

## AISHA SIDDIQUA

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Gomal Center of Biochemistry &  
Biotechnology, Gomal University.  
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## Address

Near Commerce College, Mohallah Faqir Abad  
Dera Ismail Khan

### ACADEMIC QUALIFICATION

Dates/Years	2012
Title of Qualification	<b>Doctor of Philosophy (Biochemistry)</b> A research thesis on “ <b>Isolation, purification and characterization of acid phosphatases from Rohu (<i>Labeaeo rohita</i>) fish liver</b> ” for the fulfilment of Ph.D. degree.
Main Subjects	Biochemistry
Institution	Department of Chemistry, Gomal university, Dera Ismail Khan, KPK.
Dates/Years	2001
Title of Qualification	<b>Master of science (Chemistry) Gold Medalist</b>
Main Subjects	Chemistry
Institution	Department of Chemistry, Gomal university, Dera Ismail Khan, KPK.

### EMPLOYMENT RECORD

<b>Institution:</b>	<b>Department of Chemistry, Gomal university, Dera Ismail Khan, KPK.</b>
<b>Title of Job:</b>	Lecturer
<b>Tenure:</b>	From April 2012 to 06 April 2014
<b>Responsibilities:</b>	Teaching Biochemistry to M.Sc. and B.S. Chemistry students Conducting Practicals
<b>Institution:</b>	<b>GCBB, Gomal university, Dera Ismail Khan, KPK.</b>
<b>Title of Job:</b>	Assistant Professor
<b>Tenure:</b>	From 07 April 2014 to date
<b>Responsibilities:</b>	Teaching Biochemistry, Molecular Biology, Genetic, Nanobiotechnology, organic/Analytical chemistry to M.Phil./Ph.D. and B.S. Biotechnology Students and conducting Practicals Supervising B.S., M.Phil. students, PhD Scholars.

### AREA OF RESEARCH : Protein Chemistry, NanoBiotechnology

### RESEARCH AND PUBLICATIONS

- A. A research thesis on “**Isolation, purification and characterization of acid phosphatases from Rohu (*Labeaeo rohita*) fish liver**” for the fulfilment of Ph.D. degree.
- B. Research papers published in HEC recognized journals

#### List of Publications Dr Aisha Siddiqua

#### 1. Acid phosphatases from the liver of Labeo rohita:- Purification and characterization.

Aisha Siddiqua, Mamoona Rehmat, Asma Saeed, Shazia Amin, Rubina Naz, Mehrin Sherazi, Gul Majeed Khan, and Ahmad Saeed  
Biol. Pharm. Bull. 2008, 31, 802-808.

2. **130 kDa acid phosphatase from the liver of Labeo Rohita: Isolation, Purification and some kinetic properties**  
Aisha Siddiqua, Mehrin Sherazi, Rubina Naz, , Irshad Ali, Asma Saeed, Abdul Haleem Shah, Abdur Rahim Khan, Mushtad Ahmad, Hidayatullah Khan and Ahmad Saeed  
Jour. Chem. Soc. Pak. 2009, 31, 801-808.
3. **Purification and biochemical properties of acid phosphatase from Rohu fish liver**  
AISHA SIDDIQUA, ASMA SAEED, RUBINA NAZ, MEHRIN SHERAZI, SHAKIL ABBAS AND AHMAD SAEED  
Int. J. Agric. Biol., 2012, 14(2), 223-228.
4. **Camel liver acid phosphatases: purification and properties**  
MEHRIN SHERAZI, RUBINA NAZ, ASMA SAEED, AISHA SIDDIQUA, SHAZIA AMEEN AND AHMAD SAEED  
Jour. Chem. Soc. Pak. 2011, 33, 945-955.
5. **Isolation, purification and characterization of acid phosphatases from germinating Vigna radiate seeds**  
SADIA NADIR, ASMA SAEED, RUBINA NAZ, AISHA SIDDIQUA, MEHRIN SHERAZI, SULTAN MEHMOOD WAZIR AND AHMAD SAEED  
Jour. Chem. Soc. Pak. 2012, 34, 717-727.
6. **HPLC Method Development and Validation for the Estimation of Esomeprazole in Bulk and Pharmaceutical Dosage Form**  
Int. Jour. Drug Dev. & Res., 2012, 4(4): 252-256.
7. **Design and Evaluation of Mefenamic Acid Tablets and Effects of Co-excipients on in-vitro Release Profile.**  
Int Jour of Bio. Pharm. and Allied Sciences, 2013, 2(1): 149-157.
8. **A Validated HPLC method for the determination of Rabepazole in Bulk and pharmaceutical Dosage Form.**  
Jour of Biomedical and Pharmaceutical Research. 2013, 2(1) 151-18.
9. **Designing of Mefenamic Acid CR Tablets by Methocel E4M Premium<sup>®</sup> (Methylcellulose) Polymer and Evaluation of Pharmacokinetic Parameters**  
Int Jour of Bio. Pharm. and Allied Sciences, 2013, 2(2): 299-307.
10. **Estimation of Levetiracetam in Bulk and Pharmaceutical Dosage Form with a Newly Developed and Validated RP-HPLC method**  
Res. J. Recent Sci. 2013. vol. 2(5), 68-70.
11. **Zinc dependent acid phosphatases from Camel liver: purification and characterization**  
MEHRIN SHERAZI, ASMA SAEED, RUBINA NAZ, SHAKIL ABBAS, AISHA SIDDIQUA, SHAZIA AMEEN, AMBER ZAMAN AND AHMAD SAEED  
Jour. Chem. Soc. Pak. 2013, 35(3), 828-833.
12. **Preparation and Characterization of Stabilized Diclofenic Sodium W/O Microemulsion**  
  
Muhammad Akhlaq, Shahid Iqbal, Jahanzeb Mudassir, Aisha Siddiqua, Sohail Arshad, Mahvish Ajaz, Amanullah, Muhammad Adeel and Muhammad Imran  
Lat. Am. J. Pharm. 2018, 37(7): 1478-82.

**13. The Traditional Uses, Phytochemistry and Pharmacological Properties of Cassia fistula**

Aisha Siddiqua, Mehak Zahra , Kalsoom Begum , Muhammad Jamil.  
J. Pharm. Pharmacol. Res. 2018; 2 (1): 015-023

**14. Design, Preparation and Evaluation of Meloxicam Transdermal Patches using Flaxseed/Coriander Oils as Penetration Enhancers**

Sajid Raza, Muhammad Akhlaq, Hashmat ullah, Aisha Siddiqua , Muhammad Z. Danish , Muhammad Akram , Abid Hussain, Fahad Said Khan & Shumaila Kausar  
Lat. Am. J. Pharm. **37** (11): 2298-2311 (2018)

**15. Reversal of P-Glycoprotein Mediated Resistance in Pseudomonas aeruginosa and Escherichia coli by Various Agents**

Farheen Taimoor, Uzma Saleem, Fareeha Anwar, Bashir Ahmad, Tariq Ismail, Abid Hussain, Fahad Said Khan, Muhammad Akhlaq, Muhammad Akram & Aisha Siddiqua  
Lat. Am. J. Pharm. 38 (1): 18-23 (2019)

**16. Enhanced Solubility of Flurbiprofen Using Soluplus® and Its Controlled Release Studies**

Muhammad Akhlaq , Shah Fahad, Hashmat Ullah, Shamaila Kausar, Muhammad Akram, Fahad S. Khan, Aisha Siddiqua, Ruqia Nazir, Muslim Khan & Muhammad R.H. Sherazi  
Lat. Am. J. Pharm. 38 (4): 792-9. (2019)

**17. Development of Semi-solid Formulation for Skin Administration of Pioglitazone**

Muhammad Akhlaq, Aisha Siddiqua, Hashmat Ullah, Muhammad Akram, Muslim Khan, Ruqia Nazir, Muhammad Imran, Muhammad R.H. Sherazi.  
Lat. Am. J. Pharm. 38 (4): 771-9 (2019)

**18. Venom proteins; Prospects for anticancer therapy**

Aisha Siddiqua, Kalsoom Khattak, Safdar Nwaz.  
Pak. J. Biochem. Mol. Biol., 2019, 52(2):15-26

**19. Does Pandemics Effects Human Future? Decisive Role of COVID-19 in Human Evolution.**

Akhlaq, M., Jalil, A., Hussain, A., Siddiqua, A., Imran, M. (2022).  
In: Azar, A.T., Hassanien, A.E. (eds) Modeling, Control and Drug Development for COVID-19 Outbreak Prevention. Studies in Systems, Decision and Control, vol 366. Springer, Cham. [https://doi.org/10.1007/978-3-030-72834-2\\_31](https://doi.org/10.1007/978-3-030-72834-2_31)

**20. Synthesis and Characterization of Sulfur Nanoparticles of Citrus limon Extract Embedded in Nanohydrogel Formulation: In Vitro and In Vivo Studies**

Hadia Baloch, Aisha Siddiqua, Asif Nawaz, Muhammad Shahid Latif, Syeda Qurbat Zahra, Suliman Yousef Alomar, Naushad Ahmad and Tarek M. Elsayed  
*Gels* 2023, 9(4), 284

**Research projects of M.phill students:**

S.No	Name of Student	Session	Title of thesis
01	Kiran Aziz	2013-15	Screening of toxic chemicals in drain water in area around industries of district Dera Imail Khan.
02	Muhammad Jamil	2015-17	Isolation, Partial Purification and Biochemical Characterization of acid phosphatase from seeds and stems of <i>Carthamus Oxycantha</i>
03	Kalsoom Begum	2015-17	Genetic Analysis of Patients with Beta thalassemia in District Karak Khyber Pakhtukhwa, Pakistan
04	Safdar Nwaz	2015-17	Comparative wound healing efficacy of Aloe Vera and turmeric( <i>Curcuma longa</i> ) alone and in combination on burn wound in rabbit model
05	Saima Mashal	2016-18	Screening of Biochemical Properties and Effect of Organic (Edible) Inhibitors of Partially Purified Oxidative Enzyme From <i>solanum melongena</i> , <i>cucumis sativus</i> and <i>brassica oleracea</i>
06	Fatima	2016-18	Effect of Organic (Edible) Inhibitors and Biochemical Characterization of Partially Purified Oxidative Enzyme from <i>Punica Granatum</i> , <i>Psidium Guajava</i> and <i>Zizipus Mauritania</i>
07	Laraib Tahira	2016-18	Extension of shelf life of fruits and vegetables by preventing their enzymatic browning with edible organic coating as compared to commercial coating
08	Jan Sher Mehsood	2017-19	Evaluation of Five Different Enzymes Concentrations During Germination process in Cereals and Beans
09	Hameed Ramzan	2017-19	Comparison of efficacy of mixture of date cap and tobacco leaves powder, Silver oxide nanoparticles, tobacco leaves and date cap on full thickness surgical wound in rabbits
10	Ayesha Spogmay	2018-20	Determination of ALT and AST from liver, heart and kidney tissues of healthy and effected Bos Taurus (cow) by using a novel laboratory chemical method
11	Hadia Baloch	2020-22	Synthesis and Characterization of Sulfur Nanoparticles from <i>Citrus limon</i> and <i>Raphanus sativus</i> : In-vitro and In-vivo Studies
12	Jaweria Bakhat,	2021-23	Evaluation of Antibacterial and Antifungal Activities of Biological Synthesized Sulphur Nanoparticles from <i>Aloe barbadensis miller</i> (Aloe vera)
13	Syeda Qurbat Zahra	2020-22	Biological Synthesis of Sulphur Nanoparticles from <i>Allium cepa</i> and <i>Brassica oleracea var. capitata</i> for Wound Healing
14	Irfan Ullah	2019-21	Evaluation of Effect of Engineered MgO and ZnO Nanoparticle on Seed Germination and Growth Related Parameters of <i>Brassica nigra</i>
15	Saddique Ahmad	2018-20	Effect Of Sulphur Nanoparticles on Wound Healing Made By Acid Burn