

Dr.Shakila Rahman

Professor, Dept of Chemistry, BuEt.

Field of interest: Natural Products Chemistry:

Studies on bioactive compounds from plants: Detection, isolation, structural elucidation, bioassay, synthesis and structure-activity relationship comparison of bioactive compounds.

Research Grants Received :

Organization Offering the Grant	Project Title	Period
1.Ministry of Science and Technology,Bangladesh Secreteriate,Dhaka	Synthesis of 1,3,4-thiadiazoline derivatives and its pharmacological studies.	1999-2000
2. The Committee for Advanced Studies & Research (CASR), BUET, Dhaka.	Chemical Investigation on the Leaves of <i>Dillenia pentagyna</i> (Hargeza).	2003-2005
3. The Committee for Advanced Studies & Research (CASR), BUET, Dhaka.	Phytochemical and Microbial analysis of <i>Andrographis peniculata</i> .	2009-2010
4. The Committee for Advanced Studies & Research (CASR), BUET, Dhaka.	Phytochemical and Biological Investigation on the leaves of <i>Saurauia roxburghii</i>	2010 -2011
5. The Committee for Advanced Studies & Research (CASR), BUET, Dhaka.	Phytochemical and Pharmacological Investigation on the Roots of <i>Asparagus rosemosus</i> .	2011 -2012
6. The Committee for Advanced Studies & Research (CASR), BUET, Dhaka.	Phytochemical and Biological Investigation of <i>Vitex peduncularis</i> Wall.	2014 -2015

Supervision of Completed Graduate Research Work:

Level (Masters/ M.Phil /Ph.D) and Student's name	Thesis Title	Year
M.Phil: Abdul Hannan Khan	Chemical Investigation on the Leaves of <i>Dillenia pentagyna</i> (Hargeza)	2006
M.Phil: Raquibur Rahman	Phytochemical and Microbial analysis of <i>Andrographis peniculata</i> .	2011
M.Phil: Yunus Ahmed	Phytochemical and Biological Investigation on the leaves of <i>Saurauia roxburghii</i>	2012
M.Phil: Md. Ariful Hoque	Phytochemical and Pharmacological Investigation on the Roots of <i>Asparagus rosemosus</i> .	2014

List of Publications:

- i) N. Nahar, M. Mosihuzzaman, T. A. Chowdhury and S. Rahman: "Analysis of Water-Soluble Carbohydrates in *Abroma augusta*", *Journal of Bangladesh Academy of Sciences*, 1988,12(2), 207-210.
- ii) N. Nahar, S. Rahman and M. Mosihuzzaman: "Analysis of Carbohydrates in Seven Edible Fruits of Bangladesh", *J. Sci. Food & Agric. (England)*, 1990, 51, 185- 192.
- iii) N. Nahar, S. Rahman and M. Mosihuzzaman: "Analysis of Hemicelluloses from *Psidium Guajava* Fruit" *Journal of Bangladesh Chemical Society*, 1991, 4 (1) 31-34.
- iv) S. Rahman, N. Fukamiya, N. Ohno, H. Tokuda, H. Nishino, K. Tagahara, K. H. Lee, and M. Okano: "Inhibitory Effects of Quassinoid Derivatives on Epstein-Barr Virus Early Antigen Activation". *Chemical and Pharmaceutical Bulletin*, 1997, 45 (4) 675-677.
- v) S. Rahman, N. Fukamiya, M. Okano, K. Tagahara, and K. H. Lee: "Anti Tuberculosis Activity of Quassinoids", *Chemical and Pharmaceutical Bulletin*, 1997, 45 (9) 1527- 1529.
- vi) S. Rahman, N. Fukamiya, H. Tokuda, H. Nishino, K. Tagahara, K. H. Lee, and M. Okano: "Three Quassinoid Derivatives and Related Compounds as Antitumor Promoters from *Brucea javanica*", *Bulletin of the Chemical Society of Japan*, 1999, 72, 751-756.
- vii) Shakila Rahman: "Studies on Bioactive Quassinoids, Isolation, Synthesis, and Structure-Activity Relationships", *Memoirs of the Faculty of Integrated Arts and Sciences, Hiroshima University*, 1999, 25, 181-183.
- viii) Shakila Rahman, K. Kubota, N. Fukamiya, N. Ohno, H. Tokuda, H. Nishino, A. Iwashima, K. Tagahara, K. H. Lee, and M. Okano: "Quassinoids as Inhibitors of Epstein –Barr Virus Early Antigen Activation and Isobrucein-B as an Inhibitor of Mouse Skin Tumor Promotion", *Research Bulletin of Hiroshima Aki Women's University*, 2001 2, 69-77,.
- ix) Md. Rafique Ullah and Shakila Rahman : "Mitigation of Groundwater Arsenic Poisoning by Employing a Bio-Remediation Technique" *Oriental Journal of Chemistry* 2005, 21(2), 225-234.
- x) Md. Rafique Ullah, Shakila Rahman and Nargish Jahan Ara: "Study of Copper(II) and Nickel (II) Ternary Complexes Involving Tridentate and Bidentate Ligands", *Journal of Ultrascientist of Physical Sciences*, 2006, 18(2), 221-226.
- xi) A. Hannan Khan, Shakila Rahman and M. Shahjahan: "Structural Studies of a Hemicellulose Fraction", *Asian Journal of Chemistry*, 2007, 19(7), 5688-5694.
- xii) Y. Ahmed, S. Rahman, P. Akhtar, and F. Islam: "Isolation of Steroids from n-Hexane Extract of the Leaves of *Saurauia roxburghii*", *International Food Research Journal*,

2013, 20(5), 2939-2943.