SABARNI SARKER, MPharm

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Department of Pharmacy, Jagannath University, 9-10 Chittaranjan Avenue, Dhaka-1100

RESEARCH INTEREST

My academic area of interest is in the development of novel delivery systems of drug particles and biomolecules and exploring their physicochemical parameters, pharmacodynamics, pharmacokinetics and toxicokinetics.

EDUCATION

2014-2016 Masters of Pharmacy awarded by University of Rajshahi, Rajshahi (Bangladesh)
Dissertation: *Pharmacodynamic Evaluation of Stable Solid Lipid Nanoparticles of Nifedipine*.
Supervisor: Professor Dr. Mir Imam Ibne Wahed
GPA Obtained: 3.88/4; Merit Position: First

2010-2014 Bachelor of Pharmacy (Honours) awarded by University of Rajshahi, Rajshahi (Bangladesh)
CGPA Obtained: 3.88/4; Merit Position: First

LANGUAGE PROFICIENCY

Bengali (Native). English (Overall IELTS score 8.0; taken on 24 August, 2021. TRF: 21BD005348SARS001A)

PROFESSIONAL EXPERIENCES

Sep 2020-Present Assistant Professor, Department of Pharmacy, Jagannath University.

- Teaching undergraduate and graduate courses such as, drug delivery systems, pharmaceutical biotechnology, pharmacology, etc.
- Working on the departmental project developing a pharmaceutical technology and biopharmaceuticals research laboratory.

Jul 2017-Sep 2020 Lecturer, Department of Pharmacy, Jagannath University.

Jan 2017-Jul 2017 Lecturer, Department of Pharmacy, Dhaka International University.

RESEARCH EXPERIENCES

Selected publications (More in Google scholar profile)

1. **Sarker, S.,** Ali, M.A., Barman, R.K., Noguchi, S., Iwao, Y., Itai, S. and Wahed, M.I.I., 2018. Preparation and Antidiabetic Effect of Orally Administered Nifedipine-Loaded Solid Lipid Nanoparticles in Fructose-Induced Diabetic Rats. *Pharmacology & Pharmacy*, *9*(10), p.457. (Funded by Ministry of Science and Technology, Bangladesh)

2. Hossain, M., Hasana, S., Mamun, A.A., Uddin, M., Wahed, M.I.I., **Sarker, S**., Behl, T., Ullah, I., Begum, Y., Bulbul, I.J. and Amran, M., 2020. COVID-19 outbreak: pathogenesis, current therapies, and potentials for future management. *Frontiers in Pharmacology*, *11*, p.563478.
3. Sarker, J., Das, P., **Sarker, S.**, Roy, A.K., Momen, A.Z.M.R., 2021. A Review on Expression, Pathological Roles, and Inhibition of TMPRSS2, the Serine Protease Responsible for SARS-CoV-2 Spike Protein Activation. *Scientifica*, *2021*, p.2706789.
4. **Sarker, S.** and Rafe, M.R., 2021. Formulation Development of Nifedipine through Nanotechnology: A Comprehensive Review. *Pharmaceutical Nanotechnology*, *9*(4), pp.262-270.
5. **Sarker, S**., Alam, M.M., Rahman, F., Yasmin, S., and Momen, A.Z.M.R. 2022. Variation of Electrolytes, Amino Acids and Reducing Sugars in Coconut Water of Different Ages from an Inland Region of Bangladesh. *Carpathian Journal of Food Science & Technology, 14* (2), pp.21-28. (Funded by Ministry of Science and Technology, Bangladesh)

Ongoing projects

1. **Sarker, S**., Banik, H., Sarker, M.S., Wahed, M.I.I. Comparison of Prescribing Behaviors of Private Practitioners: A Prospective Study in Southern Parts of Bangladesh.
2. **Sarker, S**., Anik, A.H., Kali, M.S.K., Barman, R.K., Wahed, M.I.I. 2022. Formulation development of ketoprofen through nanotechnology: a systematic review.

TECHNICAL SKILLS

- Adept at using Microsoft office tools such as MS Excel, MS PowerPoint.
- Familiar with Google workspace tools such as Classroom, Sheets, Docs, Forms, etc.

MISCELLANEOUS EXPERIENCES

Relevant Coursework

Undergraduate	Pharmaceutical Technology I. II and III, Biopharmaceutics I and II, Biotechnology and Molecular Biology, Medicinal Chemistry I and II, Pharmacology I and II, Organic, Inorganic and Physical Chemistry, Organic Spectroscopy.
Graduate	Advanced Biopharmaceutics and Pharmacokinetics, Cellular Immunology and Molecular Biology, Advanced Pharmaceutical Technology.

Awards

2011	Merit scholarship based on performance of 1st year of bachelor course (University of Rajshahi)
2015	National Science and Technology Fellowship for graduate research (Ministry of Science and Technology, Government of People's Republic of Bangladesh.)

NON-ACADEMIC INTEREST

Bird-watching, insect, butterfly and moth watching and documenting observations from nature.