

Faculty Portfolio

Dr. Md Abdur Rashid

Assistant Professor
Department of Pharmaceutics, College of Pharmacy
King Khalid University
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Education:

Year of Graduation	Qualifications (Specializations if any)	University/College, Country
2011	PhD	The University of Queensland, Brisbane, Australia
2002	Bachelor of Pharmacy (B.Pharm)	Jahangirnagar University, Savar, Dhaka, Bangladesh

Professional experience:

Year	Positions	University/College, Country
November 2017-present	Assistant Professor	Department of Pharmaceutics, College of Pharmacy, King Khalid University, Abha, KSA
December 2014 - 2017	Assistant Professor	Department of Pharmaceutics, Buraidah College of Pharmacy and Dentistry, AL Qassim, KSA
Aug 2019 to onward	Visiting Researcher	Pharmacy Discipline, Queensland University of Technology (QUT), Brisbane, Australia
Jan to Apr 2009	Research Scholar	Pfizer's Material Sciences and Oral Products Dept., Pfizer Global Research & Development, Sandwich, United Kingdom

Community service activities **(Delete the excessive column/this section if necessary)**

Year	Positions & Name of the Project	University/Company, Country
2016 to 2017	Head of Department, Pharmaceutics	College of Pharmacy and Dentistry, Buraidah Private Colleges (BPC), Al Qassim, KSA
2015 to 2017	Member of Community Services Committee:	College of Pharmacy and Dentistry, Buraidah Private Colleges (BPC), Al Qassim.KSA
2015 to 2017	Member, Quality Committee	College of Pharmacy and Dentistry, Buraidah Private Colleges (BPC), Al Qassim.KSA
2022 to onward	Chair of Quality Committee, Department of Pharmaceutics	Department of Pharmaceutics, College of Pharmacy, King Khalid University, Abha, KSA
2022 to onward	Member, Quality Assurance Committee	College of Pharmacy, King Khalid University, Abha, KSA
2022 to onward	Chair, Subcommittee -1 (Course files & CLOs/PIOs reporting)	College of Pharmacy, King Khalid University, Abha, KSA
2019 to 2022	Chair, Education Services committee	Department of Pharmaceutics, College of Pharmacy, King Khalid University, Abha, KSA

2022 to onward	Member, Education Services committee	Department of Pharmaceutics, College of Pharmacy, King Khalid University, Abha, KSA
2018 to 2019	Member of Graduate Research Committee	College of Pharmacy, King Khalid University, Abha, KSA
2021 to 2022	Member of the Examination committee	College of Pharmacy, King Khalid University, Abha, KSA

Academic/research awards: (Delete the excessive column/ this section if necessary)

Year/Duration of Award	Name of the Award	University/Company, Country
June to Aug. 2019	Visiting Academic	Queensland University of Technology, Brisbane, Australia
June to Aug. 2018	Visiting Academic	RMIT (Royal Melbourne Institute of Technology), Melbourne, Australia
June 2004-2010 June	University of Queensland PhD Scholarship	The University of Queensland, Brisbane, Australia
2021-2022	Best Faculty Award	College of Pharmacy, King Khalid University, Abha, KSA
2022-2023	Best Quality Practitioner Award	Department of Pharmaceutics, College of Pharmacy, King Khalid University, Abha, KSA

Workshops/ Trainings:

Year	Title	University/Company, Country
7/11/2022	Workshop on Course Specification Updates (CS) & Notes on Course Report (CR) Writings- as coSpeaker	College of Pharmacy, King Khalid University. Abha, Saudi Arabia
01/29/2023	CLOs/PLOs Achievement Report and Analysis- as speaker on Annual Periodic Review Day	College of Pharmacy, King Khalid University. Abha, Saudi Arabia

Research interests:

- My area of research work represents a link between pharmaceutical engineering, formulation development of therapeutic drugs, its delivery and monitoring in different areas such as pulmonary diseases and cancerous diseases for targeted organs.

Research Supervision:

PhD Level

1. Ms Afrina Afrose Co-Supervisor (PhD), 2013-2015 Queensland University of technology (QUT) Brisbane, Australia

FY Project Supervision:

Bachelor level:

- Miss Afrina Afrose, Co-supervisor (2013 to 2016) PhD student at Queensland University of Technology, Brisbane, Australia.
- Miss. Heloise Dreux from CPE de Lyon, France: Co-supervisor (2009), at Pfizer Global Research and Development (PGRD), United Kingdom
- Ms Marie Chan from Ngee Ann Polytechnic Singapore:Co-supervisor (2007-2008), at The University of Queensland, Brisbane, Australia.
- To date supervised (18) final year students in the King Khalid University and Buraidah Private colleges, Kingdom of Saudi Arabia.

Teaching experience:

- Department of Pharmaceutics, College of Pharmacy, King Khalid University, Abha, Kingdom of Saudi Arabia

Assistant Professor

- Solid Dosage Forms (PHT 304), Industrial Pharmacy (PHT 406), Dermatological preparations (PHT 509), Modern Pharmaceutical Technology (PHT 510), Introduction to Modern Pharmaceutical Technology (PHT 409), Industrial Pharmacy-elective (PHT 422), both theory and laboratory classes for B.Pharm and Pharm.D programs respectively. In addition, the Graduation Research Project (PHTR 548) for B.Pharm students.
- Department of Pharmaceutics, College of Pharmacy and Dentistry, Buraidah Private Colleges (BPC), Al Qassim, Saudi Arabia

Assistant Professor

- Pharmaceutics III (PHT-322), Industrial Pharmacy (PHT-432), Cosmetology (PHT-435), Sterile Dosage Forms (PHT 434) both theory and laboratory classes and Graduation Research Project (PHTR 499) for B.Pharm students.
- Pharmacy discipline, Queensland University of Technology (QUT), Brisbane. Australia

Teaching Assistant/Tutor

- Pharmaceutics 3 (SCB 628) [Formulation of solid dosage form and quality control]: (Sem. I&II, 2007 & 2008).

- Pharmaceutics 2 (SCB 628) [Formulation of solid dosage form]: (Sem. I&II, 2007 & 2008).

- School of Pharmacy, The University of Queensland (UQ), Brisbane, Australia

Teaching Assistant/Tutor

- Pharm 2010: Quality Use of Medicine (QUM), (Sem I, 2007)

Professional membership: (limit to 5)

Year	Name of the professional Body	Role
(2003 to date)	Bangladesh Pharmacy Council (BPC)	Registered Pharmacist
(2007 to 2010)	Australasian Pharmaceutical Science Association (APSA)	Member
(2007 to 2015)	American Association Pharmaceutical Scientist (AAPS)	Member

Research grants: (limit to recent 3-5 grants)

Year/Duration of Grant	Title of the Project	Awarding Body
Duration: 2018-2019.	Researcher PI , Glucagon dry powder inhaler formulation for pulmonary delivery. King Khalid University deanship research grant, SAR 45000, Status: Closed	King Khalid University
Duration: 2020-2021	Researcher PI , Development of edoxaban (an anticoagulant) dry powder inhaler (DPI) formulation for the management of stroke and thromboembolism. King Khalid University deanship research grant, SAR 25,000, Status: Closed	King Khalid University
Duration: 2021-2022	Researcher PI , Formulation and evaluation of a lipid micro-emulsion for oral delivery of insoluble drugs. King Khalid University deanship research grant, worth SAR 150,000, Grant No. RG2/70/43, Duration: 2022-2023, Status: Completed	King Khalid University
Duration: 2022-2023	Researcher PI , Combinatorial nanomedicine approach as a synergistic intervention for amelioration of chronic disorders, worth of SAR 100,000, Grant No. RGP 1/391/44, Status: Ongoing	King Khalid University

Publications:

Book Chapter:

1. Nazrul Islam and Md Abdur Rashid (2021): Respirable controlled release polymeric colloidal nanoparticles (Chapter 23), In “Handbook of Lung Targeted Drug Delivery Systems: Recent Trends and Clinical Evidences”. Pathak and Nazrul (eds), CRC Press/Taylor and Francis, USA; Chapter 23, pp: 337-352.
<https://www.routledge.com/Handbook-of-Lung-Targeted-Drug-DeliverySystems-Recent-Trends-and-Clinical/Pathak-Islam/p/book/9780367490676>

Research Articles:

1. Abdul Jabbar, Khadija Rehman, Tooba Jabri, Tasmina Kanwal, Samina Perveen, Md Abdur Rashid, Mohsin Kazi, Saeed Ahmad Khan, Salim Saifullah and Muhammad Raza Shah (2023), Improving curcumin bactericidal potential against multi-drug resistant bacteria via its loading in polydopamine coated zinc-based metal-organic frameworks, *Drug Delivery*, 30,1,DOI: 10.1080/10717544.2022.2159587.
2. Md Abdur Rashid, Saiqa Muneer, Yahya Alhamhoom, Nazrul Islam (2022) Rapid Assay for the Therapeutic Drug Monitoring of Edoxaban, *Biomolecules* 2022, 12(4), 590; <https://doi.org/10.3390/biom12040590>.
3. Shahid Karim, Md Habban Akhter, Abdulhadi S. Burzangi, Huda Alkreathy, Basma Alharthy, Sabna Kotta, Shadab Md, Md Abdur Rashid, Obaid Afzal, Abdulmalik S. A. Altamimi and Habibullah Khalilullah, Phytosterol-Loaded Surface-Tailored Bioactive-Polymer Nanoparticles for Cancer Treatment: Optimization, In Vitro Cell Viability, Antioxidant Activity, and Stability Studies, 2022, *Gels* 2022, 8(4), 219; <https://doi.org/10.3390/gels8040219>
4. Md Abdur Rashid, White, Edward T., Howes, Tony, Litster, James D., and Marziano, Ivan. Measurement of nucleation kinetics for ibuprofen crystals from ethanol and water ethanol mixtures, 2021, *Journal of Drug Delivery Science and Technology*, doi.org/10.1016/j.jddst.2021.102587.
5. Mohammad Hossain Shariare, Tonmoy Kumar Mondal, Hani Alotheid, Md. Didaruzzaman Sohel, MD Wadud, Mohammed S Aldughaim, Md Abdur Rashid, Mohsin Kazi. (2020). Azithromycin Nanosuspension Preparation using Evaporative Precipitation into the Aqueous Solution (EPAS) Method and its Comparative Dissolution Study, *Current Pharmaceutical Analysis*, Vol 17. DOI: 10.2174/1573412917999200909145745
6. Afrose, Afrina, White, Edward T., Howes, Tony, George, Graeme, **Rashid, Md., A.,** & Islam, Nazrul (2020): Solubility of ibuprofen in aqueous ethanol at low ethanol contents. Under review, August, *Pharmaceutics*.
7. **Rashid, Md, A.,** White, E.T., Howes, T., Litster, J, D., and Marziano, I. (2020). Nucleation kinetics for ibuprofen crystals grown from ethanol and water - ethanol mixtures. Major revision, Aug, *Journal of Journal of Drug Delivery Science and Technology*.
8. **Rashid, Md, A.,** Islam, N., (2020). Development of Puerarin dry powder inhaler formulations for pulmonary delivery. Under review, September, *Pharmaceutics*.
9. Nahian Binte Aziz, Rabbee G. Mahmudunnabi, Muhammad Umer, Shayna Sharma, **Md Abdur Rashid**, Yahya Alhamhoom, Yoon-Bo Shim, Carlos Salomon and Muhammad J A Shiddiky (2020): MicroRNAs in Ovarian Cancer and Recent Advances in the Development of MicroRNA-Based Biosensors, *Analyst*, 145, 2038 - 2057.
10. **Md Abdur Rashid**, Amged Awad Elgied, Yahya Alhamhoom, Enoch Chan, Llew Rintoul, Ayman Allahham, and Nazrul Islam (2019). Excipient Interactions in Glucagon Dry Powder Inhaler Formulation for Pulmonary Delivery, doi: [10.3390/pharmaceutics11050207](https://doi.org/10.3390/pharmaceutics11050207), *Pharmaceutics*, 11(5), 207.

11. Afrose, A. White, E.T., Howes, T., George, G. **Rashid, A.** Rintoul, L, Islam, N. (2018), Preparation of ibuprofen microparticles by anti-solvent precipitation crystallization (APC) technique: characterization, formulation and in-vitro performance, <https://doi.org/10.1016/j.xphs.2018.07.030>, *Journal of Pharmaceutical Sciences*, 107, 3060-3069.
12. **Rashid, A.**, White, E.T., Howes, T., Litster, J, D., and Marziano, I. (2017). From Raw Data to Process: The Path to a Batch or a Continuous Crystallizer Design for Ibuprofen. *Organic Process Research and Development*. Volume 21, Pages 187-194. DOI: 10.1021.
13. Allahham, A., **Rashid, A.**, Fathallah, A.S., Ismail, H., Saud Abdul Aziz, A.A., and Khalaf, A. (2017). Comparing Dissolution Kinetics With Traditional *In Vitro* Study Approach for Different Commercial Brands of Ibuprofen and Paracetamol Tablets. *Asian Journal of Science And Technology*. Vol.08,4944-4948.
14. **Rashid, A.**, White, E.T., Howes, T., Litster, J, D., and Marziano, I. (2015). The Metastability and Nucleation Thresholds of Ibuprofen in Ethanol and Water-Ethanol Mixtures. *International Journal of Chemical Engineering*. Volume 2015, Article ID 560930, 7 pages, <http://dx.doi.org/10.1155/2015/560930>.

Conference attendance/presentations:

Invited Speaker

1. 'Global Summit on Chemistry and Chemical Engineering' was held during February 26-27, 2018 at Sheraton Abu Dhabi Hotel & Resort, Corniche Road, Abu Dhabi, United Arab Emirates.
2. 'International Congress and Exhibition of Pharmacy 'was held during April 3-4, 2017 at Dubai, United Arab Emirates.

Conference posters

1. Shaikh, B, **Rashid, A.**, Young, S., Allahham, A., Thrimawithana, T., (2018): Hyaluronic acid for the ocular delivery of somatostatin, *APSA (Australasian Pharmaceutical Science Association)*, Adelaide, December 2-5.
2. Walid Alhind and **Abdur Rashid** (2017). Study the Effect of Granulation on The Powder Properties of Lactose and D-Glucose in Different Ratios for Pharmaceutical Formulation. *International Congress and Exhibition on Pharmacy*, Dubai, April 3-4, UAE.
3. **Rashid, A.**, White, E.T., Howes, T., Litster, J, D., Marziano, I. and Allahham, A. (2015). Determination of Ibuprofen Content in Water-Ethanol Two Phase Separation Region at 40°C for Controlled Crystallization". *American Association of Pharmaceutical Scientist (AAPS) conference on 25 - 29 October, Florida, Orlando, USA*.