Dr. Shabana Naz Shah,
B. Pharmacy, Pharm-D, M. Phil, Ph.D.

Flat # 1, 3rd Floor, Block-A, Taj Complex, M.A. Jinnah Road Karachi,
Karachi, Pakistan.
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PROFESSIONAL ASPIRATION

Looking forward for a reasonably senior position in Quality Operations in a well reputed, multinational /national Pharmaceutical Organization where I can fully utilize my experience and knowledge in a way so that the organization and myself are benefitted from each other in such a challenging environment.

ACADEMIC QUALIFICATIONS

- 2015 Pharm-D (up-gradation course) from Federal Urdu University, Karachi.
- 2011 PhD (Pharmaceutical Chemistry) from University of Karachi, Karachi.
- 2002 M. Phil (Pharmaceutical Chemistry) from University of Karachi, Karachi. (cG.P.R. "3.75")
- 1997 B. Pharmacy from University of Karachi, Karachi. (cG.P.R. "3.26").
- 1992 FSC from Board of Intermediate & Secondary Education from Karachi in 1st Div. (Grade "A").
- 1989 SSC from Board of Secondary Schools Karachi in 1st Div. (Grade "A").

ACHEIVEMENTS

- Professor of Pharmaceutical Chemistry, Faculty of Pharmacy, SBB, Dewan University. (Visiting)
- Acting as an Associate Director of Quality Operations from 1st February 2017 till 8th September 2017. (Before that period in absence).
- Officiate all matters of Technical and Quality Operations in absence of Group Director Technical and Quality Operations (Feb. 2017- Sep. 2017).
- Vice President of Pakistan Pharmaceutical Association (PPA) Sindh for 3 years (Aug.-2015 till Jul.-2018).
- Members of Board of Faculty, Faculty of Pharmacy, Ziauddin University, Karachi. (Jan.-2016 till Dec.-2018).
- Member of Editorial board of American Journal of Science and Technology.
- Member of Editorial board of International Journal of Drug Regulatory Affairs.
- Member of Editorial board of International Journal of Clinical Medicine Research (American Association for Science and Technology).
- Member of International Journal of Research in Pharmacy and Biosciences.
- Reviewer of many international journals like Medicinal Chemistry, World Journal of Pharmaceutical Sciences, IJPS, etc.
- *As a company MR; Got ISO Certifications for ISO 9001, ISO 14001 and ISO 18001 in November 2014.*
- Won three PGS Mission Awards in 2011 and one in 2012.
- Won Best Trainer Award from Global Pfizer to Pakistan Pfizer in 2011-2012.

JOB HISTORY

1st April 2017 – Till Now: **"Sr.** ***Manager Technical Service (Training, Validation & QMS Documentation)***

Martin Dow Limited

1. Ensure the training of all employees at plant according to their training needs.
2. Coaches and trains all production, quality control, quality assurance, MMD, warehouse and Engineering staff to follow cGMP in plant during entire operation.
3. Manage all validation and qualification activities at MDL plant.
4. Liaison with Regulatory officials in an effective manner to achieve company's objectives and provide assistance during any regulatory inspection of the plant.
5. To support in Internal / External Audit.
6. To support the implementation of QMS at Martin Dow Limited.
7. Assist Group Director Technical and Quality Operations in all matters.
8. Provide support to Meymac France (Martin Dow Pharmaceutical) in Transfer Technology Activities.
9. Provide support to others sisters company in QMS.
10. Work as a Management Representative for ISO certifications (ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007) of Company.
11. Coordinate for monitoring and implementation of cGMP relevant activities and documentation for all plant processes and procedures.
12. Arrange Technical Committee meetings and Quality Council Meetings as per requirement.
13. Coordinate with validation team for the validation of processes and qualification of equipment in all technical sections of plant according to cGMP guidelines.
14. Review, monitor and follow-up all validation activities vis-à-vis retrospective, concurrent and prospective with particular reference to new products and trial batches.
15. Coordinate with production and quality control department in conducting the cleaning validation and method validation studies.
16. Review all validation and qualification protocols and reports.
17. Ensure that the all SOPs present as correct version in Quality Control, Production, Packaging, New Product Development, Quality Assurance, Engineering and Warehouse.
18. Ensure that the proper storage and archiving of all the documents in the centralized area for future reviewing and referencing.
19. Conduct audit as a certified lead auditor and check the compliance of all technical functional.
20. Work with the Group Directors and Operations Managers with the goal of producing quality products at the lowest possible cost.
21. Supervise to develop Validation Protocols for Facility Qualification, Equipment Qualification, Process Validation, Cleaning Validation, Packaging Validation and Analytical Test Method Validation.
22. Supervise for preparation of Final Validation Report for Facility Qualification, Equipment Qualification, Process Validation, Cleaning Validation, Packaging Validation and Analytical Test Method Validation.

23. Monitoring performance of Validation studies in coordination with Production, Engineering and Quality Control.
24. Conduct all managerial duties including visibility studies for any new instrumentation or staff, applying company's policies and long term targets.
25. Investigate all manufacturing process problems and product failures to meet with its specification and manufacturing process requirements at the manufacturing site.
26. Assist Directors in solving problems that rise.
27. To contribute in the continuous improvements at Martin Dow Limited.
28. Involved in accreditation, implementation and maintenance of ISO certifications: ISO 9001:2008, OHSAS 18001:2007 and ISO 14001:2004.
29. Review SOP's, MO, PO, and Batch records, Site Master File, Plans, Manuals, and Regulatory Submission Files etc.
30. Team Member of Safety Health and Environment.
31. Team Member of New Product Developments.

1st Feb. 2018 – Till 04th Jun. 2018: ***Additional Charge as a Sr. QC Manager***
Martin Dow Limited

1 Plans, schedule and monitor following daily / routine QC activities.
   a. Testing and Inspection of all raw materials, packaging materials and finished products.
   b. Microbiological / chemical testing of de-ionized / city water.
   c. Monitor and review environmental bio-burden of production areas.
2 Responsible for supervising section in charges /Assist. Manager of the following sections.
   a. Raw materials.
   b. Packaging materials.
   c. Finished products / stability studies.
   d. Microbiology.
3 Procures sufficient inventory of reagents, microbiological media, HPLC columns, stationary, glassware and etc.
4 Collect / compile data for preparation of budget following strict control on all relevant expenses for the following heads:
   - Laboratory supplies
   - Consumables
5 Plans / schedules stability testing program.
6 Maintains the lab in compliance with GLPs and safety.
7 Ensures smooth functioning of QC instruments through:
   a) Periodic calibration of equipment.
   b) Planned preventive maintenance.
   c) Proper documentation.
   d) Sufficient availability of spares.
8 Prepare / Revise / Review Master Batch Record documents, Raw Materials Specification, Finished Good Specification, Stability Studies Specification, Packaging Specifications, QC SOPs.

9 Reviews historical data on SAP for finished products, raw and packaging material, de-ionized water etc.
10 Monitors microbiological testing of finished product, raw materials, environmental bioburden and de-mineralized water.
11 Organize, monitor and review on-going stability program and periodic examination / testing of retained samples and final destruction after one year of shelf life.
12 Co-ordinates for maintenance / arrangement of reference standard for analysis.
13 Provides necessary analytical support in the validation activities.
14 Arranges for timely release of all materials / products as per production / marketing requirement.
15 Coordinate for preparation of registration document of products for export purposes.
16 Approves leave plans i.e. Privilege, casual and sick etc.
17 Ensure through implementation of cGMP and safety standards in routine work.
18 Take active role in the dissemination of information on SHE issues.

24th December 2013 – 31st March 2017: **"*Manager Technical Service, Additional QC Manager (Dec.-2015 till 20th Jun.-2016), GMP Compliance Manager (Feb.-2014 till Mar.-2016), NPD Manager (May-2014 till Jun.-2015) & QA Manager for some period"***
Martin Dow Limited

7th December 2015 – 20th June2016: **"*Additional charge QC Manager***
Martin Dow Limited

22th June 2012 – 23rd December 2013: **"*Quality Assurance Manager''***
Chas A. Mendoza

1. Coaches and trains all production, quality control, quality assurance, MMD, Engineering staff to follow cGMP in plant during entire operation.

2. Supervise to develop Validation Protocols for Facility Qualification, Equipment Qualification, Process Validation, Cleaning Validation, Packaging Validation and Analytical Test Method Validation.

3. Supervise for preparation of Final Validation Report for Facility Qualification, Equipment Qualification, Process Validation, Cleaning Validation, Packaging Validation and Analytical Test Method Validation.

4. Monitoring performance of Validation studies in coordination with Production, Engineering and Quality Control.

5. Liaison with Regulatory officials in an effective manner to achieve company's objectives and provide assistance during any regulatory inspection of the plant.

6. Facilitate and support quality management in all quality activities.

7. Work with the COO, Group Director and Operations Managers with the goal of producing quality products at the lowest possible cost.

8. Conduct all managerial duties including visibility studies for any new instrumentation or staff, applying company's policies and long term targets.

9. Manage and monitor stability program for all products as per ICH guide line.

10. Investigate all manufacturing process problems and product failures to meet with its specification and manufacturing process requirements at the manufacturing site.

11. Assist COO in solving problems that rise.

12. Review and approves SOP's, MO, PO, Batch records, Regulatory Submission Files etc.

13. Conduct Audits as per cGMP guideline.

14. Team Member of EHS (First Aid; Fire Fighting; Spill Control; etc.)

15. Team Member of New Product Developments (Pharma + Herbal Division).

01st April 2010 – 04th May 2012: **"*Assistant Manager of Training, Validation and Stability"***
Pfizer Pakistan Limited

1. Coaches and trains all production, quality operations, MMD, Engineering staff to follow cGMP in plant during entire operation.

2. Developing of Master Validation Plans as per new source development, new products, etc. (Pfizer and Wyeth Plant)

3. Manage and monitor stability program for all legacies.

4. Monitoring to develop the stability indicating methods.

5. Supervise to develop Validation Protocols for Facility Qualification, Equipment Qualification, Process Validation, Cleaning Validation, Packaging Validation and Analytical Test Method Validation. (Pfizer and Wyeth Plant)

6. Supervise for preparation of Final Validation Report for Facility Qualification, Equipment Qualification, Process Validation, Cleaning Validation, Packaging Validation and Analytical Test Method Validation. (Pfizer and Wyeth Plant)

7. Monitoring performance of Validation studies in coordination with Production, Engineering and Quality Operations. (Pfizer and Wyeth Plant)

8. Prepare Annual Product Review Schedule. Reviewing / preparing Annual Product Review every year as per. (Pfizer and Wyeth Plant)

9. Team Leader of RFT (Process Capability). Every year perform process capability studies on three products.

10. Team Member of EHS (First Aid; Fire Fighting; Spill Control)

11. Team Member of New Product Development.

12. Green Belt Project Leader.

13. Team Member of Lean Lab.

14. Team Member of Internal Auditor.

15. Team Member of PAT Project.

01st April 2008 – 31st March 2010: **"*Sr. Analyst (Validation and Stability)"***
Pfizer Pakistan Limited

01st April 2003 – 31st March 2008: **"*Analyst (Validation and Stability)"***
Pfizer Pakistan Limited

20th September 1999 – 31st March 2003: **"Jr. *Analyst (Raw Material Section, Validation and Stability)"***
Parke- Davis and Co. Limited

1997-1999:

"Worked as interne trainee for six weeks in Parke-Davis & Co. Ltd."

"Worked in Quality Control Department as a Management Trainee for 1.5 year in Parke -Davis & Co. Ltd. Karachi."

Teaching Experience:

01st February2017 -Till Now:	**"*Professor in Pharmaceutical Chemistry (Visiting)*** SBB Dewan University (Karachi)
01st February2014 -31 Dec. 2014:	**"*Associate Professor in Pharmaceutical Chemistry (Visiting)*** Federal Urdu University (Karachi)
07th May 2012 – 22nd June 2012:	**"*Associate Professor in Pharmaceutical Chemistry (Head of Department)"*** Jinnah Medical & Dental College
18th August 1996 – 30th April 2003:	**Science Teacher** Scholar Coaching Centre
18th August 1996 – 30th April 2003:	**Science Teacher** Pacific College Coaching & Practical Laboratory
January 1993 – May 1996:	**Science Teacher** Ahsoba Academy School

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INSTRUMENTATION EXPERTISE

Comprehensive training and experience on ^Ultra-Fast Liquid Chromatographic (UFLC); ^High Performance Liquid Chromatography (HPLC); ^UV / VIS. Spectrophotometer; ^Atomic Absorption Spectrophotometer; ^FTIR Spectrophotometer; ^Infra Red Spectrophotometer; ^Karl – Fischer; ^Dissolution Tester; ^Disintegration Apparatus; ^Moisture Balance; ^Flame Photometer; ^Particle Size Analyzer and other instruments those are being used in Pharmaceutical Industries.

I.T. SKILLS

- ◈ Computer Communication and Networking.
- ◈ MS Excel
- ◈ MS Word
- ◈ MS Power Point
- ◈ Internet and E-mail
- ◈ LIMS Module (Spectrum)
- ◈ SAP
- ◈ Minitab Software
- ◈ QUALIMS

PUBLICATION

Authors of around **40** research publications which were published in national / international journals.

1 F.A Siddiqui, N. Sher, A. Naz, N. Hasan, **S.N. Shah** and et al., Kinetic Approach to Determine 3-Amino Methyl Hexanoic Acid in Pharmaceutical Formulation. S. Afr. J. Chem., (2019) 72; 189-194.

2 Farya Zafar, Sohail Khan, Huma Ali, **Shabana N. Shah,** et al., Biowaiver studies of newly optimized meloxicam tablets. Pak. J. Pharm. Sci., Vol.31, No.4(Suppl), July 2018, 1469-1474.

3 Huma Ali, **Shabana N. Shah**, et al., Development and Validation of HPLC Method for Escitalopram Oxalate: Application to Raw Material, Pharmaceuticals and Freeze Thaw Stability Profile. *Lat Pharm*. *Am. J. (2018*) 37(3): 553-560.

4 Farya Zafar, Huma Ali, Kashif Maroof, **Shabana N. Shah**, et al., In Vitro Release Kinetics and Stability Profile of Fast Dispersible Flurbiprofen 100 mg Tablets. *Lat Pharm*. *Am. J. (2017*) 36(1): 75-85.

5 **Shabana Naz Shah.** Development & Validation of Simple UV-Spectrophotometric Method for Quantitation of Bromazepam in API & Solid Dosage Formulation. *World Journal of Pharmaceutical & Medical Research.* (2016) 2(4); 27-31.

6 Huma Ali , Farya Zafar, **Shabana N. Shah**, et al., HPLC Method Validation for the Evaluation of Rosuvastatin: Application to Raw Material, Bulk and Pharmaceutical Products. *Lat. Am. J. Pharm*. (2016) 35(8): 1710-1718.

7 Farya Zafar, Huma Ali, Safila Naveed, **Shabana Naz Shah,** et al., Pharmacovigilance & Adverse Drug Reporting System Awareness in Pakistan; Pharmacy Students & Professional Approach & Facts. *The Professional Medical Journal.* (2016) 23(1); 85-92.

8 Maroof, Farya Zafar, Huma Ali, **Shabana Naz Shah,** et al., Development and Optimization of Fast Kashif Dispersible Flurbiprofen 100 mg Tablets by Central Composite Design. *Lat. Am. J. Pharm*. (2015) 35(4): 685-694.

9 **Shabana Naz Shah.** Development & Validation of Simple UV-Spectrophotometric Method for Quantitation of Diazepam in API & Solid Dosage Formulation. *World Journal of Pharmaceutical & Medical Research.* (2015) 1(1); 1-4.

10 Farya Zafar, Huma Ali, **Shabana Naz Shah,** et al., Quality assessment and dissolution profile comparison studies on 250 mg mefenamic acid tablets available in local market of Karachi. J. Chin. Pharm. Sci. (2015) 24(10); 673–677.

11 **Shabana Naz Shah**, Najma Sultana, Najmul Hasan, and Saeed Arayne M. "Novel RP-HPLC Method for Simultaneous Determination of Prazosin and NSAIDs in Bulk, Pharmaceutical Formulation and Human Serum". *World Journal of Pharmaceutical Research.* (2015) 4 (7); 333-350.

12 **Shabana Naz Shah.** Development and Validation of Stability Indicating Spectrophotometric method for Pyridoxine Hydrochloride in Bulk and Pharmaceutical Formulation. *The American Journal of Innovative Research and Applied Sciences.* (2015) 1(2): 75-79.

13 **Shabana Naz Shah**, Waseem Shahzad. "Manufacturing of New Formulation of Ribavirin 200mg Capsules". *Canadian Journal of Applied Sciences.* (2015) 02(05): 15-20.

14 **Shabana Naz Shah.** Development and validation of simple UV-spectrophotometric method for quantification of prazosin in API and solid dosage formulation. Innovational Journal of Quality *Assurance and Pharma Analysis.* (2015) 1(1): 110-114.

15 Najma Sultana, Saeed Arayne M and **Shabana Naz Shah**. Development and Validation for the Simultaneous Quantification of Prazosin, Amlodipine, Diltiazem and Verapamil in API, Dosage Formulation and Human Serum by RP-HPLC: Application to in vitro Interaction Studies. *Medicinal chemistry*. **(**2014), 4:12. http://dx.doi.org/1 0.4172/2161-0444.1000228

16 Safila Naveed, Huma Dilshad, **Shabana Naz Shah**, Nimra Waheed, Safeena Nazeer and Fatima Qamar. "Manufacturing of New Formulation of Gentamicin Capsule". *Indian Research Journal of Pharmacy and Science*. (2014) 1(3): 23-27.

17 **Shabana Naz Shah**, Waseem Shahzad. "Manufacturing of New Formulation of Olanzepine +Fluoxetine Capsules 6mg/25mg". *International Journal of Clinical Medicine Research*. (2014) 1(5); 172-175.

18 Asia NAZ, Huma ALI, Farya ZAFAR, **Shabana N. SHAH**, Huma SHARIF, Shehla SIDDIQUI, Zeb-un-NISA & Ghazala R. NAQVI. "Development of Spectrophotometric Method for Dissolution and In Vitro Kinetic Study of Glimepiride Tablets". *Lat. Am. J. Pharm*. (2014) 33(9): 1418-1424.

19 **Shabana N. SHAH**, Huma ALI, Farya ZAFAR & Asia NAZ. "Optimization of Mefenamic Acid 250 mg Tablets Using Response Surface Methodology". *Lat. Am. J. Pharm*. (2014) 33(8): 1341-1350.

20 Huma ALI, Muhammad H. SHOAIB, Farya ZAFAR, Rabia BUSHRA, Riffat YASMIN, **Shabana N. SHAH** & Zeb-un-NISA. "Comparative Evaluation of Diclofenac Potassium 50 mg Tablets Available in Pakistani Market". *Lat. Am. J. Pharm*. (2014) 33(8): 1273-1282.

21 Safila Naveed, Huma Dilshad, **Shabana Naz Shah,** Fatima Qamar, Nimra Waheed and Safeena Nazeer. "Manufacturing of new formulation of lincomycin capsule". *International Journal of Clinical Medicine Research*. (2014) 1(4); 128-131.

22 Najmul Hasan, Mathurot Chaiharn, Tanveer Abbas, Sikandar Khan Sherwani, Samal Mukayeva, **Shabana Naz Shah**, Abdur Raheem and Ameer Shahid. "Development and Validation of RP-LC-UV Method for Determination of Ursodeoxycholic Acid in Capsule and Human Serum". *World Appl. Sci. J.* (2014) 32 (4); 560-566.

23 Safila Naveed, **Shabana Naz Shah,** Fatima Qamar, Nimra Waheed and Safeena Nazeer. "Simple UV Spectrophotometric Assay of Lincomycin". *International Journal of Pharmaceutical Research & Drug Development.* (2014) 1(2); 10-12.

24 Safila Naveed, **Shabana Naz Shah,** Fatima Qamar, Nimra Waheed and Safeena Nazeer. "Simple UV Spectrophotometric Assay of New Formulation Gentamycin". *J. App. Pharm.* (2014) 6(4); 407-410.

25 Zafar F., Ali H., **Shah S.N.,** Bushra R., Yasmin R., Naqvi G.R. and Shareef H. "Evaluation of Release Patterns of Diclofenac Sodium Sustained Release Tablets Available in Pakistani Market". *Lat. Am. J. Pharm*. (2014) 33(5); 759-765.

26 Sultana N, Arayne MS, **Shah SN.** ''Monitoring of Prazosin with Multiple ACE Inhibitors by LC / UV in API, Pharmaceutical Dosage Formulations and Human Plasma". *Open Access Scientific Reports.* (2013) 3: 833. doi: 10.4172/scientificreports.833

27 Najma Sultana N, **Shabana Naz Shah**, Najmul Hasan and Saeed Arayne M. ''Simultaneous Determination of Prazosin and NSAIDs in Bulk, Pharmaceutical Formulation and Human Serum

by Novel RP-HPLC Method". *Open Access Scientific Reports.* (2013) 2(4): 743. doi: 10.4172/scientificreports.743

28 Hasan N, Chaiharn M, **Shah SN**, Khalid H, Jabbar A. "Simultaneous Determination of NSAID and Antimicrobial Preservatives using Validated RPHPLC Method: An Application in Pharmaceutical and Clinical Laboratories." *Pharm Anal Acta* (2013) 4: 263. doi:10.4172/2153-2435.1000263

29 Sultana N, Arayne MS, **Shah SN**. "Liquid Chromatographic Analysis of Prazosin in API, Dosage Form and Serum: Application to Drug-Metal Interaction Studies". *J Chromatograph Separat Techniq* (2013) 4: 197. doi:10.4172/2157-7064.1000197

30 Sultana N, Arayne MS, Shahzad W and **Shah SN.** "Simultaneous Determination of Ceftriaxone Sodium and H_2 Receptor Antagonists in Pharmaceutical Formulations and Human Serum By RP-HPLC". *Asian Journal of Pharmaceutical Research and Development*. (2013) 1(1); 57-65.

31 **Naz S**, Mirza AZ, Shamshad H, Shafi N, Naz A. "Physical and chemical characterization of mefenamic acid in different pharmaceutical dosage forms and their stability studies using novel RP-HPLC method". *Medicinal Chemistry Research*, (2011) pp. 1-7. doi:10.1007/s00044-011-9897-5

32 Naz A, Beg AE, Ahmed KJ, Ali H, **Naz S** and Zafar F. "Pharmacokinetics Study of Aceclofenac in Pakistani Population and Effects of Sucralfate Co-administration on Bioavailability of Aceclofenac". *The Journal of Applied Research.* (2011) 11(1); 55-63.

33 Sultana N, Arayne MS, Shehzad W, and **Naz S.** "Simultaneous Determination of Ceftriaxone Sodium and Non Steroidal Anti-Inflammatory Drugs in Pharmaceutical Formulations by RP-HPLC". *Inventi Rapid: Pharm Ana & Qual Assur.* (2010) 1(3); paqa049.

34 **Naz S**, Sultana N, and Arayne MS, Nighat S. "Simultaneous Determination of Prazosin and Calcium Channel Blockers in Raw Materials, Pharmaceutical Formulations and Human Serum by RP-HPLC" *International Journal of Pharmaceutical Research and Development. (IJPRD)* (2010) Vol:2 (Issue 9). http://www.ijprd.com/Article_No_192 IJPRD/ARTI/ACP/ pp:- (Journal).

35 Sultana N, Arayne MS, **Naz S**, Nighat S and Naveed S "Simultaneous Determination of Prazosin, Atorvastatin, Rosuvastatin and Simvastatin in API dosage Formulations and Human Serum by RP-HPLC." *J Chinese Chemical Society.* (2010) Vol:57(6), pp:1286-1292 (Journal).

36 Sultana N, Arayne MS and **Naz S**. "Simultaneous Determination of Prazosin and H_2 receptor Antagonists from Bulk Materials, Pharmaceutical Formulations and Human Serum by RP-HPLC " *Inventi Impact: Pharm Analysis & Quality Assurance*, Vol. 2010 , Article ID- " Inventi:paqa/37/10" , 2010 Available From http://www.inventi.in/Article/paqa/37/10.aspx

37 Sultana N, Arayne MS, Shafi N, Naz A, **Naz S** and Shamshad H. "RP-HPLC Method for the Simultaneous Determination of Diltiazem and Quinolones in Bulk Formulations and Human Serum." *J. Chilian Chemical Society.* (2009*)* 54, N 4, pp:358-362 (Journal).

38 Sultana N, Arayne MS, Jehan S and **Naz S** "Synthesis, Spectroscopic and Antibacterial Studies of Cefadroxil Metal Complexes Pakistan". *Journal of Biochemistry & Molecular Biology*. (2003) Vol: 36(3), pp:174-184 (Journal).

BOOKS

Author and co-author of **3** books which were published in LAP LAMBART Academic publishing GmbH and Co.KG Germany.

1 **Dr. Shabana Naz Shah** "Drug-Drug Interaction Studies of Prazosin" (2012) LAP LAMBART Academic publishing GmbH and Co.KG Germany Vol: 978-3-659-12519-5

2 **Dr. Shabana Naz Shah**, Dr. Waseem Shahzad "*In- Vitro* Drug-Drug Interaction Studies of Ceftriaxone" (2012) LAP LAMBART Academic publishing GmbH and Co.KG Germany Vol: 978-3-659-16570-2

3 **Dr. Shabana Naz Shah**, Shumaila Uzma "Synthesis of Acid Derivative of Lactose by Permanganate Ion in Acidic Medium" (2012) LAP LAMBART Academic publishing GmbH and Co. KG Germany Vol: 978-3-659-28396-3

ORAL / POSTER PRESENTATION

More than **8** oral / poster presentation were presented in national / international conferences and seminars.

1 Muhammad Saquib Qureshi, **Shabana Naz Shah,** Farya Zafar and Huma Ali (2015) Development and evaluation of Mefenamic Acid 250 mg Tablets by Central Composite Design. National Conference 2015 on advances in Health Sciences, Ziauddin University, Karachi-Pakistan. January 9-11 (2015) P-25.

2 Huma Ali, Farya Zafar, Asia Naz, and **Shabana Naz Shah** (2014) Quality Evaluation and Statistical Assessment of In Vitro Drug release Kinetics of Nimodipine 30 mg Tablets.1st National Conference on Health Quality and Advancements in Pharmacy, Faculty of Pharmacy, Federal Urdu University of Arts, Science and Technology Karachi-Pakistan. April 26 (2014).

3 Asia Naz, Hina Shamshad, Farya Zafar, Huma Ali and **Shabana Naz** (2014) Development of 3D QSAR Model for Immunomodulatory activity of Fluoroquinolone Derivatives. 1st National Conference on Health Quality and Advancements in Pharmacy, Faculty of Pharmacy, Federal Urdu University of Arts, Science and Technology Karachi-Pakistan. April 26 (2014).

4 Farya Zafar, Huma Ali, Asia Naz, and **Shabana Naz Shah** (2014) Assessment of Physicochemical Quality Attributes and Dissolution Profile Comparison of Flurbiprofen 100 mg Tablets Available in Local Market. 1st National Conference on Health Quality and Advancements in Pharmacy, Faculty of Pharmacy, Federal Urdu University of Arts, Science and Technology Karachi-Pakistan. April 26 (2014).

5 Yousra Shafiq, Rabia Bushra, Sehrish, Saba Ajaz Baloch and **Shabana Naz Shah** (2014) In-vitro susceptibility pattern of Moxifloxacin against *Staphylococcus aureus* using Sisc-Diffusion Technique. 1st National Conference on Health Quality and Advancements in Pharmacy, Faculty of Pharmacy, Federal Urdu University of Arts, Science and Technology Karachi-Pakistan. April 26 (2014).

6 **Shabana Naz Shah**, Najma Sultana and M. Saeed Arayne (2013) Development and Validation of a Rapid and Sensitive Liquid Chromatography-ultraviolet Spectrophotometry Method for the Simultaneous Determination of Prazosin and ACE Inhibitors in Human Plasma and Dosage Formulations. 4th International Symposium-cum-Training Course on Molecular Medicine and Drug Research, Karachi, Pakistan, January 7-10 (2013).

7 **Shabana Naz**, Najma Sultana, M. Saeed Arayne and Nighat Shafi (2009) Simultaneous Determination of prazosin and H_2 Receptor Antagonists from Raw Materials, Pharmaceutical Formulations and Human Serum 19th National Chemistry Conference Department of Chemistry, Kohat University of Science and Technology March 2-4 (2009).

8 Najma Sultana, M. Saeed Arayne, Hina Shamshad, Malik Asia Naz, Nighat Shafi, Zeeshan Mirza and **Shabana Naz Shah** (2009) Physical and chemical characterization of mefenamic acid in different pharmaceutical dosage forms and their stability studies using novel RP-HPLC method. 8th National Conference on Pharmacovigilance Organized by Society of Pharmacovigilance at Calcutta Institute of Pharmaceutical Technology, West Bengal University of Technology, Kolkata, INDIA, January 9-11 (2009) P-10.

CONFERENCES / SEMINAR / WORKSHOP

1. 2 Days Training on **"Data Integrity and Audit Trail"** by Kamstec International Pvt. Ltd. In **Dubai** (2018).
2. 1 Day Seminar on **"Advanced Pharmaceutical Technology & Practice to Comply with International Standards"** by Austar & Morgan Technologies Pvt. Ltd. (2018).
3. 1 Day training workshop on "**MS Word (Advanced), Excel Macros & PDF"** by Viftech in 2017.
4. 2 Days Conference **"Regulatory Education for Industry (REdI) Spring 2017**. FDA Webinar,
5. 1 Day Seminar on **"Pharmaceutical Compliance / Alleviating Risk via Automation"**
6. 1 Day **"Column Clinic Road Show 2017"** by H.A. Shah & Sons; Agilent Technologies.
7. 1 Day Discussion Forum on **"International Council for Harmonization (ICH) Q7 and Q11".**
8. 1 Day awareness session of "**QMS (ISO 9001: 2015)"** in 2017.
9. 1 Day awareness session of "**EMS (ISO 14001: 2015)"** in 2017.
10. 2 Days **"2nd *Tofflon* Machinery Exhibition & Seminar 2017", by** Gudia Tofflon.
11. 1 Day Discussion Forum on **"International Council for Harmonization (ICH) Q1.**
12. **CDER Small Business and Industry Assistance (SBIA) at CDER Microbiology Issues: Adeeper Dive.** FDA Webinar.
13. 1 Day Discussion Forum on **"Pharmaceutical Engineering Forum"**.
14. **Computer System Validation Basics.** Praxis Life Sciences Software Quality & Validation.
15. 1 Day **"Effective Presentation Skills by Octara"**.
16. **Electronic Submission Requirements for ANDAs: Are you Ready**, CDER Small business and Industry Assistance (SBIA). FDA Webinar.
17. 1 Day **"*Quality Leader Development Summit 2016"***.
18. **Study Data Standard in eCTD**, CDER (SBIA). FDA Webinar.
19. **Regulatory Education for Industry (REdI) Fall 2016**, CDER (SBIA). FDA Webinar.
20. 1 Day **"*GS1 Healthcare Training Workshop*"**.
21. **Submitting Risk Evaluation and Mitigation Strategies (REMS) in Structured Product Labelling (SPL) Format**, CDER (SBIA). FDA Webinar.
22. **Electronic Submission of Drug Master Files (DMFs)**, CDER Small business and Industry Assistance (SBIA). FDA Webinar.
23. **Regulatory Education for Industry (REdI)**, Pharmaceutical Quality Symposium 2016, CDER (SBIA). FDA Webinar.
24. 1 Day **"Annex SL Module 1- Auditor Transition Course"** by SGS.
25. 1 Day Seminar on **"Perspective and Dimensions of Drug Product Bioequivalence in 21st Century"**.

26. 2 Days **"*Tofflon* Machinery Exhibition & Seminar"**.
27. 2 Days **"Awareness & Implementation training based upon ISO-17025"**.
28. 1 Day workshop on the **"Manufacturing of Sterile Products and Overview on Conventional USP 2015-2020"**.
29. 2 Days workshop on the "**Proactive GCC Quality Compliance Workshop",** Sheraton Dubai Creek Hotel & Towers, Dubai UAE, March 18" UAE.
30. Seminar on "3rd International Drug Quality Conference, **Importance of New Product Development in Pharmaceuticals**.
31. A (5-Days) **Quality Management Systems**, Auditor/Lead Auditor training Course (IRCA Registered-IRCA Certified No: A-17038).
32. **Interactive Management** Workshop (2 Days).
33. Seminar on "International Pharmacy Conference on "**Emerging Fields of Pharmacy"**.
34. Seminar on "1st Dr. Pharm Seminar, **Modern Solid Dosage Manufacturing, In The 21st Century for the Pakistan Market**.
35. Seminar on "6th National Pharmacognosy Conference on **Healthcare Concerns and Phytotherapies**.
36. Two days workshop "**First Aid Training**.
37. Seminar on "1st National Conference on **Health Quality and Advancements in Pharmacy**.
38. Seminar on "**Nanotechnology, The Power of Small**.
39. Seminar on "4th International Symposium-Cum-Training Course on **Molecular Medicine and Drug Research**.
40. Training on **Certified Six Sigma** (Green Belt) (2 weeks training) from **Singapore**.
41. Seminar on "19th National Chemistry Conference Department of Chemistry.
42. **Communication Skill** (2 Days).
43. Seminar on "8th National Conference on **Pharmacovigilance**.
44. **Initiative/Drive & Creativity** (2 Days).
45. One Day Workshop on "**Nicolet FT-NIR Antaris MDS System and Result Software"**.
46. Two Days Workshop on "**Yellow Belt**".
47. One Day Workshop on "**RFT Method 1**".
48. Two Days Workshop on "**Introduction to Minitab"**.
49. Ten Days Workshop on "**Microsoft Excel 2003 Level I**".
50. One Day Workshop on "**Basic Fire Safety Course**".

EXTRA CURRICULUM

Public Speaking; Conduct Training; Conduct GMP Internal Audit; Conduct ISO Internal Audit, Professional Research in different Topics & Book Reading.

REFERENCE

References will be furnished as and when required.