

Saima Muzaffar

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Lecturer

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Research Interests:

- Isolation and determination of extracts and isolated components to explore the plant biodiversity against lethal diseases
- Synthetic Organic Chemistry
- Development of new and efficient synthetic approaches for improved drug targets

Teaching/Research Experience:

- Secondary School Educator in Punjab Education Department from 2002 to 2007.
- Lecturer at University of Education, Pakistan since October 2007 to till now (continue).

Academic Qualifications:

- M. Phil in Biochemistry, Bahaudin Zakariya University Multan, Pakistan. 2011-2013.
- **Title of thesis:** “Comperative Evaluation of Biochemical, Phytochemical and Antioxidant Properties of various parts of *Moringaolifera*”.
- M. Ed (Science Education), Allama Iqbal Open University. 2005.
- Master of Science (M. Sc. Chemistry), Bahaudin Zakariya University Multan, Pakistan. 1993-1995.
- M. Sc. Specialization: Biochemistry
- **Title of M. Sc. Thesis:** Chemical Analysis of Mango seed Kernel Oil.
- Bachelor of Science (B. Sc.): Botany, Zoology and Chemistry, Bahaudin Zakariya University Multan, Pakistan. 1991-1993
- Higher Secondary School Certificate (HSSC): Pre-medical, Board of Intermediate and Secondary Education Multan, Pakistan. 1989-1991
- Secondary School Certificate (SSC): Science, Board of Intermediate and Secondary Education Multan, Pakistan. 1987- 1989

Skills in Organic and Biochemistry:

- Skillful in elucidating and writing spectral data of organic compounds and papers writing
- Independent in developing new synthetic projects and strategies in drug design
- Skillful in use of Spectrophotometers: UV, infrared, atomic absorption
- Can make experimental design, collection and statistical analysis of data, controls
Reading the research literature with understanding Computer (data analysis, graphing, spreadsheet, literature search, databases)
- Isolation and/or characterization of biomolecules (amino acids, peptides, proteins, enzymes, carbohydrates, lipids, nucleic acids)

Taught and academic courses:

- Fundamentals of Organic Chemistry, Fundamentals of Physical Chemistry, Environmental Chemistry, Biochemistry, Educational Research, Cognition and Development.

Communication and other Skills:

- Fluent in English and Urdu Languages
- Hand on experience Papers Writing and Thesis Writing

Publications:

- Hina Saeed, Haq Nawaz, Muhammad Aslam Shad, Dur E Shahwar, Hina Andaleeb, Saima Muzaffar, Raheela Jabeen, Tanzila Rehman, Anam Waheed. (2019). Antioxidant Potential of Cell Wall Polysaccharides Extracted from Various Parts of *Aerva javanica* *Free Radicals and Antioxidants.*, 9(1):35-42
- Nawaz, Haq & Shad, Muhammad & Aziz, Aziz & Muntaha, Sidra & Muzaffar, Saima. (2018). Phytochemical Composition and Antioxidant Potential of Oven Heated and Microwave Treated Ginger (*Zingiber officinale* Roscoe). *Free Radicals and Antioxidants.* 8. 89-95. 10.5530/fra.2018.2.14.
- Haq Nawaz, Muhammad Aslam Shad, Saima Muzaffar. (2018). Phytochemical Composition and Antioxidant Potential of Brassica. In book: *Brassica Germplasm - Characterization, Breeding and Utilization*, Pages 7-26. DOI: [10.5772/intechopen.76120](https://doi.org/10.5772/intechopen.76120)
- Haq Nawaz, Saima Muzaffar, Momna Aslam and Shakeel Ahmad. (2018). Phytochemical Composition: Antioxidant Potential and Biological Activities of Corn. In book: *Corn - Production and Human Health in Changing Climate*, Pages 49-68. DOI: [10.5772/intechopen.79648](https://doi.org/10.5772/intechopen.79648)

