

Dr. Pervaiz A Shah

(H.E.C Approved Supervisor)

Total Experience

More than 31 Years

Assistant Professor
University College of Pharmacy, Old Campus
University of The Punjab, Lahore, Pakistan
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Date of Birth: 25 Dec.1965

SUMMARY

A positive thinking, mature, enthusiastic and a reliable gentleman. Ever ready for any assigned task. A challenging & demanding environment favors my professional capabilities. My interest in the field of research and science developed whilst my pharmacy degree. Apprenticeship and work experience in pharmaceutical marketing provided me an opportunity to clear my concepts and boosted my interest and confidence in this field. During my PhD and M. Phil and research projects I have learned the necessary expertise of up-to the minute tools of drug development. I have worked on various characterization techniques including X-ray diffraction techniques, HPLC, Mass Spectroscopy and IR, etc. Looking forward for an opportunity to make a major contribution to higher education institutes in Pakistan. For the past few years actively involved in research, teaching and other academic activities at undergraduate as well as postgraduate level. I am also involved in various managerial tasks at department and University level.

EDUCATION

No	Degree	University/ Institute/ Board	Starting date	End Date	Major Achievements
1	Doctor of Philosophy (PhD)	University of the Sargodha, Sargodha, Pakistan	Feb 2010	May 2013	<ul style="list-style-type: none">• Degree awarded with merit• CGPA 3.54
2	Master of Philosophy (M.Phil)	University of the Punjab, Lahore, Pakistan	Aug 1992	Aug1994	<ul style="list-style-type: none">• Degree awarded with Merit• Distinction in Research Project• First ever pharmaceutically used of naturally available Almond gum
3	Bachelors of Pharmacy (B-Pharm)	University of the Punjab, Lahore, Pakistan	Sep 1986	Sep 1990	<ul style="list-style-type: none">• Throughout first Division• Distinction in Islamyat and Pak studies (2rd Prof)
4	Higher Secondary School Examination (FSc) (PreMedical)	Board of Intermediate and Secondary Education Bahawalpur	March 1981	March 1983	<ul style="list-style-type: none">• First Division• Science pre medical
5	Secondary School Examination (Matric Science)	Board of Intermediate and Secondary Education Bahawalpur	March 1978	March 1980	<ul style="list-style-type: none">• First Division (Grade A)• Science

EXPERIENCE

TOTAL EXPERIENCE = 31 years 03 months and 3 days

TEACHING EXPERIENCE = 15 years 03 months 10 days

PROFESSIONAL EXPERIENCE = 15 years 11 months 23 days

POST PHD = 05 years 01 month

No	Organization	Position	Time Duration	Total Experience Years/Months/Days
1	Punjab University College of Pharmacy, University of the Punjab Lahore	Assistant Professor	26-02-2016 to 26-03-2021	05years 01 month /00
2	Punjab University College of Pharmacy, University of the Punjab Lahore	Assistant Professor	06-10-2013 to 25-02-2016	02 years 04 months/21 days
3	Punjab University College of Pharmacy, University of the Punjab Lahore	Lecturer (permanent)	19-05-2009 to 05-10-2013	04 years 04 months/17 days
4	Punjab University College of Pharmacy, University of the Punjab Lahore	Assistant Professor (on contract)	28-03-2008 to 18-05-2009	01 year 01 months 21days
5	Punjab University College of Pharmacy, University of the Punjab Lahore	Lecturer (part time)	01-08-2007 to 27-03-2008	07 months 26 days
6	Lahore College of Pharmaceutical science	Assistant Professor	02-02-2007to 27-07-2007	05 months 25 days
7	Pfizer Global Pharmaceutical company	District sales manager	07-07-1992 to 23-01 -2007	14 years-06 months 16 days
8	Wellcome Pakistan Pharmaceutical company	Territory Sales officer	01-09-1990 to 08-02-1992	01 year 05 months/07 days

PAPER PUBLISHED	72
PAPER ACCEPTED	04
IMPECT FACTOR	100.707

RESEARCH PUBLICATIONS

- 1) **Pervaiz Akhtar Shah**^{1*}, Haroon Khalid Syed², Abdul Rehman Sohail¹, Areeba Pervaiz¹, Muhammad Shahid Iqbal³, Kai Bin Liew⁴, Salah-Ud-Din Khan⁵, Haider Abbas Zaidi¹
Comparison of solvent evaporation and ultrasonic-assited production methods in the development of nimesulide nanosponges and their characterization. Tropical Journal of Pharmaceutical Research. June 2022;21(6):1139-1145 ISSN:1596-5996(print)1596-9827(electronic) <http://dx.doi.org/10.4314/tjpr.v21i6.1>
- 2) Sana JAVED, Nasir ABBAS, Amjad HUSSAIN, **Pervaiz Akhtar SHAH**, Syed Atif RAZA, Rahat SHAMIM & Nadeem Irfan BUKHARI * Rapid Disintegrating Orodispersible Films of Sumatriptan Succinate and Prochlorperazine Using Solvent-Casting Methods - A Factor Study Latin American Journal of Pharmacy (formerly Acta Farmacéutica Bonaerense) Lat. Am. J. Pharm. 41 (1): 244-53 (2022)
- 3) Rabia MUNIR¹, Usama MASHOOD², Sajid ASGHAR¹, Ikram Ullah KHAN¹, Muhammad IRFAN¹, Sana INAM¹, Nayyer ISLAM^{1,3}, Nyla AJAZ^{1,4}, Shahzadi Filza HASSAN¹, Saniya ANWAR¹, **Pervaiz A. SHAH**⁵, Muhammad SALEEM⁵, Muhammad Shahid IQBAL⁶ & Haroon Khalid SYED¹ Solubility and Dissolution Enhancement of Dexibuprofen by Inclusion Complexation with Cyclodextrin *Latin American Journal of Pharmacy (formerly Acta Farmacéutica Bonaerense) Lat. Am. J. Pharm. 41 (1): 235-43 (2022)
- 4) Ayesha Tanveer¹ Khalid Hussain¹ Hirra Tasneem¹ Iqra Arif¹ Memoona Rashid² Nasir Abbas¹ Rahat Shamim¹ • **Pervaiz A. Shah**¹ Nadeem Irfan Bukhari¹ Prediction of CYP-mediated silybin A-losartan pharmacokinetic interactions using physiological based pharmacokinetic modeling Journal of Pharmacokinetics and Pharmacodynamics <https://doi.org/10.1007/s10928-022-09804-0> Received: 26 July 2020 / Accepted: 10 January 2022 The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature 2022
- 5) Junaid AHMAD¹, Sajid ASGHAR¹, Muhammad ASIF², Muhammad IRFAN¹, Ikram Ullah KHAN¹, Waqas Haider KHAN¹, **Pervaiz A. SHAH**³, Muhammad SALEEM³, YUSRA⁴, Muhammad Shahid IQBAL⁵ & Haroon Khalid SYED¹ Encapsulation of Piroxicam in Microemulsion to Avoid Gastric Irritation *Latin American Journal of Pharmacy (formerly Acta Farmacéutica Bonaerense) Lat. Am. J. Pharm. 41 (3): 666-75 (2022)
- 6) Muhammad IRFAN¹, Mohsin ALI², Razia NOREEN³, Nosheen ASLAM³, Muhammad IRFAN¹, Um-e-AMIN⁴, Haroon Khalid SYED^{1*}, Ikram Ullah KHAN¹, **Pervaiz A. SHAH**⁵, Muhammad Shahid IQBAL⁶, Maheen JAMIL⁷ & Sajid ASGHAR^{*1}

Simultaneous Determination of Doxycycline Hyclate and Fusidic Acid by RP-HPLC in Bulk and Microemulsion Formulation Latin American Journal of Pharmacy (formerly Acta Farmacéutica Bonaerense) Lat. Am. J. Pharm. 41 (4): 795-803 (2022)

- 7) Rabia Munir ¹, Abdul Hadi ², Salah-ud-Din Khan ³, Sajid Asghar ¹, Muhammad Irfan ¹, Ikram Ullah Khan ¹, Misbah Hameed ⁴, Sana Inam ¹, Nayyer Islam ^{1,5}, Shahzadi Filza Hassan ¹, Memoona Ishtiaq ¹, **Pervaiz Akhtar Shah** ⁶, Muhammad Shahid Iqbal ⁷, Haroon Khalid Syed ^{1,*}, Ahmed Khames ⁸ and Mohammad A. S. Abourehab ^{9,10}
Solubility and Dissolution Enhancement of Dexibuprofen with Hydroxypropylbetacyclodextrin (HPβCD) and Poloxamers (188/407) Inclusion Complexes: Preparation and In Vitro Characterization. Polymers 2022, 14, 579. <https://doi.org/10.3390/polym14030579> Received: 30 December 2021 Accepted: 27 January 2022 Published: 31 January 2022
- 8) Sana Javed^{1,2}, Amjad Hussain¹, **Pervaiz Akhtar Shah**¹ Saiqa Ishtiaq¹, Ejaz Ali¹, Nasir Abbas¹ and Nadeem Irfan Bukhari^{1*} Simultaneous quantification of sumatriptan succinate and prochlorperazine maleate in orodispersible films using two validated UV-spectroscopic methods doi.org/10.36721/PJPS.2022.35.1.SUP.183-194.1. Pak. J. Pharm. Sci., Vol.35, No.1(Suppl), January 2022, pp.183-194 183
- 9) Ayesha Tanveer¹, Khalid Hussain¹, Hirra Tasneem¹, Iqra Arif¹, Memoona Rashid², Nasir Abbas¹, Rahat Shamim¹, **Pervaiz A Shah**¹, Nadeem Irfan Bukhari³ Prediction of CYP-mediated silybin A-losartan pharmacokinetic interactions using physiological based pharmacokinetic modeling. Journal of Pharmacokinetics and pharmacodynamics 21 Jan 2022 PMID: 35061161. DOI: 10.1007/s10928-022-09804-0
- 10) Misbah Hameed ^{1,2}, Akhtar Rasul ¹, Sumera Latif ², Maria Rasool ³, Ghulam Abbas ¹, Muhammad Irfan Siddique ⁴, Muhammad Khurram Waqas ⁴, Ikram Ullah Khan ¹, Abid Mehmood Yousaf ⁵, **Pervaiz Akhtar Shah** ⁶ Fabrication of moxifloxacin HCl-loaded biodegradable chitosan nanoparticles for potential antibacterial and accelerated cutaneous wound healing efficacy Journal of microencapsulation. <https://doi.org/10.1080/02652048.2021.2019332> PMID: 34919007
- 11) Syed Muzzammil Masaud¹, Ghulam Abbas Miana¹, Taha Nazir², Saeed Ur Rasheed Nazir³, Misbah Sultana⁴, Safia Sultana Munir⁵, Humayun Riaz⁶, **Pervaiz A Shah**⁴ and Haider Abbas Zaidi⁷ ANESTHETIC AND ANTIBACTERIAL ACTIVITY OF KETAMINE DERIVATIVES SYNTHESIZED BY MANNISH REACTION <http://dx.doi.org/10.21065/1925-7430.11.1CJAS2021>
- 12) Abul Raziq¹, Syed Umer Jan¹, Rahman Gul¹, Yousaf Khan¹ Tajala Aman², **Pervaiz Akhtar Shah**⁴, Relative Comparison of Stability and Degradation of Methylcobalamin tablets of different brands at different storage setting. International Journal of applied Pharmaceutics ISSN-0975-7058 VOL13, Issue 3, 2021
- 13) Misbah Hameed ¹, Akhtar Rasul ^{1,*}, Muhammad Khurram Waqas ², Malik Saadullah ³, Nosheen Aslam ⁴, Ghulam Abbas ¹, Sumera Latif ⁵, Hafsa Afzal ⁵, Sana Inam ¹ and **Pervaiz Akhtar Shah** Formulation and Evaluation of a Clove Oil-Encapsulated Nanofiber Formulation for Effective Wound-Healing Molecules 2021, 26, 2491. <https://doi.org/10.3390/molecules26092491>. (IF 3.267) HEC HRJS W

- 14) **Pervaiz Akhtar Shah**^{1*}, Haider Abbas Zaidi¹, Haroon Khalid Syed^{2*}, Huma Ishfaq¹, Rao M Altaf¹, Areeba Pervaiz¹, Salah-Ud-Din Khan³, Muhammad Shahid Iqbal⁴ and Javed Khan⁵ Formulation Development and In vitro characterization of Triple Layer Tablet containing Amlodipine Besylate, Rosuvastatin Calcium and Hydrochlorothiazide doi.org/10.36721/PJPS.34.02.0.SUP.001-10.1 2021 **IF 0.562 (HEC HJRS X)**
- 15) Ejaz Ahmad¹, Muhammad Jahangir¹, Saiqa Ishtiaq², Hafiz Muhammad Faizan Haider¹, **Pervaiz Akhtar Shah**², Nadeem Irfan Bukhari² Carbamazepine Shows Plasma and Tissue Pharmacokinetic Interactions with *Ajuga bracteosa* Extract in Rats. *Planta Med Int Open* 2021; 8: e10–e18 DOI 10.1055/a-1375-6570 ISSN 2509-9264 (**IF 2.687 HEC HJRS W**)
- 16) Tahir MAHMOOD 1, Rai M. SARFRAZ * 1, Muhammad R. AKRAM 1, Asmara ISMAIL 1, Muhammad N. QAISAR 1 & **Pervaiz A. SHAH** 2: Synthesis of CS-g-poly(MAA) Nanogels Carrier System to Improve the Solubility of Olmesartan Medoxomil and its In Vitro Evaluation: *Latin American Journal of Pharmacy (formerly Acta Farmacéutica Bonaerense)* Lat. Am. J. Pharm. 40 (5): (2021) **IF 0.240 (HEC HJRS Y)**
- 17) **Pervaiz Akhtar Shah**^{*}, Tahir Khan, Haroon Khalid Syed, Nadia Qamer, Areeba Pervaiz, Haider Abbas Zaidi, Muhammad Shahid Iqbal, Salah-Ud-Din Khan. Formulation and Evaluation of Combined Tablet of Drotaverine-HCl and Piroxicam. *Latin American Journal of Pharmacy*. Lat.Am.J.Pharm.40 (5) 2021 (**IF: 0.240 (HEC HJRS Y)**)
- 18) **Pervaiz Akhtar SHAH**¹, Haroon Khalid SYED², Areeba PERVAIZ¹, Umar Farooq GOHAR³, Muhammad SALEEM⁴, Muhammad Shahid IQBAL^{5,*}, Kai Bin LIEW⁶, Salah-Ud-Din KHAN⁷ & Fahad I. AL-SAIKHAN ⁵ “Development and Validation of In Vitro-In Vivo Correlation (IVIVC) Model for Microparticulate Lornoxicam Loaded Controlled Release Tablet” *Latin American Journal of Pharmacy (formerly Acta Farmacéutica Bonaerense)* Lat. Am. J. Pharm. 40 (2): 370-77 (2021) **IF 0.240 (HEC HJRS Y)**
- 19) Muhammad Shahid Iqbal¹, **Pervaiz Akhtar Shah**², Tahir Khan³, Haroon Khalid Syed⁴, Nadia Qamer², Areeba Pervaiz², Haider Abbas Zaidi⁵, Salah-Ud-Din Khan⁶ Rapid Analytical Method Development and Validation of Combined Tablet of Drotaverine Hydrochloride and Piroxicam *Asian Journal of Pharmaceutical science*. vol 15(1)2021
- 20) Mujeeb Ur Rehman^{*1}, Akhtar Rasul^{*1}, Muhammad Imran Khan², Maria Rasool³, Ghulam Abbas¹, Feroza Masood⁴, Imran Nazir⁵, Muhammad Iqbal⁶, Nayyer Islam¹, Misbah Hameed¹ and **Pervaiz Akhtar Shah**⁷ “ Oral bioavailability studies of niosomal formulations of Cyclosporine A in albino rabbits”. *Pakistan Journal of Pharmaceutical Science*. Doi.org/10.36721 /PJPS.2021.34.1(Sup) 313-319.1 **IF 0.562 (HEC HJRS X)**
- 21) Sheikh Abdur Rashid, Sajid Bashir, Hashmat Ullah, Kifayat ullah Shah, Daulat Haleem Khan, **Pervaiz Akhtar Shah**, Muhammad Zeeshan Danish, Muhammad Hashim Khan, Saima Mahmood, Muhammad Sohaib, Malik Muhammad Irfan and Adnan Amin Development characterization, and Optimization of Methotrexate-olive oil nano-emulsion

for topical application. The Pakistan Journal of Pharmaceutical Sciences (pakjps@hotmail.com) doi.org/10.36721/PJPS.2021.34.1.SUP.205-215.1 **IF 0.562 (HEC HJRS X)**

- 22) Madiha Aziz, Alamgeer, Nabeela Noor, Muhammad Saleem, Hafiz Muhammad Irfan, Nasser Hadal Alotaibi, Aameeduzzafar, Syed Nasir Abbas Bukhari and **Pervaiz Akhtar Shah** “Phytochemical analysis and hypotensive potential of Teucrium stocksianum Boiss. The Pakistan Journal of Pharmaceutical Sciences (pakjps@hotmail.com) doi.org/10.36721/PJPS.2020.33.6.SUP.2707-2713.1 **IF 0.562(HEC HJRS X)**
- 23) Mohammad Saleem, Anam Iftikhar, Muhammad Asif, Khalid Hussain, Alamgeer, **Pervaiz Akhtar Shah**, Ammara Saleem, Muhammad Furqan Akhtar, Muhammad Tanzee, Hafza Sidra Yaseen “Asphodelus tenuifolius extracts arrested inflammation and arthritis through modulation of TNF α , NF κ B, ILs, and COX 2 (activities in in vivo models” Inflammopharmacology <https://doi.org/10.1007/s10787-020-00761-z> (2020) **IF 4.263 (HEC HJRS W)**
- 24) Kashif Imran, Haroon Khalid Syed, Sajid Asghar, Muhammad Irfan, Malik Saad Ullah, Ikram Ullah Khan, Muhammad Shahid Iqbal, **Pervaiz A Shah**, Ikrima Khalid, Umar Farooq, “Validated RP-HPLC method for the simultaneous determination of glucosamine sulphate and curcumin in cream formulation: A novel stability-indicating study” Tropical Journal of Pharmaceutical Research November 2020; 19 (11): 2415-2424 ISSN: 1596-5996 (print); 1596-9827 (electronic) © Pharmacotherapy Group, Faculty of Pharmacy, University of Benin, Benin City, 300001 Nigeria. Available online at <http://www.tjpr.org> <http://dx.doi.org/10.4314/tjpr.v19i11.24> **IF 0.504(HEC HJRS Y)**
- 25) Akhtar Rasul, Muhammad Imran Khan, Mujeeb Ur Rehman, Ghulam Abbas, Nosheen Aslam, Shabbir Ahmad, Khizar Abbas, **Pervaiz Akhtar Shah**, Muhammad Iqbal, Ali Mohammad Ahmed Al Subari, Talal Shaheer, Shahid Shah “In vitro Characterization and Release Studies of Combined Nonionic Surfactant-Based Vesicles for the Prolonged Delivery of an Immunosuppressant Model Drug”. International Journal of Nanomedicine <https://doi.org/10.2147/IJN.S268846> 14 October 2020 Volume 2020:15 Pages 7937—7949 **IF 4.653 (HEC HJRS W)**
- 26) Safirah Maheen, Akhtar Rasul, Hafeez u khan, Ghulam abbas, malik Saadullah, Samina Afzal, Mariam sharif, Khurram Afzal, Fatima Tariq and **Pervaiz A Shah** “Co-estimation of Saxagliptin and Enalapril in lipospheres: HPLC method development, validation and optimization using response surface technique” Acta Poloniae Pharmaceutica ñ Drug Research, Vol. 77 No. 5 pp. 673ñ684, 2020 DOI: 10.32383/appdr/127232 ISSN 2353-5288 **IF 0.480 (HEC HJRS Y)**
- 27) Kamran Ahmad Khan, Gul Majid Khan, Kifayat Ullah Shah, Zahid Rasul Niazi, Haroon Khan, Ashfaq Ahmad, Fazal-ur-Rehman, **Pervaiz Akhtar Shah**, Aziz Ullah, Muhammad Tahir and Syed Umer Jan “Design, Preparation and evaluation of various parameters of controlled release matrices of losartan potassium using polymers combination” The Pakistan Journal of Pharmaceutical Sciences (pakjps@hotmail.com) doi.org/10.3671/PJPS .33.5.SUP (2231-2237) (2020) **IF 0.562(HEC HJRS X)**

- 28) Mehreen Bashir, Haroon Khalid Syed¹, Sajid Asghar, Muhammad Irfan, Nosheen Aslam, Muhammad Shahid Iqbal, Ikram Ullah Khan, **Pervaiz A Shah**, Nauman Rahim Khan, Junaid Ahmad, Muhammad Saleem and Muhammad Asif “Binary inclusion complexes of diflunisal with β -cyclodextrin and hydroxypropyl- β -cyclodextrin Preparation and characterization”. The Pakistan Journal of Pharmaceutical Sciences (pakjps@hotmail.com) doi.org/10.36721/PJPS.2020.33.5.SUP. (2307-2315.1) 2020 **IF 0.562 (HEC HJRS X)**
- 29) Mehreen Bashir, Haroon Khalid Syed, Sajid Asghar, Muhammad Irfan, Waleed Hassan Almalki , Salah Ali Menshawi , Ikram Ullah Khan, **Pervaiz A. Shah**, Ikrima Khalid , Junaid Ahmad , Umar Farooq Gohar, Kok Khiang Peh , and Muhammad Shahid Iqbal “Effect of Hydrophilic Polymers on Complexation Efficiency of Cyclodextrins in Enhancing Solubility and Release of Diflunisal” Polymers doi:10.3390/polym12071564 12 (1564- 1580) 2020 **IF 3.960 (HJRS W)**
- 30) Rabia Munir, Haroon Khalid Syed, Sajid Asghar, Muhammad Shahid Iqbal, Muhammad Irfan¹, Ikram Ullah Khan, **Pervaiz A Shah**, Ikrima Khalid, Kashif Imran and Muhammad Saleem “Stability indicating RP-HPLC method of dexibuprofen in nano cream formulation: Identification and quantification” The Pakistan Journal of Pharmaceutical Sciences (pakjps@hotmail.com) doi.org/10.36721/PJPS.2020.33.4.SUP.1815-1821.1 **IF 0.562(HEC HJRS X)**
- 31) Shahid ZAFAR, Muhammad K. KHAN, **Pervaiz A. SHAH**, Adnan JAMIL & Barkat A. KHAN “Antihypertensive Medication Prescription Patterns and Cost Minimization Possibilities in Pakistan Latin American Journal of Pharmacy (formerly Acta Farmacéutica Bonaerense) Lat. Am. J. Pharm. 39 (9): (2020) (1766-1771) **IF 0.240 (HEC HJRS Y)**
- 32) Umar Farooq , Akhtar Rasul, Muhammed Sher, Muhammad Imran Qadir, Imran Nazir, Yasir Mehmood, Humayun Riaz, **Pervaiz Akhtar Shah**, Qazi Adnan Jamil and Barkat A Khan “Development, characterization and evaluation of anti-fungal activity of miconazole based nanogel prepared from biodegradable polymer” The Pakistan Journal of Pharmaceutical Sciences (pakjps@hotmail.com) doi.org/10.36721/PJPS.2020.33.1.SP.449-457.1 **IF 0.562 (HEC HJRS X)**
- 33) Nazia Hassan, Sumera Latif, Hafsa Afzal, N. Abbas, Suriya Naheed, Rabia Khokar and **P.A. Shah** “Taste Masking of Levofloxacin by Microparticulate System Using Emulsion Solvent Evaporation Technique Indian journal of pharmaceutical sciences” 81 (5) (843-850) 2019 **IF 0.435 (HEC HJRS NONE)**
- 34) Kahfel W. BATOOL, Haroon K. SYED, Sajid ASGHAR, Muhammad IRFAN, Ikram U. KHAN, **Pervaiz A. SHAH** & Ikrima KHALID “Investigation of the Co-Effect of Gelucire and β -Cyclodextrin on Glimepiride Solubilization Latin American Journal of Pharmacy” 38 (1733-1740) ISSN 0326 2383 (printed ed.) ISSN 2362-3853 (online ed.) 2019 **IF 0.401(HEC JCR W)**
- 35) Nasir Abbas, Kousar Parveen, Amjad Hussain, Sumera Latif, Shaiq uz Z (2)aman, **Pervaiz Akhtar Shah**, Muhammad Ahsan “Nanosponge-based hydrogel preparation of fluconazole for improved topical delivery” Tropical Journal of Pharmaceutical Research

18 (2) (215-222) ISSN: 1596-5996 (print); 1596-9827 (electronic) © Pharmacotherapy Group, Faculty of Pharmacy, University of Benin, Benin City, 300001 Nigeria. Available online at <http://www.tjpr.org> <http://dx.doi.org/10.4314/tjpr.v18i2.1> 2019 **IF 0.504(HEC JCR W)**

- 36) Barkat A. KHAN, Sohaib AHMAD, Bushra UZAIR, Sumera FAIZ, Faheem HAIDER, Muhammad K. KHAN, **Pervaiz A. SHAH** & Akhtar RASUL “Formulation and Optimization of a Controlled-Release Tablets of Ketorolac Tromethamine” Latin American Journal of Pharmacy 37 (12) (2538-2544) 2018 **IF 0.401(HEC JCR W)**
- 37) Nasir Abbas, Komal Sarwar, Amjad Hussain, Muhammad Irfan, Rabia Mehmood, Muhammad Sohail Arshad and **Pervaiz Akhtar Shah** “Formulation and Evaluation of Indomethacin loaded Nanosponges for oral delivery” polish pharmaceutical society 75 No.5pp (1201-1213) ISSN 0001-6837 2018 **IF 0.840(HEC JCR W)**
- 38) Khurram REHMAN, Ghulam MUSTAFA, Muzammil A. KHAN, **Pervaiz A. SHAH**, Samiullah KHAN, Sattar BAKHSH & Barkat A. KHAN “Oxidative Stress and Biochemical Parameters as Potential Early Biomarkers of Chronic Exposure to Low Dose X-radiations Latin American Journal of Pharmacy” 37 (11) (2137-2144) 2018 **IF 0.401(HEC JCR W)**
- 39) **Pervaiz Akhtar Shah**, Sajid Bashir, Muhammad Ahsan, Nasir Abbas, Muhammad Zubair Malik and Hafiz Muhammad Irfan Nazar “Bioequivalence evaluation of new microparticulate capsule and marketed tablet dosage forms of lornoxicam in healthy volunteers” Tropical Journal of Pharmaceutical Research April 2016; 15 (4): 877-883 ISSN: 1596-5996 (print); 1596-9827 (electronic) 10.4314/tjpr.v15i4.30 2016 **IF 0.804 (HEC JCR W)**
- 40) Muhammad Khurram Waqas, Naveed Akhtar, **Pervaiz Akhtar Shah**, Muhammad Zeeshan Danish, Arshad Ali Shah, Valdir de Andrade Braga and Barkat Ali Khan “Development of cetyl dimethicone based water-in-oil emulsion containing botanicals: Physical characteristics and stability” Pakistan Journal of Pharmaceutical Sciences (pakjps@hotmail.com) Vol .29 No.1pp (173-178) 2016 **IF 0.804 (HEC JCR W)**
- 41) Muhammad Ahsan, Nasir Abbas, Amjad Hussain, Hamid Saeed, **Pervaiz Akhtar Shah**, Sohail Mohammad and Muhammad Sohail Arshad “Formulation Optimization and In-vitro Evaluation of Oral Floating Captopril Matrix Tablets using Factorial Design” Tropical Journal of Pharmaceutical Research 14 (10) (1737-1748) 2015 **IF 0.543(HEC JCR W)**
- 42) Youshan li, min zheng, Xing zhai, Youliang huang, Anwar khalid, Aneela malik, **Pervaiz shah**, Sabiha karim, Saira azhar and Xiaobing hou, “Effect of gymnema sylvestre, citrullus colocynthis and artemisia absinthium on blood glucose and lipid profile in diabetic human” Polish pharmaceutical society Acta Poloniae Pharmaceutica ñ Drug Research, Vol. 72 No. 5 pp. 981ñ985, 2015 **IF 1.16 (HEC JCR W)**
- 43) Muhammad A. HAFIZ, Sajid BASHIR, Imran TARIQ, **Pervaiz A. SHAH** , Hafiz M.I. NAZAR, Sohail AMJAD, Abida LATIF & Ghulam MURTAZ “Development and In vitro Evaluation of Swellable Floating Formulation of Captopril” Latin American Journal of Pharmacy 33 (6) (1001-1008) 2014 **IF 0.372 (HEC JCR W)**

- 44) Muhammad Farhan Sohil, **Pervaiz Akhtar Shah**, Imran Tariq, Syed Saeed ul-Hassan, Umair Amin, Syed Atif Raza, Tariq Saeed, Misbah Sultana and Najam ul Hassan Jawa “Development and In vitro Evaluation of Flurbiprofen Microcapsules Prepared by Modified Solvent Evaporation Technique”. *Tropical Journal of Pharmaceutical Research*; 13 (7): 1031-1038 ISSN: 1596-5996 (print); 1596-9827 2014 **IF 0.589 (HEC JCR W)**
- 45) **Pervaiz A. SHAH**, Sajid BASHIR, Muhammad A. HAFIZ, Imran TARIQ, Hafiz I. NAZAR, & Muhammad AKHTAR “A Simple RP-HPLC Method for Determination of Lornoxicam in Human Plasma Latin American Journal of Pharmacy 33 (6) (1034-1037) 2014 **IF 0.372 (HEC JCR W)**
- 46) **Pervaiz A. SHAH**, Sajid BASHIR, Imran TARIQ & Muhammad A. HAFIZ “Fabrication of Lornoxicam Loaded Eudragit L-100 Microcapsules by Spray Drying” *Latin American Journal of Pharmacy* 33 (5) (828-834) 2014 **IF 0.372 (HEC JCR W)**
- 47) Muhammad Khurram Waqas, Najam-us-Saqib, Saeed-ur-Rashid, **Pervaiz Akhtar Shah**, Naveed Akhtar, Ghulam Murtaza “Screening of various botanical extracts for antioxidant activity using dpph free radical method” *African Journal of Traditional, Complementary and Alternative Medicines* 10 (6) (452-455) <http://dx.doi.org/10.4314/ajtcam.v10i6.9> 452 2013 **IF 0.553 (HEC JCR W)**
- 48) Misbah SULTANA, Syed SAEED-UL-HASSAN, Tariq SAEED, Rizwan MAHMOOD, Imran TARIQ, **Pervaiz A. SHAH**, & Syed A. RAZA “The Effect of Silicon Dioxide Concentrations on Drug Release from Poloxamer/Silicon Dioxide Gel Formulations and their Rheological Characterization” *Latin American Journal of Pharmacy* 32 (6) (911-917) 2013 **IF 0.372 (HEC JCR W)**
- 49) Imran TARIQ, Ahmad M. MUMTAZ, Tariq SAEED, **Pervaiz A. SHAH**, Syed A. RAZA, Najam ul Hassan JAWA, Muhammad Yasir ALI & Ghulam ABBAS “In Vitro Release Studies of Diclofenac Potassium Tablet from Pure and Blended Mixture of Hydrophilic and Hydrophobic Polymers” *Latin American Journal of Pharmacy* 31(3) (380-387) 2012 **IF 0.372 (HEC JCR W)**
- 50) E. Mohiuddin, M. Akram, Naveed Akhtar, H. M. Asif, **Pervaiz Akhtar Shah**, Tariq Saeed, Arshad Mahmood and Nadia Shamshad Malik “Medicinal potentials of *Alpinia galanga*” *Journal of Medicinal Plants Research* Vol. 5(29), pp. 6578-6580, 9 Available online at <http://www.academicjournals.org/JMPRISSN> 1996-0875 ©2011 Academic Journals DOI: 10.5897/JMPR11.525. **IF 1.624 (HEC JCR W)**
- 51) Muhammad Akram, Naveed Akhtar, H. M. Asif, **Pervaiz Akhtar Shah**, Tariq Saeed, Arshad Mahmood and Nadia Shamshad Malik “Treatment of premenstrual syndrome” *Journal of Medicinal Plants Research* Vol. 5(26), pp. 6122-6127, Available online at <http://www.academicjournals.org/JMPR> ISSN 1996-0875 ©2011 Academic Journals DOI: 10.5897/JMPR11.1198.) **IF 1.624 (HEC JCR W)**
- 52) S. M. Ali Shah, Naveed Akhtar, M. Akram, **Pervaiz Akhtar Shah**, Tariq Saeed, Khalil Ahmed and H. M. Asif “Pharmacological activity of *Althaea officinalis* L”. *Journal of Medicinal Plants Research* vol. 5(24), pp. 5662-5666, Available online at <http://www.academicjournals.org/JMPR>. ISSN 1996-0875©2011 academic Journals 2011 **IF 1.624 (HEC JCR W)**

- 53) M. Akram, Naveed Akhtar, H. M. Asif, **Pervaiz Akhtar Shah**, Tariq Saeed, Arshad Mahmood and Nadia Shamsad Malik “A review of diabetes mellitus” *Journal of Medicinal Plants Research* Vol.” 5(22), pp. 5337-5339, Available online at <http://www.academicjournals.org/JMPRISSN 1996-0875> **IF 1.624 (HEC JCR W)**
- 54) Arslan Siddiqi, Shahzad Hussain, Farnaz Malik, Fahadiya Yasin, Tipu Sultan Akram, Ghazala Parveen, Abdul Hameed, Humayun Riaz, **Pervaiz Akhtar Shah** and Tariq Saeed “Relevant influence of promotional tools by pharmaceutical industry on prescribing behaviors of doctors: A cross-sectional survey in Pakistan” *African Journal of Pharmacy and Pharmacology* 5 (13) (1623-1632) 2011 **IF 1.624 (HEC JCR W)**
- 55) M. Akram, H. M. Asif, N. Akhtar, **P. A. Shah**, M. Uzair, G. Shaheen, T. Shamim, S. M. A. Shah and K. Ahmad “Glycogen metabolism and glycogen storage diseases: A review” *Journal of Medicinal Plants Research* Vol. 5(20), pp. 4980-4983, 30 September, 2011 Available online at <http://www.academicjournals.org/JMPR ISSN 1996-0875> **IF 1.624 (HEC JCR W)**
- 56) E. Mohiuddin, Khan Usmanghani, M. Akram, H.M.Asif, Naveed Akhtar, **Pervaiz A. Shah** and M. Uzair “*Morus nigra* - L. A.” *Journal of Medicinal Plants Research* Vol. 5(20), pp. 5197-5199, 30 September, 2011 Available online at <http://www.academicjournals.org/JMPR ISSN 1996-0875> **IF 1.624 (HEC JCR W)**
- 57) M. Akram, Naveed Akhtar, H. M. Asif, **Pervaiz Akhtar Shah**, Tariq Saeed, Arshad Mahmood and Nadia Shamsad Malik “*Butea monosperma* Lam.: A review: *Journal of Medicinal Plants Research* Vol. 5(17), pp. 3994-3996, 9 September, 2011 Available online at <http://www.academicjournals.org/JMPR ISSN 1996-0875> **IF 1.624(HEC JCR W)**
- 58) M. Akram, Naveed Akhtar, H. M. Asif, **Pervaiz Akhtar Shah** and Tariq Saeed “Tuberculosis: A case study of Pakistan” *African Journal of Microbiology Research* Vol. 5(8), pp. 334-339, 18 August, 2011 Available online <http://www.academicjournals.org/ajmr ISSN 1996-0808> **IF 0.121 (HEC JCR W)**
- 59) M. Akram, H. M. Asif, Naveed Akhtar, **Pervaiz A. Shah**, M. Uzair, Ghazala Shaheen, Tahira Shamim, S. M. Ali Shah and Khalil Ahmad “*Tribulus terrestris* Linn.: A review article” *Journal of Medicinal Plants Research* Vol. 5(16), pp. 3601-3605, 18 August, 2011 Available online at <http://www.academicjournals.org/JMPR ISSN 1996-0875> **IF 1.624 (HEC JCR W)**
- 60) M. Akram, Khan Usmanghani, Naveed Akhtar, **Pervaiz Akhtar Shah**, Tariq Saeed, Qaiser Jabeen, H. M. Asif, S. M. Ali Shah “Prevalence of gout in Gadap town, Karachi community, Pakistan” *African Journal of Biotechnology* Vol. 10(40), pp. 7893-7895, 1 August, 2011 Available online at <http://www.academicjournals.org/AJB ISSN 1684-5315> **IF 0.325 (HEC JCR W)**
- 61) Farnaz Malik, Shahzad Hussain, Tahira Mirza, Abdul Hameed, Safia Ahmad, Humayun Riaz, **Pervaiz Akhtar Shah** and Khan Usmanghani “Screening for antimicrobial activity of thirty-three medicinal plants used in the traditional system of medicine in Pakistan” *Journal of Medicinal Plants Research* DOI: [10.5897/JMPR.9001107](https://doi.org/10.5897/JMPR.9001107) Corpus ID: 858643415 (14) (3052-3060) 2011 **IF 1.624 (HEC JCR W)**

- 62) Shahzad Hussain, Farnaz Malik, Kazi Muhammad Ashfaq, Ghazala Parveen, Abdul Hameed , Safia Ahmad , Humayun Riaz , **Pervaiz Akhtar Shah** and Tarik Saeed “Prevalence of self-medication and health-seeking behavior in a developing country African Journal of Pharmacy and Pharmacology Vol. 5(7), pp. 972-978, July 2011 Available online <http://www.academicjournals.org/ajpp> ISSN 1996-0816 **IF 1.171 (HEC JCR W)**
- 63) Humayun Riaz, Farnaz Malik, Atif Raza, Abdul Hameed, Safia Ahmed, **Pervaiz Akhtar Shah** and Shahzad Hussain “Assessment of antibiotic prescribing behavior of consultants of different localities of Pakistan” African Journal of Pharmacy and Pharmacology Vol. 5(5), pp. 596-601, May 2011 Available online <http://www.academicjournals.org/ajpp> ISSN 1996-0816 **IF 1.171 (HEC JCR W)**
- 64) H. M. Asif, M. Akram , Khan Usmanghani , Naveed Akhtar , **Pervaiz A. Shah** , M. Uzair , Memona Ramzan , S. M. Ali Shah and Riazur Rehman “Monograph of *Apium graveolens* Linn” Journal of Medicinal Plants Research Vol. 5(8), pp. 1494-1496, 18 April, 2011 Available online at <http://www.academicjournals.org/JMPR> ISSN 1996-0875 **IF 1.624 (HEC JCR W)**
- 65) M. Ibrahim Khan, Khan Usmanghani , M. Akram , Naveed Akhtar , Qaiser Jabeen , Irshad Ahmed , **Pervaiz Akhtar Shah** , H. M. Asif , Khalil Ahmed and S. M. Ali Shah “The clinical evaluation of herbal anti-round worm medicine: Kemol” Journal of Medicinal Plants Research Vol. 5(3), pp. 467–469, 4 February, 2011 Available online at <http://www.academicjournals.org/JMPR> ISSN 1996-0875 **IF 1.624 (HEC JCR W)**
- 66) Naveed Akhtar² H. M. Asif¹ , **Pervaiz Akhtar Shah³** , Tariq Saeed³ , Arshad Mahmood⁴ and Nadia Shamshad Malik⁵ Vitamin A: A review article Journal of Medicinal Plants Research Vol. 5(20), pp. 4977-4979, 30 September, 2011 Available online at <http://www.academicjournals.org/JMPR> ISSN 1996-0875 **IF 1.624 (HEC JCR W)**
- 67) H. M. Asif^{1,2}, Khan Usmanghani¹ Naveed Akhtar² , M. Uzair³ , **Pervaiz Akhtar Shah⁴** , M. Akram¹ * and Zahoor-ul-Hasan¹ Prevalence of *Helicobacter pylori* in gastroenterological disorders in Shifa Ul Mulk Memorial Hospital Karachi, Pakistan Journal of Medicinal Plants Research Vol. 5(16), pp. 3823-3826, 18 August, 2011 Available online at <http://www.academicjournals.org/JMPR> ISSN 1996-0875 **IF 1.624 (HEC JCR W)**
- 68) Riaz Ur Rehman¹ , Naveed Akhtar¹ , M. Akram² * , **Pervaiz Akhtar Shah³** , Tariq Saeed³ , Qaiser Jabeen¹ , H. M. Asif¹ and S. M. Ali Shah¹ Bacillary dysentery: A review Journal of Medicinal Plants Research Vol. 5(19), pp. 4704-4708, 23 September, 2011 Available online at <http://www.academicjournals.org/JMPR> ISSN 1996-0875 **IF 1.624 (HEC JCR W)**
- 69) Muhammad Shahi d Iqbal¹, **Pervaiz Akhtar Shah²**, Tahir Khan³, Haroon Khalid Syed⁴, Nadia Qamer², Areeba Pervaiz², Haider Abbas Zaidi⁵, Salah-Ud-Din Khan⁶ 1Rapid Analytical Method Development and Validation of Combined Tablet of Drotaverine Hydrochloride and Piroxicam Asian Journal of Pharmaceutics • Jan-Mar 2021 • 15 (1) 1. **IF NONE**

- 70) M. akhtar, N. akhtar, M. ahmad, A.s. Arif, **Pervaiz a. shah** "Drug release from PEG suppository bases and from their combination with polymers" J. fact. pharm Istanbul 33 (7-16) 2000 <https://www.researchgate.net/publication/260190434> **IF NONE (HEC JCR X)**
- 71) **Pervaiz A Shah**, Mehmood Ahmed, Naveed Akhtar, Saeed Anjum Stability of Chlorpheniramine Maleate in cough syrups"Mother and child vol 36 (1)1998 **IF NONE (HEC JCR Y)**
- 72) **Pervaiz A shah**, Saeed Asgher, Nadeem Irfan, Naveed Akhtar, Comparison of locally available gum in co-trim oxazole test formulation with standard formulation: In vitro and in vivo evaluation "Mother and child: Vol:34, No: 2 1996 **IF NONE (HEC JCR Y)**
Papers Accepted in Impact Factor Journals
- 73) Kifayat Ullah Khan, Muhammad Usman Minhas, Syed Faisal Badshah, Muhammad Sohail, Shazeb Khan, **and Pervaiz A Shah**: Preparation and characterization of Polyvinylpyrrolidone K-30 based nanogels for fast dissolution of Olanzipine used in Schizophrenia **submitted in Life Science Elsevier Journal January 2022**(Mail attached) **(HEC HJRS W)**
- 74) Omeira Iqbal, Shahid Shah, Ghulam Abbas *, Akhtar Rasul, Nasir Rasool, Muhammad Hanif, Syed Adnan Ali Shah, Zainul Amiruddin Zakaria *, Zunera Chaudhary, Mehran Ashfaq, Muhammad Yasir Ali, Muhammad Masood Ahmed, **Pervaiz Akhtar Shah** Moxifloxacin loaded nanoparticles of disulfide bridged thiolated chitosan-eudragit RS100 for controlled drug delivery. **Manuscript ID: pharmaceutics-1135030 Received: 19 February 2021**(Mail attached) **IF 0.121 (HEC HJRS W)**
- 75) **Pervaiz A Shah**; Huma Ishfaq; Haider Abbas Zaidi; Noman Asif; Areeba Pervaiz; Dr. Mohammed Saleem; Muhammad Asif "In vivo antioxidant and nootropic potentials of Ricinus communis extracts" for possible publication Springer **Journals Editorial Office Inflammopharmacology Manuscript ID 225130 Submitted 19 Feb 2022**(Mail attached) **(HEC HJRS W)**
- 76) Dr Khalid Hussain, **Pervaiz A Shah** Chromatographia (: "Determination of reserpine in complex matrices inducing florescence by heat using combined TLC and HPLC" for possible publication in Chromatographia, CHRO) <em@editorialmanager.com>Fri, Aug 28, 2022 at 7:58 PM Submission ID: CHRO-D-20-00447(**HEC HJRS W**)

Cumulative Impact factor: 100.707

RESEARCH PROJECT AWARDED

NATIONAL GRANTS AWARDED

No	Type	Title	Organization	Amount	Dates/ Duration/status	
RESEARCH GRANTS						
1.	NRPU/ Peer Reviewed	Formulation Development of Acyclovir microcapsules by using Spray Drying technique, Double emulsion method and its <i>in Vitro</i> and <i>in vivo</i> characterization	Higher Education Commission of Pakistan	4.0 Million PKR	2020/ 3 Years/ submitted	PI
2.	Indigenous Research award	Formulation development of floating matrix Tizanidin tablets and its <i>in vitro</i> characterization	Punjab University	150,000 PKR	2015/ 1 year/ completed	PI
3.	Indigenous Research award	Formulation development of acyclovir floating tablet and <i>in-vitro</i> evaluation	Punjab University	150,000 PKR	2019/ 1 year/ in progress	PI

Conferences/Seminars

Type	Title	National/International	Role	Place	Starting Date	Ending Date
Seminar	Good manufacturing Practices	National	Chaired Session	Rashid Latif College of Pharmacy Lahore Pakistan	04/01/2021	04/01/2021
Seminar	Bioavailability Studies	National	Invited Speaker	Rashid Latif College of Pharmacy Lahore Pakistan	17/09/2020	17/09/2020
Conference	2nd International conference of Pharmaceutical Sciences	International	Participated /Attended	Kufa (Online)	17/06/2020	18/06/2020
Symposium	Freedom of Information Day	International	Participated /Attended	Lahore Museum Research and Reference Library Lahore Pakistan	20/03/2020	20/03/2020
Conference	7th National Medical Conference	National	Invited Speaker	Rashid Latif Medical complex	11/03/2020	11/03/2020

				Lahore Pakistan		
Exhibitions	Industrial exhibition	National	Participated /Attended	DYSON research Laboratories Lahore Pakistan	06/03/2019	06/03/2019
Seminar	Development of Herbal Medicines using Green Extraction and Standardization methods	International	Organized	Punjab University College of Pharmacy Lahore Pakistan	28/01/2019	28/01/2019
Conference	5th National Medical Conference	National	Chaired Session	Rashid Latif College of Pharmacy Lahore Pakistan	17/04/2018	18/04/2018
Advisory Service	External examiner of Microbiology/ Chaired session	National	Chaired Session	Yusra Institute of Pharmaceuti cal Science Islamabad Pakistan	19/02/2018	19/02/2018
Conference	7 th international conference of APS	International	Poster presentatio n	APS conference UK	07/09/2018	07/09/2018
Seminar	Economy based Innovation in Eastern Medicine	National	Paper Presented	Islamia University Bahawal Pur Pakistan	20/10/2017	20/10/2017
Conference	International Conference on Current Pharmaceutical Technologies	International	Participated /Attended	Toronto/Can ada	27/07/2017	27/07/2017
Workshop	HPLC Instrumentation and Quality control Lab.	National	Participated /Attended	Rashid Latif Medical complex Lahore Pakistan	26/06/2016	26/06/2016
Conference	4th Annual conference of Rashid Latif College of Pharmacy	National	Poster presentation	Rashid Latif Medical complex Lahore Pakistan	09/03/2017	10/03/2017
Conference	Canadian Homeopathic Conference ,Ho meopathy back	International	Participated /Attended	Toronto/Can ada	17/10/2017	19/10/2017

	to Future Moving Forward					
Conference	18th International Pharmacy Conference and Exhibition	International	Invited Speaker	Pearl continental Hotel Lahore Pakistan	30/10/2013	02/11/2013
Seminar	Role of Nutraceutical in Modern Health Care System	National	Participated/ Attended	Pearl continental Hotel Lahore Pakistan	14/01/2013	14/01/2013
Seminar	Hospital Pharmacy A new Practice Environment	7th National /Medical Conference	Participated/ Attended	Punjab University College of Pharmacy Lahore Pakistan	20/10/2012	20/10/2012
Conference	New trends and integrative approach from Bench to Bedside	National	Organized	Punjab University College of Pharmacy Lahore Pakistan	06/09/2012	08/09/2012
Symposium	Patient Safety/Spinal Health	National	Organized	University of central Punjab Lahore Pakistan	23/06/2012	23/06/2012
Workshop	Patient Safety/Spinal Health	5th National /Medical Conference	Participated/ Attended	University of central Punjab Lahore Pakistan	23/06/2012	23/06/2012
Conference	Scope and Development of Eastern Medicine in Pakistan	National	Participated/ Attended	Islamia University BahawalPur Lahore Pakistan	12/04/2012	13/04/2012
Conference	Scope and Development of Eastern Medicine in Pakistan	National	Invited Speaker	Islamia University Bahawa Pur Pakistan	12/04/2012	13/04/2012
Symposium	Pharmacy scientific symposium and Pharmaceutical Exhibition	International Conference	Chaired Session	University of central Punjab Lahore Pakistan	14/01/2012	14/01/2012
Seminar	Environmental Toxicology and Health	National	Participated/ Attended	University of Veterinary and Animal	08/03/2011	09/03/2011

				Science Lahore Pakistan		
Conference	Multidisciplinary Approach in Medication usage	4th Annual conference /National	Participated/ Attended	Jinnah Hospital Lahore Pakistan	12/02/2010	14/02/2010
Conference	15th International Pharmacy Conference and Exhibition	International	Participated/ Attended	P.C Lahore Pakistan	05/04/2009	08/04/2009
Workshop	2nd Annual First Aid Workshop	18th International Conference /Exhibition	Participated/ Attended	University college of Pharmacy University of the Punjab Lahore Pakistan	24/10/2008	25/10/2008

Formal trainings

Name	Type	Place	Starting Date	Ending Date	Certificate/ Diploma
Educational policy and Administration	Professional Competency Enhancement Program for teachers	University of Veterinary and Animal Science Lahore Pakistan	23/08/2010	27/08/2010	Certificate
Computer Application	M.S Excel, M.S Win Word, M.S Power point	Government polytechnic institute, Sialkot Pakistan	17/01/2005	19/03/2005	Certificate
Computer Software	Adobe photo shop	Government polytechnic institute, Sialkot Pakistan	01/09/2005	10/11/2005	Certificate
Evening extension Program Computer	Computer Application	Government polytechnic institute, Sialkot Pakistan	27/04/2004	26/07/2004	Certificate
Pharmaceutical Training and Development	Coaching Program for Pharmaceutical representative	Pfizer Pharmaceutic Office at	25/02/2004	26/02/2004	Certificate

		Islamabad Pakistan			
Computer Application	Microsoft Office 2000 and Microsoft Outlook 2000	Pharmacia Pakistan Pvt Ltd Islamabad Pakistan	01/06/2002	01/06/2002	Certificate
Managerial skill development (BMB)	Best managed Behaviors	Pharmacia Pakistan Pvt Ltd Islamabad Pakistan	14/09/2001	14/09/2001	Certificate
Development Dimensions International	Core skills for Building commitment and preparing other to succeed	DDI Islamabad Pakistan	26/07/2001	27/07/2001	Certificate
Managerial skill development (Integrity in action)	Global Compliance and integrity Awareness	Pharmacia Plant Pakistan Pvt Ltd Islamabad Pakistan	19/06/2001	19/06/2001	Certificate
Project Apollo	Role of sales Manager and Goal setting	Pearl continental Hotel Lahore Pakistan	06/03/2000	06/03/2000	Certificate
Business Communication skill	English Language course	The English Language institute Murree road Rawalpindi Pakistan	06/12/1999	06/12/1999	Certificate
Leadership and Team Development for managerial success	Project and demonstration base	AMA Office Rawalpindi Pakistan	13/09/1999	13/09/1999	Certificate
Presentation Skills Workshop	Exercises and practices presentation skills	KZR Associate 15 Aga khan road, F-6/3 Islamabad Pakistan	06/10/1998	06/10/1998	Certificate
Software Training	Microsoft Windows/95, Word6.0, Excel 5.0, Lotus cc mail 2.2	NRA Professional training services center Islamabad Pakistan	06/08/1997	06/08/1997	Certificate
Initial salesmen Training	Disease concept, Product knowledge and selling skills	Hotel Metropole Karachi Pakistan	01/10/1992	22/10/1992	Certificate
Development course for territory sales Officer	Medical knowledge ,disease concept and product knowledge of company	Welcome Pakistan Karachi Pakistan	11/02/1991	07/03/1991	Certificate

Good manufacturing Practices	Manufacturing ,Quality control and GMPs	Faculty of Pharmacy University of the Punjab Lahore Pakistan	01/02/1988	09/02/1988	Certificate
National cadets	The National Cadet Corps essential training for college students	Government S.E College Bahawalpur Pakistan	01/09/1980	01/03/1981	Diploma

RESEARCH SUPERVISION

Ph.D. Students currently under supervision: **Total Number 03**

M.Phil./MS Thesis Supervised: **Total Number: 29**

M.Phil./MS Thesis under Supervision: **Total Number: 06**

Under Graduate Projects supervised: **Total Number: 25**

Sr. No.	Student's Name	Thesis Title	Status
1	Sana Ejaz	Design and Evaluation of Orodispersible Films of Sumatriptan Succinate and Prochlorperazine Maleate for Migraine and Associated Nausea	completed
2	Nauman Chawla	Bioequivalence of Selected drugs with narrow therapeutic index-bridging the gap between Invitro and in vivo data	In progress
3	Muhammad Nabeel Shahid	Preparation and invitro Evaluation of Mucoadhesive controlled Release Polymeric Composites of Lornoxicam Using response surface Methodology	In progress

RESEARCH SUPERVISION (MPhil)

M.Phil./MS Thesis Supervised:

Total Number:

29

Sr.No.	Thesis Title	Year	Ownership
1.	Formulation development of Acyclovir Floating tablets and its in vitro characterization	2018-2020	Ist Supervisor
2.	Formulation development of Omeprazole Floating tablets by using Eudragit and HPMC and its in vitro characterization	2018-2020	Ist Supervisor
3.	Design evaluation and stability optimization of Anti-oxidant loaded micro-emulsion, A novel stability indicating study	2018-2020	1 st Supervisor

4.	Formulation development of Orodispersable tablets of Tramadol HCL by sublimation methods.	2018-2020	1 st Supervisor
5.	Formulation development of Esomeprazole Floating tablets by using Husk and HPMC and its in vitro characterization	2018-2020	Ist Supervisor
6.	Formulation development of Clindamycin Phosphate Nanosponges by different methods and its In vitro characterization	2018-2020	Ist Supervisor
7.	Formulation development and in vitro characterization of triple layer tablet containing Amlodipine Besylate, Rosuvastatin Calcium and Hydrochlorothiazide	2017-2019	Ist Supervisor
8.	Formulation development of Nanosponges of Nimesulide by solvent Evaporation and Ultrasonic assisted Synthesis and its in vitro evaluation.	2017-2019	Ist Supervisor
9.	Formulation Development of Flurbiprofen Microencapsules by modified solvent evaporation technique and its IN-VITRO evaluation.	2011-2013	Ist Supervisor
10.	Validation of Community Pharmacy “the basics to Explore”	2011-2013	Ist Supervisor
11.	Formulation, Characterization and evaluation of Nystatin and Lidocain in Lozanges	2016-2018	2 nd Supervisor
12.	Preparation and evaluation of thin film of Paracetamol by Electrospraying	2017-2019	2 nd Supervisor
13.	Evaluation of Tragacanth and Almond Gum mucilage as a Pharmaceutical excipient	2011-2013	2 nd Supervisor
14.	Formulation and Evaluation of Hydroxypropyl cellulose (HPC) based Microcapsules of Amlodipine	2011-2013	2 nd Supervisor
15.	Formulation and development of mefenamic acid using a newly developed surfactant	2011-2013	2 nd Supervisor
16.	Development and in vitro evaluation of orally disintegrating tablets of Indomethacin	2010-2012	2 nd Supervisor
17.	Effect of HPMC and GUM ACCACIA on the IN-VITRO and IN-SITU release properties of Mucoadhesive Lidocaine hydrochloride Tablets	2005-2007	2 nd Supervisor
18.	Quality control and stability studies of some commercially available Antimalarial tablets	2005-2007	2 nd Supervisor
19.	Rheological characteristics and release of Paracetamol and doxycycline hyclate from Carbopol gel	2018-2020	2 nd Supervisor
20.	Preparation and characterization of Piroxicam Electrospun Fiber for enhanced dissolution rate.	2018-2020	2 nd Supervisor
21.	Enhancement of dissolution rate of Piroxicam cocrystals by Electrospinning.	2018-2020	2 nd Supervisor
22.	Oral Bioavailability studies of Niosomal formulations of Cyclosporine A in albino Rabbits	2018-2020	2 nd Supervisor
23.	Taste masking of Tiznadine using ethyl cellulose based microspheres	2017-2019	2 nd Supervisor

24.	Method development and validation of combined tablet of Drotaverine Hydrochloride and Piroxicam	2017-2019	2 nd Supervisor
25.	Preparation and in vitro evaluation of orally disintegrating immediate release tablets of Ibuprofen	2017-2019	2 nd Supervisor
26.	Microencapsulation of Meloxicam by spray drying method	2016-2018	2 nd Supervisor
27.	Stability indicating RP-HPLC method of Dexibuprofen in nanocream formulation	2016-2018	2 nd Supervisor
28.	Formulation and optimization of a controlled Release tablets of Ketorolac Tromethamine	2012-2014	2 nd Supervisor
29.	In Vitro release studies of Diclofenac Potassium Tablet from pure and blended mixture of Hydrophilic and Hydrophobic Polymers	2009-2011	2 nd Supervisor
30.	Formulation and evaluation of indomethacin loaded nano sponges based hydrogel	2019-2021	Ist Supervisor/In process
31.	Formulation development and evaluation of Mefenamic acid loaded nanosponges based hydrogel	2019-2021	Ist Supervisor/in process
32.	Investigation of Pioglitazone loaded solid dispersion for antidiabetic activity	2019-2021	Ist Supervisor/In process
33.	Development and validation of a method for the simultaneous analysis of Neomycin and Triamsenolone in pharmaceutical dosage form	2019-2021	Ist Supervisor/In process
34.	Development of UV spectrophotometric method for the analysis of Lincomycin hydrochloride in formulation,	2018-2020	2nd Supervisor/In Process
35.	Enhancement of dissolution rate of miloxicam co crystals by Electrospinning.	2018-2020	2 nd Supervisor/In Process

Pharm D (Final year) Project Supervised:

Total Number: 25

Sr.No.	Student's Name	Thesis Title	Session/Year
1	Kashaf u Nisa Subas Ahmed	Preparation and evaluation of Anti Dandruff Shampoo by using Aloe vera	D16M 69&70 / 2021
2.	Warda Younas Maryum Ali Remaish Ali	Formulation Development of Anti Acne Tea Tree oil Soap	D16M 52&54&67/ 2021
4	Muhammad Muneeb Waqar Azeem	Preparation and characterization of mouthwash by using Neem as antiseptic agent	D16M 137&129/2021
5	Muhammad Ibrar Salman Ahmed Muhammad Umer	Preparation and its invitro evaluation of Anti lice Shampoo	D16M 147,145,&148/2021
6	Abdul satar,Ahmed Arsalan	Formulation development and its invitro characterization of Hydro gel of paracetamol	D16M100&103/2021
6	Sohaib Afzal Usama bin Abid Mubasher Ahmed	Design, and development of Orodispersable film of omeprazole for ulcerative colitis patient	D16M 155,135 &141/2021
7	Uswa Baig Noor ul Ain Khan	Developmnet and evaluation of Orodispersable Paracetamol tablets	D16E 07&08/2021

8	Breeha Hassan Fatima Zaheer	Development of sustained release tablets of Piroxicam by using different concentration of PEG polymer	D16E 23&29/2021
9	Nargis Saghir Maham Qamer	Preparation of Antiviral Lipsticks by using Acyclovir as antiviral agent and compare with commercially available products	D16E 39&49/2021
10	Hira Fayyz Muntaha Qurashi	Preparation Toothpaste for sensitive teeth by using Karamira Trianda Root	D16E 69 &154/2021
11	Abid Ali Khan Hurara Usman	Development of Ibuprofen syrup by using different % of HPMC as suspending agent and its in vitro evaluation	D15M144,118/2020
12	Sikinder Usman Nasir	Pre formulation studies of Indomethacin and development of topical cream	D15M 139&141/2020
13	Muhammad Sajid Yaseen Usman	Rheological studies of 5%,7%,and 10% Sulphur ointment and its characterization	D15M 144&151/2020
14	Nimra Shakeel Faira yousaf	Development and evaluation of moisturizing cream by using cucumber extract	D15M 86&66/2020
15	Akasha Naveed Aiman Jameel	Development and evaluation of Ubtan as whitening paste by using Turmeric and maize powder	D15M 33&41/2020
16	Zobia Anusheh Khan	Stability studies of Ascorbic acid of different commercially available brands in Pakistan	D15E 38&51/2020
17	Khizra Faiqa	Pre formulation studies of Gentian violet Oral solution and its Promotional plan for remote areas	D15E 70&71/2020
18	Sana Akber Sidra	Effect of different naturally available suspending agents in Chloramphenicol pediatric syrup	D15E75&76/2020
19	Amina Bisma	Effect of various %ages of Starch paste as binder in Mefenamic acid tablets	D15E 81&82/2020
20	Syeda Fatima Areej Iqbal	Accelerated, ageing and prediction of Lincomycin hydrochloride syrup stability	D15E83&84/2020
21	Aqsa Sultan Noor Fatima	Development of ORS formulation with antidiarrheal agent	D14M 25&26/2019
22	Nimra Ramsh Ahmed	Development of Skin whitening, anti-aging herbal cream	D14M 05&10/2019
23	Momena Naveed Abeer Fatima	Comparative investigation of different polymers for fast dissolving oral films	D14M 26&30/2019
24	Nabeela Mommna Ali	Formulation and evaluation of triple action topical cream of Neomycin, diclofenac sodium and Lidocaine	D14M07&08/2019
25	Rafia Ahmed Maleeka Gul	Development of Water in Oil Micro emulsion and its characterization	D14E 65&67/2019

RESEARCH INTERESTS

- Pharmaceutical Technology and drug development including Pre-formulation studies and formulation design
- Solubility enhancement of BCS class II and Class IV drugs

- 3 D printing: A way forward to personalized dosage form
- Preformulation studies of Pharmaceuticals Compounds
- Micronization (Effect of milling on physicochemical properties of drug)
- Fabrication of milling cell for in-situ pressure and temperature measurement
- Nanosponges formulation
- Enhancement of bioavailability of pharmaceuticals
- PXRD, XRD, DSC and Raman Spectroscopy

MANAGERIAL & ADVISORY SERVICES RENDERED

(Assignments at University and Departmental Level)

I am actively involved in the administrative and advisory services at national and University levels, some of the services are listed below

No	Description	Order NO.	Year
1.	Member of committee to conduct online examination of Punjab university college of Pharmacy, University of the Punjab Lahore Pakistan ,	No.2129/Ph	07-04-2020 till to date
2.	Coordinator, Pharm D Self supporting Evening Program, University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/669/Ph	01-10-2020 till to Date
3.	Incharge Pharm D students Industrial visit Under Practisim , University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/1096 Ph	10-03-2020 to till date
4.	Member College transport committee, , University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/752 Ph	14-10-2020 to till date
5.	Member Alumni Association 2020 , , University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/890 Ph	18-02-2020 to till date
6.	Incharge Industrial Lab , University College of Pharmacy University of the Punjab Lahore Pakistan.	No. D/594 Ph	24-01-2020 to till date
7.	Focal person for affiliated Colleges of Pharmacy with, University College of Pharmacy University of the Punjab Lahore Pakistan	No.D/06/Ph	01-01-2019 to till date
8.	Tutor Incharge 4th prof morning (Pharm D students) , University College of Pharmacy University of the Punjab Lahore Pakistan ,	No. D/2840 Ph	01-10-2019 to till date
9.	Incharge study tour of Pharm D 2nd Professional evening class, University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/2056 Ph	11-06-2019 to 11-06-2020
10.	Member PUCP's Platinum Jubilee Celebrations, , University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/1493/ Ph	25-04-2019to 25-04-2020
11.	Member of Committee constituted to implement the SOPs of COVID 19 in College of Pharmacy, University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/3521/Ph	04/11/2019 to till date
12.	Member of Committee constituted to conduct the admission test for M.phil/PhD program For Session 2019-2021, University College of Pharmacy University of the Punjab Lahore Pakistan	No. 3120/Ph	12-10-2019 to till date

13.	Member of Committee constituted to resolve the students problems/issues at college level, University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/2746/Ph	26/08/2018 to till date
14.	Director Sports Punjab University College of Pharmacy University of the Punjab Lahore	No. D/3219 Ph	01-10-2018 to till date
15.	Nominated as Expert for Affiliation Committee , University of the Punjab Lahore Pakistan	14333/Ph	15-12-2017
16.	Officer Incharge internship programe for Industrial Pharmacy, University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/8415/ Ph	21-05-2014 to till date
17.	Member Board of studies of University College of Pharmacy University of the Punjab Lahore	No. D/10586/Ph	02-09-2013 to 02-09-2016
18.	Duties assigned in summer vacation 2016 at , University College of Pharmacy University of the Punjab Lahore Pakistan	No.D/3682/Ph	28-062011-02-09-2016
19.	Officer Incharge of College Guest House, , University College of Pharmacy University of the Punjab Lahore Pakistan	No.D/12564 Ph	26/05 2010 till to date
20.	Focal person to Deal New Hostel Allotment Scheme for undergraduate and post graduates students of , University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/2840 Ph	07-07-2008 till to date
21.	Member Tea Club, University College of Pharmacy University of the Punjab Lahore Pakistan	No. D/12833 Ph	05-05 2010 to 10-07-2018
22.	Resident Inspector for B.A/B.Sc. ,Part I ,Part II Annual examination 2020 at Examination centre Lawrance Road Lahore Pakistan	2190-2440-ASE/21	20-01-2021 to 30-03-2021
23.	Resident Inspector for B. COM.Part I Annual examination 2020 at Examination centre Lawrance Road Lahore Pakistan	2050-2149-ASE/20	26-10-2020 to 30-11-2020
24.	External Examinar for Practical/viva voce of Pharmaceutics-IV Industrial Pharmacy Akhtar Saeed college of Pharmaceutical Science, Lahore Pakistan	3088/AS/II	26.10.2019 to - 27.10.2020
25.	External Examinar for Practical/viva voce of Pharmaceutics-IV Industrial Pharmacy Gulab Davi Institute of Pharmacy Lahore Pakistan	3088/AS/II	11-10- 2019 to 15-10-2020
26.	Internal Examiner for Practical/viva voce Pharmaceutics III Pharm. Microbiology and immunology University College of Pharmacy University of the Punjab Lahore Pakistan	4008-AS/II	2.11.2019 - 10.11.2020
27.	Internal Examiner for Practical/viva voce Pharmaceutics VIII Pharmaceutical Quality Management For session,University College of Pharmacy University of the Punjab Lahore Pakistan	3088-AS/II	19.10.2019 to 25.10.2020
28.	Internal Examiner for Pharmaceutics -III Microbiology and Immunology, University College of Pharmacy,University of the Punjab Lahore Pakistan	4046-AS/II	2.11.2019 to - 10.11.2020
29.	Paper setter and Internal Examiner for Practical/viva voce Pharmaceutics IV Industrial Pharmacy, University College of Pharmacy University of the Punjab Lahore Pakistan	3088-AS/II	19.10.2019- 25.10.2020
30.	Paper setter and Internal Examiner for Pharmacy Practice - VIII Pharmaceutical management and marketing, , University	3010/AS-II	19-10-2019 to 28-06- 2020

	College of Pharmacy University of the Punjab Lahore Pakistan		
31.	Paper setter and Internal Examiner for Pharmacy Practice -III Dispensing, Community, Social and Administrative Pharmacy, , University College of Pharmacy University of the Punjab Lahore Pakistan	2691/AS-II	11-10-2018 to 24-07-2019
32.	External Examiner for Muhammad Irfan Roll # 5307 of M.phil Govt.College University, Faisalabad	30822	24-09-2019
33.	External Examiner for Muhammad Mashhood Roll #5318 of M. Phil Govt .College University, Faisalabad	30823	24-09-2019
34.	External Examiner for Huma Mehmood Roll # 5319 of M.phil Govt.College Univad, Faisalabad	30824	24-09-2019
35.	Internal Examiner Pharmaceutics-II Pharmaceutical forms Science Old and New Course for session , , University College of Pharmacy University of the Punjab Lahore Pakistan	2691/AS-II	26-11-2017 to 18-09-2018
36.	Paper Setter and External Examiner for pharm D Pharmaceutical Microbiology and immunology, , University College of Pharmacy University of the Punjab Lahore Pakistan	UHS/CE-17/EXD-1138	02/02/2018
37.	Resident Inspector for B.A/B.Sc Examination Centre Lowrance Road Lahore Pakistan	No.784-1056-CEPS/13	28-03-2013 to 28-04-2013
38.	Incharge of management committee for UCP Guest rooms, University College of Pharmacy University of the Punjab Lahore Pakistan	D/490/PH	02-02-2011-02-02-2015
39.	Member Convocation Committee of University College of Pharmacy, University College of Pharmacy University of the Punjab Lahore Pakistan ,	D/125/Ph	2015,2017
40.	Appointment as external examiner for GC University Faisalabad Pakistan	35208	2018-2020
41.	Appointment as External Examiner for 5 th Prof Pharm D, University of Sargodha, Sargodha Pakistan	SU/Pharm890/20	2020

PAPER PRESENTATION/TALKS (NATIONAL AND INTERNATIONAL CONFERENCES)

Pervaiz A Shah, Bioequivalence evaluation of new microparticulate capsule and marketed tablet dosage forms of lornoxicam in healthy volunteers. National conference of Rashid Latif medical and Pharmacy College Lahore Pakistan 17-09-2020.

Pervaiz A Shah, Design, Evaluation and stability optimization of Flurbiprofen by Solvent evaporation method in 7 National Seminar held in Rashid Latif medical complex and pharmacy college Lahore Pakistan 12-03-2020

Pervaiz A Shah, Given talk on examination system of Public Sector Universities to Faculty of Yusra institute of Pharmaceutical Science Islamabad Pakistan 19-02-2018

Pervaiz A Shah, Formulation development of Nano sponges of Nimusalide by solvent Evaporation and Ultrasonic assisted Synthesis and its in vitro evaluation. Economy based Innovation in Eastern Medicine, Islamia University Bahawalpur Pakistan, 20-10-2017

Pervaiz A Shah, Development and Evaluation of Lornoxicam Microparticles by using Hydrophilic and hydrophobic polymers, 18th International Pharmacy Conference and Exhibition PC, Lahore Pakistan, 02-11-2013

Pervaiz A Shah, The clinical evaluation of herbal anti-round worm medicine ,Scope and Development of Eastern Medicine in Pakistan Islamia University Bahawalpur.Pakistan 13-04-2012

POSTER PRESENTED IN NATIONAL AND INTERNATIONAL CONFERENCES

Pervaiz A Shah, Maryam Alzheri. Formulation and evaluation of effervescent floating Matrix of Tizanidine hydrochloride.4th National conference of Rashid Latif Medical Complex and Pharmacy College Lahore Pakistan 07/03/2017

Sajid Bashir², **Pervaiz A Shah**¹, Development of Level A in vitro-in vivo Correlation (IVIVC) of Lornoxicam Controlled Release Tableted Microparticles. APS@FIP 2018 Conference Friday 7th September 2018, Hilton Hotel, 1 William Street, Glasgow

EDITOR & REVIEWER

Editor: Pakistan Journal of Pharmacy

Reviewer

- Latin American Journal of Pharmacy
- African Journal of Medicinal Plants
- Biopharmaceutics and drug deposition
- Polymer
- MDPI journals

PAPER SETTER & EXAMINER

I have been appointed as External examiner/Paper setter for **PhD, MPhil and Doctor of Pharmacy examination** since 2007 in different universities of Pakistan including

- Bahauddin Zakaryia University Multan.
- University of Sargodha, Sargodha
- University of Health Sciences Lahore.
- Superior University Lahore.
- Government College University Faisalabad.
- Lahore College for Women University (LCPW).
- Islamia University Bahawalpur
- Akhtar Saeed medical and dental college
- Ghulab Davi Institute of medical sciences

MAJOR ACHIEVEMENTS

MAJOR ACADEMIC ACHIEVEMENTS AND AWARDS

No	Description of Award	Awardee	Year
1.	Quaid-e-Azam Gold Medal Award at excellent professional performance and publishing research articles in 2010-2011	Tehreke-e-Istehkam-e -Pakistan	2011

2.	Sitar -e- Pakistan Gold medal Award for creating Public Awareness about irrational uses of medicine by organizing seminars in remote areas of Punjab Pakistan	Tehreke-e-Istehkam-e -Pakistan	2011
3.	Research incentive awards for 2015 amounting to Rs:10952.00	University of the Punjab	2015
4.	Highest Research incentive awards for 2018 amounting to Rs:90000.00	University of the Punjab	2018
5.	Research incentive awards for 2019 amounting to Rs:12857.00	University of the Punjab	2019
6.	HEC Approved Supervisor for M.Phil and Ph.D Scholars	Higher Education Commission of Pakistan	28April 2020 to till now

PROFESSIONAL MEMBERSHIP

- Registered with Punjab Pharmacy Council
- Member Pakistan Pharmacist Association (PPA)

REFERENCES

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University of the Punjab

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