

MATEEN ABBAS (M.Sc, PhD Chemistry)

Associate Professor,

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Teaching and Research:

Activities are focussed towards 1) teaching various undergraduate and postgraduate courses along with 2) Analysis of Mycotoxins in Food & Feed using different techniques, 3) Detoxification/Degradation of Mycotoxins using natural and synthetic sources, 4) Quantification of veterinary drug residues in Food of animal origin 5) Development and validation of HPLC methods for identification of different analytes and 6) Identification and detoxification of pesticides in Food & Feed.

Employment History:2019 – present **Associate Professor**2010 - 2019 **Assistant Professor**2008 - 2010 **Lecturer****Honors, Awards and Professional Memberships:**

- Hafiz-i-Quran
- HEC Indigenous Scholarship for Ph.D
- Member editorial board of SF journal of Pharmaceutical and Analytical Chemistry
- The Chemical Society of Pakistan
- UVAS Alumni Association

Professional Trainings:

- Three months training on the use and maintenance of High performance liquid chromatography (HPLC) for determination of pharmaceutical drugs at NIAB, Faisalabad from 28th March to 28th June, 2007.
- WHO workshop on prequalification program for medicines. 21-25th April, 2008.
- Five-day Assessor training course on ISO-17025 from 24-28th June, 2009.
- Training of High performance liquid chromatography (HPLC) conducted by H.A. Shah & Sons from 18-19th February 2010.
- Training workshops on ISO-17025:2005 from 14th February to 1st March 2011 organized by Quality Operations Laboratory, UVAS, Lahore
- "Training course on Accreditation of Halal Certification Bodies based on PS 4992, TORs of Halal Accreditation Committee (HAC)" conducted by Pakistan National Accreditation Council (PNAC) on 08th April 2014 at Marriot Hotel, Islamabad, Pakistan.
- In-Service Competency Enhancement Training for Teachers (I-SCETT), 2nd - 6th June, 2014
- Hands-on-training on CHARM Sciences products (CHARM-EZ & CHARM EZM) in September, 2017.

Research projects:

1. Higher Education Commission of Pakistan (2022-2025). Multiple occurrence of mycotoxins and its biochemical detoxification. Value **6.626 Million**. Role: **Principal Investigator**
2. Pakistan Higher Education Commission of Pakistan (2021-2023). Isolation, purification and characterization of Mycotoxins produced by Fusarium. Value **8.00 Million**. Role: **Co-PI**
3. Punjab Agriculture Research Board, Pakistan (2018-20). Prevalence and degradation of pesticide residues in feed and milk. Value **7.28 Million**. Role: **Project Manager**
4. Higher Education Commission of Pakistan (2019-21). Population pharmacokinetics of antibiotics in Pakistani population. Value **1.98 Million**. Role: **Co-PI**
5. Highnoon pharma. (pvt) Ltd. Lahore (2013-14). Bioequivalence of Sitagliptin/ metformin 50/500 mg tablets. Value 1.5 Million. Role: **Co-PI**
6. MTI Medical (pvt) Ltd. (2012-13) A clinical study on pharmacokinetic comparison of renessans. (A single dose study in animals and humans). Value **1.0 Million**. Role: **Co-PI**
7. International health & Clinical Research, USA. (2011-12). Preparation of nasal spray of Ondansetron and pharmacokinetic comparison with tablets and injection. Value **10,000 USD**. Role: **Co-PI**
8. Hilton Pharma. (pvt), Karachi. (2010-11). Bioequivalence study of Diclofenac potassium in healthy human. Value **1.0 Million**. Role: **Co-PI**

9. Hilton Pharma. (pvt), Karachi. (2008-09). Bioequivalence study of Pioglitazone and Metformin in healthy human. Value 1.5 Million. Role: Co-PI

Brief Academic/Research Summary:

Publications: **54** and International book chapter: **03**; Abstracts published in conference/symposia: **45**

Postgraduate students: PhD [**Supervised (as Co-supervisor) n=01**], M. Phil [**Supervised n=01, Co-Supervised n=03**]

Selected Peer-reviewed Publications:

1. Tehmina Anjum, Wajiha Iram, Mazhar Iqbal, **Mateen Abbas**, Waheed Akram and Guihua Li. Structure Elucidation and Toxicity Analysis of the Byproducts Formed after Biodegradation of Aflatoxins B1 and B2 Using Extracts of *Mentha arvensis*. *Toxins* 2022, 14(1), 24; <https://doi.org/10.3390/toxins14010024>
2. Koloko Brice Landry, Shafiq Azam, Sidra Rehman, Somayya Tariq, Bushra Iqbal, **Mateen Abbas**, Dieudonné Massoma Lembè, Bushra Ijaz. Phytochemical analysis of *Berberis lyceum* methanolic extract and its antiviral activity through the restoration of MAPK signaling pathway modulated by HCV NS5A. *Asian Pacific Journal of Tropical Biomedicine* 2021; 11(3): 132-140. doi: 10.4103/2221-1691.306133
3. Muhammad Muaaz Munir, Huma Rasheed, Muhammad Imran Khokhar, Rizwan Rasul Khan, Hafiz Asad Saeed, **Mateen Abbas**, Mohsin Ali, Rabiea Bilal, Hafiz Awais Nawaz, Abdul Muqteet Khan, Shaista Qamar, Syed Muneeb Anjum and Muhammad Usman*. Dose Tailoring of Vancomycin Through Population Pharmacokinetic Modeling Among Surgical Patients in Pakistan. *Frontiers in Pharmacology*, Volume 12, Article 721819, published: 11 November 2021. doi: 10.3389/fphar.2021.721819
4. Narjis Naz, **Mateen Abbas***, Anam Rubab, Kinza Kanwal. Occurrence of Aflatoxin M1 in Milk-based *Mithae* samples from Pakistan. *Open Chem.*, December 2019; 17(1): 1140–1145. DOI: <https://doi.org/10.1515/chem-2019-0123>
5. Saba Sana, Aftab Ahmad Anjum, Tahir Yaqub, Muhammad Nasir, Muhammad Asad Ali and **Mateen Abbas**. Molecular Approaches for Characterization of Aflatoxin Producing *Aspergillus flavus* Isolates from Poultry Feed. *Pakistan Veterinary Journal*. 39(02):169-174 · April 2019. DOI: 10.29261/pakvetj/2019.031
6. Nabihah Abdullah, Fizza Karamat, Shaista Qamar, **Mateen Abbas**, Abdul Muqteet Khan and Naseem Ullah. 2019. Development and validation of rp-hplc method for Simultaneous quantification of sulfacetamide sodium and Prednisolone sodium phosphate *Acta Poloniae Pharmaceutica-Drug Research*, Vol. 76, No. 1 pp. 37-47
7. Wajiha Iram, Tehmina Anjum, Rasheda Jabeen and **Mateen Abbas**. Isolation of Stored Maize Mycoflora, Identification of Aflatoxigenic Fungi and its Inhibition using Medicinal Plant Extracts. *International Journal of Agriculture & Biology*. Vol. 20, No. 9, 2018
8. Shazia Akram Ghumman, Sajid Bashir, Sobia Noreen, Abdul Muqteet Khan, Sualeha Riffat, **Mateen Abbas**. Polymeric microspheres of okra mucilage and alginate for the controlled release of oxcarbazepine: In vitro & in vivo evaluation *International Journal of Biological Macromolecules* 111 (2018) 1156–1165.
9. Wajiha Iram, Tehmina Anjum, Mazhar Iqbal, Abdul Ghaffar, **Mateen Abbas** and Abdul Muqteet Khan. Structural Analysis and Biological Toxicity of Aflatoxins B1 and B2 Degradation Products Following Detoxification by *Ocimum basilicum* and *Cassia fistula* Aqueous Extracts. *Frontiers in Microbiology*, July 2016, Volume 7, Article 1105.
10. Wajiha Iram, Tehmina Anjum, Mazhar Iqbal, Abdul Ghaffar and **Mateen Abbas**. Structural Elucidation and Toxicity Assessment of Degraded Products of Aflatoxin B1 and B2 by Aqueous Extracts of *Trachyspermum ammi*. *Frontiers in Microbiology*, March 2016, Volume 7, Article 346.
11. Wajiha Iram, Tehmina Anjum, Mazhar Iqbal, Abdul Ghaffar & **Mateen Abbas**. 2015. Mass spectrometric identification and toxicity assessment of degraded products of aflatoxin B1 and B2 by *Corymbia citriodora* aqueous extracts. *Scientific Reports*, 5: 14672.
12. **Mateen Abbas**, AM Khan, S Riffat, MY Tipu, HA Nawaz, M Usman. 2014. Assessment of sex differences in Pharmacokinetics of carvedilol in human. *Pakistan journal of pharmaceutical sciences* 27 (5), 1265-1269.
13. Wajiha Iram, Tehmina Anjum, **Mateen Abbas** & Abdul Muqteet Khan (2014). Aflatoxins and ochratoxin A in maize of Punjab, Pakistan. *Food Additives & Contaminants: Part B: Vol. 7, No. 1, 57–62*.
14. Nazia Rafique, Saadia R. Tariq, **Mateen Abbas** (2014). Effect of Fe²⁺ amendment on photodegradation kinetics of imidacloprid in moist soil. *Environ Earth Sci*. Vol. 71, Issue 6; 2869-2874.
15. **Mateen Abbas**, Abdul Muqteet Khan, Sadia Amin, Sualeha Riffat, Muhammad Ashraf and Naila Waheed (2013). Bioequivalence study of montelukast tablets in healthy Pakistani volunteers. *Pak. J. Pharm. Sci*. Vol. 26, No. 2; pp: 255-259.