

## Dr. Kashif Maqbool Khan

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Pharm D (PUCP, Pakistan), MPhil-Pharmaceutical Chem. (PUCP, Pakistan),  
PhD- Pharmaceutical / Medicinal Chemistry (CUI/LJMU-UK)  
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<http://www.uvas.edu.pk/institutes/ips/staff/kashif.htm>

### Biography

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Kashif Maqbool Khan, is a lecturer (Regular faculty) at Institute of Pharmaceutical Sciences (IPS), University of Veterinary & Animal Sciences, Lahore, Pakistan. He holds Doctor of Pharmacy (Pharm.D) from University College of Pharmacy, University of Punjab. Being a professional Pharmacist he continued his quest of knowledge and during his research in M.Phil and he developed a Simple and Rapid analytical techniques for the determination of Risperidone and its Application in commercially available dosage forms by using Schazoo Zaka (pvt) Ltd. State of art lab facility.

He did his PhD from Pharmacy department, Comsats Univeristy Islamabad, Abbottabad campus, during his PhD studies he has won International research support inactivate program (IRSIP), funded by HEC and finished his advance part of PhD at School of Pharmacy, Liverpool John Moores University, UK and produced a publishable data in peer reviewed journals.

He started his career in 2005 from Medizan laboratories (pvt) Ltd., Islamabad as Production Pharmacist from May. 2005 to Feb. 2006. Then he got opportunity to serve Surge laboratories (pvt) Ltd., distt: Sheikhpura as a Production Pharmacist from April 2006 to Dec.2006. He also served at community Pharmacy, Green plus chain pharmacy, Lahore, as a Branch Manager from Dec.2006 to May-2008. Before starting his PhD studies he has served 5 long years at Schazoo Zaka (pvt) Ltd. distt: Sheikhpura as Manager warehouse /validation from May- 2008 to Sep-2012. During his PhD he also got opportunity to server Woman Institute of Learning Sciences, Abbottabad as visiting Asst. Professor from Feb. 2013 to Feb., 2015.

During his foreign visit to Liverpool, he learned several new techniques, e.g., GC-MS, HPLC-PDA, prep-HPLC, solid-phase extraction, NMR 1D/2D, MS for isolation of secondary metabolites from natural sources, resazurin assay for antimicrobial activity, and MTT assay for assessment of cytotoxicity of plant extracts/fractions against a number of cancer cell lines, and applied successfully to obtain publishable data, which will form a major part of his PhD thesis. He also attended a MS training programme at the EPSRC National Mass Spectral Facility in Swansea University.

### Area of Interest

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- Teaching and research in the subjects of Pharmaceutical Chemistry/Medicinal Chemistry/Natural Products
- Extraction and isolation of natural products (application of SPE, HPLC,UV,IR 1D/2D NMR, LC/ESI/MS/MS, GC/EI/MS)

- Development of bioassays for screening plant extracts and isolated compounds
- Cell culturing (Human cell lines)
- Enzyme inhibition bioassays
- Stability studies of pharmaceuticals.
- Worked on various techniques to develop the formulations.
- In-vitro quality control of various dosage forms.

## Publications (JCR-International)

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1. Phytochemical profiling, antioxidant and antiproliferation potential of *Euphorbia millii* var.: Experimental analysis and in-silico validation, 2020.

Chohan TA, Sarfraz M, Rehman K, Muhammad T, Ghori MU, **Khan KM**, Afzal I, Akash MS, Malik A, Chohan TA.. Saudi Journal of Biological Sciences.

<https://doi.org/10.1016/j.sjbs.2020.08.003>

**IF:2.80**

2. UHPLC-MS phytochemical profiling, biological propensities and in-silico studies of *Alhagi maurorum* roots: a medicinal herb with multifunctional properties, 2020.

Saleem H, Sarfraz M, **Khan KM**, Anwar MA, Zengin G, Ahmad I, Khan SU, Mahomoodally MF, Ahemad N.. Drug Development and Industrial Pharmacy.3;46(5):861-8.

<https://doi.org/10.1080/14786419.2019.1590716>

**IF: 2.36**

3. Phytochemical profiling and evaluation of modified resazurin microtiter plate assay of the roots of *Trillium govanianum*, 2019

**KM Khan**, SD Sarker, GA Khan, H Saleem, SA Khan, A Mannan. **Natural product research**, 1-5,

<https://doi.org/10.1080/14786419.2019.1590716>

**IF:2.15**

4. Cytotoxicity, *In vitro* anti-Leishmanial and fingerprint HPLC- photodiode array analysis of the roots of *Trillium govanianum*, 2018.

**KM Khan**, L Nahar, A Mannan, I Ul-Haq, M Arfan, G Ali Khan, I Hussain, SD Sarker. **Natural product research** 32 (18), 2193-2201

**IF: 2.15**

5. Evaluation of resazurin microtiter plate assay and HPLC- photodiode array analysis of the roots of *Asparagus adscendens*, 2018

**KM Khan**, L Nahar, A Mannan, M Arfan, GA Khan, G Hobbs, SD Sarker. **Natural product research** 32 (3), 346-349

**IF: 2.15**

6. Determination of Risperidone in Pharmaceutical Products by Uv-Spectrophotometry and Rp-HPLC: Method Development and Validation, 2018

**KM Khan**, S. Hassan, A. Mahmood\*, K. Barkat And H. Yousaf. **International Journal of Biology, Pharmacy and Allied Sciences**, 7(3): 289-301

**IF: 0.43**

<https://ijbpas.com/pdf/2018/March/1519918362MS IJBPAS 2018 4383.pdf>

7. Liquid chromatography mass spectrometry analysis and cytotoxicity of *Asparagus adscendens* roots against human cancer cell lines, 2017

**KM Khan**, L Nahar, A Mannan, M Arfan, GA Khan, A Al-Groshi, A Evans, SD Sarker. **Pharmacognosy magazine** 13 (Suppl 4), S890

**IF: 1.31**

8. Cytotoxicity of the Roots of *Trillium govanianum* Against Breast (MCF7), Liver (HepG2), Lung (A549) and Urinary Bladder (EJ138) Carcinoma Cells, 2016

**KM Khan**, L Nahar, A Al-Groshi, AG Zavoianu, A Evans, NM Dempster,SD Sarker. **Phytotherapy research** 30 (10), 1716-1720

**IF: 4.08**

9. Fingerprint Analysis of Methanol Extract of *Trillium govanianum* by HPLC Photodiode Array Coupled with ESI-Quadrupole Time-of-Flight Mass Spectrometry., 2016.

A Mannan, **KM Khan**, M Arfan, GA Khan, SD Sarker. **In Vitro Cellular & Developmental Biology-Animal** 52, S71-S71

**IF: 1.66**

10. Phytochemical and Biological Investigations of *Asparagus adscendens*. Growing in Himalayas Region of Pakistan., 2015

A Mannan, **KM Khan**, M Arfan, Ihsan-ul-Haq, I Hussain. **in vitro cellular & developmental biology-animal** 51, S58-S58 **IF: 1.66**

11. Occurrence and abundance of antibiotics and resistance genes in rivers, canal and near drug formulation facilities—a study in Pakistan, 2013

GA Khan, B Berglund, **KM Khan**, PE Lindgren, J Fick. **PloS one** 8 (6), e62712 130 **IF: 2.74**

12. Evaluation of self-medication amongst university students in Abbottabad, Pakistan; prevalence, attitude and causes, 2013

H Ullah, SA Khan, S Ali, S Karim, A Baseer, O Chohan, SM Hassan, **KM Khan**, and G. Murtaza\*. **Acta Pol Pharm** 70 (5), 919-22 34 **IF: 0.45**

#### Citations:

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- **Citation: 234**
- **h-index: 4**
- **i10 index: 3**

#### Ongoing Project:

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1. As a Co-Investigator: Randomized Clinical Trail to investigate the clinical effect of URIPRO (A registered product of Awami labs) among patients suffering from hyperuricemia. Worth: **4.3 Million PKR**

#### Participation presentation, abstract published at National & International scientific event

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- Invited speaker in 20<sup>th</sup> International Pharmacy Conference & Exhibition “Recent Advancements, Future Trends & Challenges in Pharmacy” 27-30 October 2019. Lahore, Pakistan
- Marker profiling of the roots of *Asparagus adscendens* by using RP-HPLC-photodiode array and its cytotoxic potential. IPCE, 27-30 October 2019, Lahore, Pakistan
- Evaluation of Resazurin microtiter plat assay for solid phase extraction of roots of *Trillium govianum*. IPCE, 27-30 October 2019, Lahore, Pakistan.
- Antibacterial evaluation of *Alo vera* leaf gel extract against Pathogenic strains. IPCE, 27-30 October 2019, Lahore, Pakistan.
- 1<sup>st</sup> National Conference on current updates in Pharmacy Profession and Research, July 20-30, 2019.
- Participated in Pharma convention at University of Veterinary and Animal Sciences, Lahore, held on 11<sup>th</sup> April, 2019.
- 1<sup>st</sup> National Workshop on Sterile compounding and Aseptic Techniques-‘A special focus on Handling of Hazardous Medication’. Institute of Pharmaceutical Sciences, UVAS, Lahore, 2<sup>nd</sup> January, 2019.
- Practical synthesis of Bioactive compounds on Purine Isosteric Scaffolds. Institute of Pharmaceutical Sciences, UVAS, Lahore, 22<sup>nd</sup> Oct. 2018
- Solutions by One Agilent Roadshow. Agilent Technologies& H.A.SHAH & Sons. 17<sup>th</sup> Oct. 2017
- Participated in one week training on current Good Manufacturing Practices (cGMP) at **Ankara, Turkey** on 07-08-2017.

- New Horizons in Drug Discovery and Pharmaceutical Sciences, Department of Pharmaceutical Sciences, Abbottabad University of Science and Technology, Dec. 15, 2016
- In Services Short Term Training of University Faculty on Andragogical & Communication Skills, (1<sup>st</sup> Aug -5<sup>th</sup> Aug, 2016)
- Fingerprint analysis of Ethyl Acetate extract of *Asparagus adscendens* by High Performance Liquid Chromatography –Photodiode array detection. 37<sup>th</sup> ALL Pakistan Conference (16<sup>th</sup> and 17<sup>th</sup> Nov, 2015). Pakistan Council of Science and Industrial Research, PCSIR, LAHORE.
- Fingerprint analysis of Ethyl Acetate extract of *Asparagus adscendens* by High Performance Liquid Chromatography –Photodiode array detection/QTOF/MS. 19<sup>TH</sup> International Pharmacy Conference & Exhibition (21<sup>st</sup> April-24<sup>th</sup> April, 2016), PC, Lahore.
- Reverse Phase HPLC and Spectrophotometric methods for the estimation of Risperidone in Pharmaceutical Preparations. The 16<sup>th</sup> International Pharmacy Conference & Exhibition-2011, 28 April to 1 May 2011, Lahore.
- Development and Validated Analytical Techniques for the Identification and determination of Risperidone in Solid Dosage. The 17<sup>th</sup> International Pharmacy Conference & Exhibition-2012, 18 April to 21 May 2012, Islamabad.
- In Services Short Term Training of University Faculty on Andragogical & Communication Skills, (1<sup>st</sup> Aug -5<sup>th</sup> Aug, 2016).
- Attended Mass Spectrometry Summer School 2015 at EPSRC National Mass Spectrometry Facility, **University of Swansea**, UK, 7<sup>th</sup> July -9<sup>th</sup> July
- Attended One day workshop on 1D and 2D NMR Application at **Liverpool John Moores university**, UK, 19<sup>TH</sup> June, 2015
- Attended One day workshop on Scientific writing at Liverpool John Moores university, UK, 2<sup>nd</sup> July, 2015
- Attended 15<sup>th</sup> International Pharmacy Conference & Exhibition-2009, 5 April to 8 April 2009, Lahore.
- Attended 16<sup>th</sup> International Pharmacy Conference & Exhibition-2011, 28 April to 1 May 2011, Lahore.
- Attended 17<sup>th</sup> International Pharmacy Conference & Exhibition-2012, 19 April to 21 May 2012, Islamabad
- Attended 1<sup>st</sup> National Seminar on Use of Animals in Science-Ethical & Practical Considerations, held on January 3-4, 2011 at Pharmacy Department, University of the Punjab.
- Attended One Day Seminar on “Good Distribution Practices”, held on 22<sup>nd</sup> March 2012.
- Attended International Conference on Research Methodology : New trends and Integrative approach from Bench to Bedside, held on 6<sup>th</sup> to 8<sup>th</sup> September, 2012 at University College of Pharmacy, University of the Punjab

### Graduate Student Supervision

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- Co-supervision of 1 student (Rana Khalid) M.Phil. Pharmaceutical Chemistry UCP, PU session 2013-2015

### Professional Trainings Attended

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- Course on “Audits and auditing techniques in ISO 9000:2000, at Lahore Chamber of Commerce Industry.
- Course on ISO 14001:1996 “Internal Auditing Techniques” conducted by Moody International.
- In-house course on “Equipment Qualifications (DQ, IQ, OQ, PQ), held on 17<sup>th</sup> August, 2009.
- In-house course on “Safety Management” held on 6<sup>th</sup> June, 2009.

- In-house course on cGMP held on 13<sup>th</sup> November, 2009.
- In-house course on “Awareness of ISO 17025” held on 3<sup>rd</sup> October, 2009.
- In-house course on “Documents and Data control” held on 21<sup>st</sup> December.
- In-house course on “Personal Hygiene and Cleaning of Process Zone” held on 19<sup>th</sup> Sep., 2009.
- In-house course on “Material Issuance & Control System” held on 22<sup>nd</sup> January, 2009.

## Distinctions

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- Awarded Research Productivity Award for year 2013 –Comsats University Islamabad-ATD
- Awarded Research Productivity Award for year 2016 –Comsats University Islamabad-ATD
- Awarded International research support inactivate program (IRSIP), funded by HEC for LJMU, UK, year 2015

## Professional Experience

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- 1- Institute of Pharmaceutical Sciences, UVAS (Lecturer) October, **2015 to present**
- 2- Liverpool John Moores University, UK Research Associate (honorary) **March, 2015 to September, 2015**
- 3- Woman Institute Of Learning Sciences, ATD (Visiting AP) **Feb., 2013 to Feb., 2015**
- 4- Lead cGMP consultant Ernst & Young **June 2017-June 2018**

### Major Responsibilities:

- Attended initial meetings for the project with the EY team and the client, Primary and Secondary Healthcare Department, Government of the Punjab (P&SHCD) representatives, other government Officials and key.
  - Attended meetings / conference call with the EY team members and reviewed the planning documentation and the work program on the technical aspect of the project.
  - Visited Turkey with EY team and Govt. technical team, got current Good Manufacturing Practices training by Turkish Federal drugs regulated authorities.
  - Provided detailed technical guidance and on-going support to the project team on understanding client's and industry requirements, references to perform detailed documentation desk search and reviews.
  - Technically facilitated EY team in preparing the reporting format / template. Further served as a help desk / support function accessible to drafting of project report.
  - Detailed review of the work products prepared by the team to be delivered under this assignment, providing specific documented comments and help EY team resolve client comments on the deliverables.
  - Supervised written 300 reports to EY pertaining to relevant consultants' expertise as given in the TOR
- 5- Schazoo Zaka (Pvt) LTD. Distt: Sheikhpura  
**Designation: Manager Warehouse/Validation May- 2008 to Sep-2012**

Schazoo Zaka (Pvt) Ltd. is manufacturing medicines as per International Standards of Quality and is ISO 9001:2008, ISO 14001:2004 & ISO 17025 certified company.

### Major Responsibilities:

To ensure the effective implementation of Quality Management System (ISO 9001:2008), Environmental Management System (ISO 14001:2004) and to monitor and supervised all the operations of RM/PM Warehouse as per cGMP guidelines.

To monitor and supervise the following activities;

- Prepared quality system documentation and environmental system documentation in compliance with the International standard ISO 9001:2008 and ISO 1400:2004.
- Development and implementation of Standard Operating Procedures.
- Emergency preparedness and response.
- To Design and Development of Equipment validation (Design, installation, operational, performance qualifications) along with Quality Assurance Department.
- To ensure that cleaning and utilization log books are maintained properly.
- To ensure timely machine calibration & maintain relevant record.
- To Design and Development of Analytical method validation along with R&D Department.
- To suggest recommendations for continual improvement of EMS and QMS, and perform duties as an internal Auditor for EMS&QMS as per schedule.
- To train the new officer for on-job training.

6- Green Plus Chain Pharmacy,

**Designation: Branch Manager**

**Dec.2006 to May-2008**

**Major Responsibilities:**

- To Manage daily Pharmacy operations, including supervising a 13 member staff including 2 Pharmacist, ensure that pharmacy is fully staffed and employees are professionally trained and that quality health care is provided.
- To achieve the pharmacy's mission statement by motivating employees and facilitating community and public relation efforts, resulting in improved patient satisfaction.
- To Managed the Pharmacy Voucher Program, including budget monitoring and drug categorization.
- To Reduced expenses of Pharmacy
- Other responsibilities include: Prescription filling, Maintaining Patient medical profile, consulting M.D, Patient consultation, keeping Narcotic Log, Compounding prescription ordering and maintaining stocks , supervision of Audits.

6- Surge Laboratories (Pvt) Ltd., Distt: Sheikhpura

**Designation: Production Pharmacist**

**April 2006 to dec.2006**

**Major Responsibilities:**

- To ensure that products are produced & stored according to appropriate documentation in order to obtain required quality.
- To prepare monthly/weekly production schedule with the consultation of production manager and director technical
- To ensure timely machine calibration & maintain relevant record.
- To ensure that cleaning and utilization log books are maintained properly.
- To ensure that appropriate process validation and cleaning validations are done.
- To update, complete & check the MCD/PCD (Production record before submitting to Q.A)

7- Medizan Laboratories (Pvt) Ltd., Islamabad

**Designation: Production Pharmacist**

**May. 2005 to Feb. 2006**

**Major Responsibilities:**

- To monitor and supervise the critical manufacturing steps;
- API/Batch recovery & addition and paste making & addition
- QA sampling of IP stage
- Yield of final grain, uncoated tablets and coated tablets
- To make the arrangement for internal testing (Hardness, Friability, Blister leakage) before in-process sampling of the tablets.
- To shift a batch to F.G Store after approval of Q.C department.
- To update, complete & check the MCD/PCD (Production record before submitting to Q.A)

## Education

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### M.Phil Research Title

“Development of a Simple and Rapid Analytical Techniques for the determination of Risperidone and its Application in Commercially available Dosage Forms”

### PhD Research Title

“Phytochemical and Biological Investigations of *Asparagus adscendens* and *Trillium govanianum*”

#### Courses studied in PhD:

- Advances in Chromatographic Techniques
- Advances In Spectroscopic Techniques
- Advances in Pharmaceutical Biochemistry
- Advances in Pharmaceutical Microbiology
- Advances in Drug Discovery Process
- Drugs Discovery from Natural Origin

<b>PhD. Pharmaceutical Chemistry</b>	2012-2019	COMSATS University Islamabad-Atd. Campus, PAK/ Liverpool John Moores University, United Kingdom
<b>M. Phil -Pharmaceutical Chemistry</b>	2008-2010	Punjab University College of Pharmacy University of the Punjab, Lahore, PAK
<b>Pharm. D(4+One Year Condensed Course)</b>	2000-2005 2006- 2007	Punjab University College of Pharmacy University of the Punjab, Lahore, PAK
<b>FSc. (Pre Medical)</b>	1996-1997	Govt. Islamia College, Lahore, PAK
<b>Matriculation</b>	1994-1995	Govt. Central Model School, Lahore, PAK

## Skills and Competencies

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- Language Skills –English, Urdu, Punjabi, Hindko.
- M.S. Excel
- M.S. Word
- M.S. Power Point
- Software handling (Graph Pad prism, SPSS, Gold Coin –Material Issue And Control System , OIS ,Lotus )

- Personality - motivated, diligent, and confident.
- Good communication skills.
- Function well as both independently and as a team.
- Adapt easily to new concepts, adept at handling multiple responsibilities.

## References

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- 1- Professor Satya Sarker BPharm (Hons) MPharm PhD FHEA  
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Homepage: <http://www.ljmu.ac.uk/PBS/116547.htm>
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