Mahmood, S. M. A., & Doolaanea, A. A. (2021). Development and Validation of UV-Vis Spectrophotometric Method for Estimation of Black Seeds and Peppermint Oil in Emulsion. Analytical Chemistry Letters, 11(5), 607-617. |
|  | Malviya, R., Sundram, S., Fuloria, S., Subramaniyan, V., Sathasivam, K. V., **Azad, A. K.,** & Fuloria, N. K. (2021). Evaluation and Characterization of Tamarind Gum Polysaccharide: The Biopolymer. Polymers, 13(18), 3023. |
|  | **Azad, A. K.,** Al-Mahmood, S. M. A., Kennedy, J. F., Chatterjee, B., & Bera, H. (2021). Electro-hydrodynamic assisted synthesis of lecithin-stabilized peppermint oil-loaded alginate microbeads for intestinal drug delivery. International journal of biological macromolecules, 185, 861-875. |
|  | Akhlaq, M., Azad, A. K., Ullah, I., Nawaz, A., Safdar, M., Bhattacharya, T., & Nagaswarupa, H. P. (2021). Methotrexate-loaded gelatin and polyvinyl alcohol (Gel/PVA) hydrogel as a pH-sensitive matrix. Polymers, 13(14), 2300. |
|  | Azad, A. K., Sulaiman, W. M. A. W., & Kundu, S. K. (2021). Toxicity profile of Phaleria macrocarpa (Scheff.) Boerl. fruits extract in adult male Sprague-Dawley rats. Advances in Traditional Medicine, 1-11. |
|  | Zeb, A., Ali, S. S., Azad, A. K., Safdar, M., Anwar, Z., Suleman, M., & Wei, D. Q. (2021). Genome-wide screening of vaccine targets prioritization and reverse vaccinology aided design of peptides vaccine to enforce humoral immune response against Campylobacter jejuni. Computers in Biology and Medicine, 133, 104412. |
|  | Sonju, J. J., Anwar, M. R., Azad, M. A. K., Sultana, U. H., Niloy, K. K., & Das, S. Antiviral Effects of Asian Natural Products Targeting SARS, MERS, and COVID-19. Coronaviruses. |
|  | **A*.* K. Azad**, Sinan Mohammed Abdullah Al-Mahmood, Bappaditya Chatterjee, Tarek Mohamed Elsayed and Abd Almonem Doolaanea. (2020). Encapsulation of Black Seed Oil in Alginate Beads as a pH-Sensitive Carrier for Intestine-Targeted Drug Delivery: In Vitro, In Vivo and Ex Vivo Study. Pharmaceutics, 12 (3), **(SCI/Q1, IF: 6.32)** |
|  | Hriday Bera, Yasir Faraz Abbasi, Virendra Gajbhiye, Kok Fui Liew, Pramod Kumar, Prajakta Tambe, **A. K. Azad**, Dongmei Cuna and Mingshi Yang. (2020). Carboxymethyl fenugreek galactomannan-g-poly (N-isopropylacrylamide-co-N, N′-methylene-bis-acrylamide)-clay based pH/temperature-responsive nanocomposites as drug-carriers. Materials Science and Engineering: C, 110628. **(SCI/Q1, IF:7.32), Elsevier.** |
|  | Zaidul, I. S., Fahim, T. K., Sahena, F., **A. K**. **Azad,** Rashid, M. A., and Hossain, M. S. (2020). Dataset on applying HPMC polymer to improve encapsulation efficiency and stability of the fish oil: in vitro evaluation. Data in Brief, 106111. (**ESCI/Scopus), Elsevier.** |
|  | **A. K. Azad**, and Wan Mohd Azizi Wan Sulaiman. (2020). Antidiabetic effects of P. macrocarpa ethanolic fruit extract in streptozotocin-induced diabetic rats. Future Journal of Pharmaceutical Science, 6, 2020. (**ESCI/Scopus), Springer Nature.** |
|  | Abdelkader Hassani, **A. K. Azad**, Hamid H. Enezei, Siti A. Hussain, ABM Helal Uddin. (2020). Synthesis and characterization of orotic acid loaded chitosan inclusion complex. International Journal of Drug Delivery Technology, 10(1): 1-4, **Scopus.** |
|  | Khadiza Fitri Shafira, **A. K. Azad**, Zubair Khalid Labu and ABM Helal Uddin. (2020). Extraction and Quantification of Eugenol from Clove Buds Using HPLC. Current Chromatography, 7: 1, **Non-indexed**. |
|  | Azad, A. K., Al-Mahmood, S. M. A., & Doolaanea, A. A. (2020). Sodium Alginate Beads Containing Peppermint Oil: Development and Characterization In Vitro, Ex-Vivo And In Vivo. Current Trends in Biotechnology & Pharmacy. **Scopus indexed.** |
|  | **A. K. Azad**, Doolaanea, A. A., Azizi, W. M., and Almahmud, S. (2019). Sodium alginate beads containing peppermint oil: development and characterization in vitro, in vivo and ex-vivo technique. International Journal of Allied Health Sciences, 3(3), 742-742, **Non-indexed**. |
|  | Islam, M. A., **A. K. Azad**, and Sunzida, N. K. (2019). A descriptive cross-sectional survey among the International Islamic University Malaysia student on e-waste generation and public health problem in Malaysia. Annals of Tropical Medicine and Health, 22, 146-150, **ESCI/Scopus.** |
|  | Liyana Zafirah Abul Bashar Mohammed Helal Uddin, **A. K. Azad**, Abdur Rashid Mia. A sensitive and reliable RP-HPLC method for the detection of cimetidine – a H2 receptor antagonist in human plasma. Letters in Applied NanoBioScience 8 (3), 671-674, **Non-indexed**. |
|  | A. **K. Azad**, MA Islam, NK Sunzida. Cytotoxicity study of *Basella alba* leaves extract on brine shrimp lethality bioassay and mtt assay. PharmacologyOnline 2 (2), 87-93, **Scopus.** |
|  | Zuhri, S. H. B., **A. K. Azad,** Mia, A. R., Uddin, A. H., and Nawi, M. S. B. M. (2019). Determination of cetirizine in human plasma and its validation of method using hplc technique. Journal of Drug Delivery and Therapeutics, 9(2-s), 243-247, **Non-indexed**. |
|  | A. **K. Azad,** Azizi, W. S., Ismail, A. F. H., Abbas, S. A., Uddin, J., and Labu, Z. K. (2019). Phytochemical and Toxicity Evaluation of Traditional Herb: Lagerstroemia speciosa L. (Banaba) by MCF-7 Cell Line and Brine Shrimp Lethality Bioassay. Bangladesh Pharmaceutical Journal, 22(1), 45-49**, Scopus.** |
|  | **A*.* K. Azad,** Laboni, F. R., Rashid, H., Ferdous, S., Rashid, S. S., Kamal, N., and Islam Sarker, Z. (2018). In vitro evaluation of Cuscuta reflexa Roxb. for thrombolytic, antioxidant, membrane stabilizing and antimicrobial activities. Natural Product Research, 1-4. **(SCI/Q1, IF: 2.86), Tailors and Francis.** |
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5. Fatema Tuz Zohera, **Abul Kalam Azad**, Ganeson Thanapakiam. (2023). Physicochemical Characterization of Nanomaterials, CRC Press, Taylor & Francis Group, Under review.
6. Ganeson Thanapakiam, **Abul Kalam Azad**, Fatema Tuz Zohera. (2023). Synthesis of Bionanomaterials by Using Different Extracts, CRC Press, Taylor & Francis Group, Under review.
7. **Abul Kalam Azad** (2021). Polymer composite sensors for biomedical application, Academic Press (AP), Elsevier.
8. **Abul kalam Azad**, Md Saquib Hasnain, Amit Kumar Nayak, and Garima Tripathi. (2021). Chitin and Chitosan-based nanomaterials for therapeutic applications. Academic Press (AP), Elsevier. Under review.
9. **Abul Kalam Azad**, Md Saquib Hasnain, Amit Kumar Nayak. (2021). Application of nanotheranostics in cancer. Academic Press (AP), Elsevier. Under review.
10. Mohammad A.M., Rimon P., Kashif G., Rukshana A.H., Tuhina C., Nurul A., Sahena F. **A.K. Azad**, Zaidul I.S.M. (2018). In vitro antioxidant activities of black cumin seeds oil and computational evaluation of thymoquinone and thymohydroquinone as inhibitors of EGFR tyrosine kinase, Preparation and Processing of Religious and Cultural Foods. Chapter 9, pg. 173-192, Elsevier.

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1. **Azad Abdul Kalam**. A device for making modified Babul Gum from Acacia Nilotica, **DE202022105757U1 (German Patent)**

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1. **Abul Kalam Azad** and Abd Almonem Doolaanea. Synergic effect of peppermint oil and Black Seed Oil beads in an Animal Model of Irritable Bowel Syndrome. Patent filled (MYxxx) on 20 October 2020.

**PROFESSIONAL MEMBERSHIP AND COMMUNITY INVOLVEMENT**

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| 2. | Member, Malaysian Society of Toxicology, 2018 to present. National. | 2018 |
| 3. | Member, Laboratory Animal Science Association of Malaysia, 2018 to present, National. | 2018 |
| 4. | Member, Controlled Release Society Malaysia Chapter, 2017 to present, National. | 2017 |
| 5. | Member, Herbalists Association of Australia, 2015 to present, Membership No. 155820**, (Australia**, International). | 2015 |
| 6. | Associate Member, Canadian Herbalist Association of Bristish Columbia, 2015 to present, **(Canada,** International). | 2015 |
| 7. | Member, The Commonwealth Pharmacists Association (CPA), 2015 to present, **(UK,** International). | 2015 |
| 8. | Member, Society of Toxicology, 2014 to present, **(USA,** International). | 2014 |
| 9. | Life Member, Italo-Latin American Society of Ethnomedicine (SILAE), **Italy**, 2014 to present, (International) | 2014 |
| 10 | Member, International Society for Pharmaceutical Engineering (ISPE, ID 350000), 2012 to present (International). | 2012 |

**Journal Editorial Board Member**

1. **Editor-In-Chief** (2018-present), Research and Review: Drugs and Drugs Development
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3. **Editorial Board member** (2018), Journal of Pharmacological Research and Developments

**Guest Editor**

1. Journal of Herbal Medicine, **Q2, Impact Factor 2.3, Elsevier.**

**Link:** [**https://www.sciencedirect.com/journal/journal-of-herbal-medicine/about/call-for-papers**](https://www.sciencedirect.com/journal/journal-of-herbal-medicine/about/call-for-papers)

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1. IntechOpen, United Kingdom.

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20. Journal of Pharmaceutical and Biomedical Analysis, (WoS /Scopus, Q1, IF-3.58), Elsevier.
21. Pharmaceutical Development and Technology, (WoS /Q1, IF-3.4), **Taylor and Francis.**
22. Current Computer-Aided Drug Design, (WoS /Q2, IF-1.7), **Bentham Science.**
23. Smart Science, (WoS /Q2, IF-2.3), **Taylor & Francis.**
24. ChemNanoMat, (WoS/Q2, IF-3.8), **John Wiley & Sons.**
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26. Emergent Materials, (WoS/ESCI/IF-3.8), **Springer Nature.**
27. Natural and Life Sciences Communications, (WoS /Scopus), Chiang Mai University.
28. Chemistry and Biodiversity, (WoS/Q2, IF-2.9), **John Wiley & Sons.**
29. Aquaculture Research, (WoS/Q2, IF-2), **John Wiley & Sons.**
30. Journal of Applied Pharmaceutical Science, (Scopus, Q2).
31. Journal of Computer Networks and Communications, (WoS/ESCI/Q2, IF-2), **John Wiley & Sons.**
32. Journal of Applied Polymer Science, (WoS/Q1, IF-3.12), **John Wiley & Sons.**
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4. **Scientific Committee Member:** 4th Malaysian Congress of Toxicology 2022. IIUM, Kuantan, Malaysia.
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