

CURRICULUM VITAE

Khyber Medical University, Peshawar

1. Personal Information

Name: Prof. Dr. Niaz Ali

Designation: Professor, Pharmacology & Therapeutics

University: Khyber Medical University (KMU), Peshawar, Pakistan

Email: dr.niazali@kmu.edu.pk, niazpharmacist@yahoo.com (personal email preferred)

Phone: +92 333 9791763

Google Scholar: Prof. Dr. Niaz Ali lectures – Google Scholar

2. Academic Qualifications

Degree	Institution	Remarks
PhD in Pharmacology (MS leading to PhD)	Not specified in source CV	First Division
Master's in Medical Education	Not specified in source CV	First Division
Bachelor's in Pharmacy (Honors)	Not specified in source CV	First Division
Certificate in Health Professions Education	Not specified in source CV	—
PG Certificate in Precision Medicine	American College of Clinical Pharmacology, USA	First Division
LLB	University of Peshawar	—
Postdoctoral Fellowship, Translational Medicine	Canada; European Society of Translational Medicine	—

3. Professional Experience

Position	Organization	Duration
Professor Pharmacology cum Chairman, Faculty Development Unit	College of Medicine, Shaqra University, Riyadh, KSA	2020 – 2026
Professor Pharmacology	Khyber Medical University, Peshawar, Pakistan	19 Jun 2026 – Present (dates as stated in source CV: '22nd March 2026 to 6th November 2020')
Associate Professor Pharmacology	Khyber Medical University, Peshawar, Pakistan	2011 – 2016

Position	Organization	Duration
Lecturer, Pharmacology & Therapeutics cum Clinical Pharmacy	Department of Pharmacy, University of Malakand, Pakistan	2004 – 2011

Key Responsibilities

- Shaqra University: Trained faculty in blended curriculum delivery; introduced item-analysis reporting for MCQs and assessment blueprints modelled on the University of Calgary approach; chaired the PBL committee and revised MBBS PBLs; optimized TBL timetabling; conducted assessment-practice workshops.
- KMU: Supervised MPhil/PhD research; taught postgraduate and undergraduate programs; served as Chairman, Program Team Members for MPhil/PhD programs at the Institute of Basic Medical Sciences, securing HEC accreditation for the programs.
- University of Malakand: Taught Pharmacology & Therapeutics and Clinical Pharmacy to Pharm-D and MPhil students; supervised Pharm-D thesis work; launched new MPhil/PhD programs and the Pharm-D program; established research laboratories; served as Chairman, Department of Pharmacy.

4. Administrative Responsibilities

- Member, American College of Clinical Pharmacology (ACCP), USA.
- Member, Education Committee, ACCP, USA (last 5–6 years).
- Member, Board of Faculties, Khyber Medical University.
- Member, Academic Council, Khyber Medical University.
- Advisor / Reviewer, Ministry of Science and Technology, Kazakhstan.
- Chairman, Program Team Members for MPhil/PhD Program, Institute of Basic Medical Sciences, KMU.
- Chief Proctor, Khyber Medical University.
- Chairman, KMU Research Project Committee.
- Chairman, Purchase and Procurement, Khyber Medical University.
- Chairman, Technical Committee, Khyber Medical University.
- Secretary, Graduate Studies Committee, IBMS, Khyber Medical University.
- Chairman, PBL Committee, College of Medicine, Shaqra University.
- Registered Pharmacist with the Ministry of Health (MOH), KSA and Pakistan.

5. Areas of Specialization / Research Interests

- Pharmacology & Therapeutics — teaching and research across undergraduate MBBS and postgraduate medical programs.
- Pharmacogenomics of Antiepileptic Drugs — genetic determinants of carbamazepine and valproic acid response (EPHX1, SCN1A, SCN2A, CYP3A4, CYP3A5, UGT1A6, UGT2B7).
- Cardiovascular Pharmacology — statin and calcium-channel-blocker interactions and their vasorelaxant/antihypertensive effects.
- Ethno-pharmacology & Phytochemistry — pharmacological basis of medicinal plants of the Malakand region.
- Medical Education — curriculum design, assessment blueprints, item analysis, and OSCE development.

Skills & Competencies

- Proven track record of excellence in teaching and research for Pharmacology & Therapeutics across undergraduate MBBS and postgraduate medical programs.
- Proven track record in medical education, including revision and updating of MBBS curricula as per accreditation needs.
- Administrative leadership of teaching and non-teaching staff to achieve institutional goals and vision.
- Led MBBS program accreditation from the National Center for Academic Accreditation and Evaluation (NCAAA), Riyadh.
- Track record in biomedical, clinical, and educational research, with more than 115 research articles and citations in the thousands.
- Developed assessment blueprints, item analysis, and improved assessment practices to promote learning (per Master's in Medical Education training).
- Facilitated effective feedback systems and student advisership.
- Re-evaluated and revised the OSCE system, preparing separate blueprints for clinical and basic medical sciences.
- Facilitated more than 50 workshops for skills development at the College of Medicine over the last 5 years.
- Organizer of international conferences, seminars, and congresses.
- Conducted workshops in Paris, Istanbul, KSA, and Pakistan.

6. Publications

Summary

Total Publications: More than 115 research articles, with citations in the thousands.

Selected Publications (Last 5 Years)

- Ali HZ, Ali N, Nabi M, Ali M, Jahan S. Evaluation of the laxative effects of *Taraxacum officinale* using experimental animal models. *Journal of Ethnopharmacology*. 2025 Sep 25;353(Pt A):120264.
- Subhan Z, Ali N, Ullah A, Ali W, Nabi M, Shah SWA. New Lead Schiff Bases Predominantly Mediate Vasorelaxant Activity Through $\alpha 1$ Receptor Blocking Activity. *Biomolecules*. 2025;15:611.
- Irshad S, Khan AH, Ali N, Nasib B, Nabi M, Salahuddin N, Faisal R, Ullah S. Renoprotective Effect of Captopril on Tacrolimus-Induced Renotoxicity in Mice. *Khyber Medical University Journal*. 2025;17(3):357-64.
- Ullah W, Ali N, Ullah A, Nabi M. Antihypertensive Activity of Flowering Twigs of *Calotropis Procera* (Ait.) Is Predominantly Mediated through Vasorelaxant Pathway. *Khyber Medical University Journal*. 2025;17(2):149-56.
- Khan I, Ullah S, Ullah S, Ali N, Huma Z, Yaşar S, Khan S, Haq RU, Khan A, Khan I. Antidepressant effects of SY-2476: A caffeine derivative's role in A1/A2A gene expression modulation in corticosterone-induced depressed rats. *Neuroscience Letters*. 2025;845:138059.
- Irshad Z, Nawaz S, Ullah S, Ali N, Khan I, Nabi M. The Anticonvulsant and Antioxidant Effect of *Rosa Moschata* (J) Fruit Extract in Pentylene-tetrazole induced Epileptic Mouse Model. *International Journal of Pathology*. 2025;22(2):61-75.
- Jamil A, Faisal MS, Ali N, Zaman G, Faisal R, Shah HA. Genetic profiling of CYP3A4 variants influencing carbamazepine metabolism and their gender-specific association among patients with epilepsy in Khyber Pakhtunkhwa. *International Journal of Pathology*. 22(4):164-73.

- Jamil A, Ali N, Adil MI, Ullah S, Faisal MS, Awan B. Prospective study on genetic determinants of carbamazepine response: the CYP3A5-rs15524 gene polymorphism in Pashtun patients with epilepsy. *Journal of Medical Sciences*. 2024;32(4):365-70.
- Khattak M, Iqbal Z, Jan A, Ali N, Nasir F, Shahbaz N. Development and Validation of Rapid and Cost-Effective RP-HPLC/UV Method for Determination of Cetirizine/Levocetirizine in Blood Plasma of Smokers and Non-Smokers: a Two Cohort Comparative Study. *Journal of Chromatographic Science*. 2024 Nov 14.
- Nur-Ul-Ain, Ali N*, Ullah A, Ullah S, Ahmad S. Bleeding Events Associated with Rivaroxaban Therapy in Naive Patients with Nonvalvular Atrial Fibrillation: A Longitudinal Study from a Genetic Perspective with INR Follow-Up. *Medicina*. 2024;60:1712.
- Khan K, Zahid M, Ali N, Attaullah S, Ullah M, Khan K, Muhammad I, Abusharha A, Aschner M, Khan H. STAT3 single-nucleotide variants in autoimmune thyroid disease in the Pakhtun population of Khyber Pakhtunkhwa, Pakistan. *Gene Reports*. 2024;36:101950.
- Jamil A, Ali N, Faisal MS, Zaman G, Khan MS. Decoding the genome: CYP3A5 rs15524 polymorphism and how it affects plasma carbamazepine levels in patients with epilepsy in Khyber Pakhtunkhwa. *Journal of Population Therapeutics & Clinical Pharmacology*. 2024;31(1):1187-1194.
- Ali N, Faheem M, Himayatullah, Shabana H, Kassem A, Ahmed MO, Elmahdi E. Atorvastatin as an Antihypertensive Agent: A Pilot Study. *Cureus*. 2023;15(11):e49532.
- Faisal MS, Jamil A, Ali N, Alshahrani AM, Almarshad F. Distribution pattern of UGT1A6 and UGT2B7 gene polymorphism and its impact on the pharmacokinetics of valproic acid and carbamazepine: Prospective genetic association study conducted in Pakistani patients with epilepsy. *Gene*. 2024;892:147886.
- Ali W, Ali N, Ullah A, Rahman SU, Ahmad S. Pitavastatin and Lovastatin Exhibit Calcium Channel Blocking Activity Which Potentiate Vasorelaxant Effects of Amlodipine: A New Futuristic Dimension in Statin's Pleiotropy. *Medicina*. 2023;59(10):1805.
- Ali N, Ali W, Ullah A, Ahmad S, Alsaiari AA, Almeahmadi M, Abdulaziz O, Allahyani M, Aljuaid A. Atorvastatin and Fluvastatin Potentiate Blood Pressure Lowering Effect of Amlodipine through Vasorelaxant Phenomenon. *Medicina*. 2023;59:1023.
- Ali N, Ali W, Ullah A, Ahmad S, Hussain H. Rosuvastatin and Simvastatin potentiate antihypertensive effect of amlodipine through vasorelaxation phenomenon. *Pakistan Journal of Pharmaceutical Sciences*. 2023;36(3):553-961.
- Ullah A, Ahmad S, Ali N, Hussain H, Allahyani M, Almeahmadi M, Alsaiari AA, Abdulaziz O, Almarshad F, Bukhari SH. The Effects of Moxifloxacin and Gemifloxacin on the ECG Morphology in Healthy Volunteers: A Phase 1 Randomized Clinical Trial. *Diagnostics*. 2023;13:1234.
- Jamal M, Rehman M, Nabi M, Khattak ZF, Awan AA, Shah M, Ali N, Hussain I, Sherkheli MA, Haq R. Neurotoxicity, antipsychotic and antidepressant screening of the fruit of *Rosa moschata* in mice. *Pakistan Journal of Pharmaceutical Sciences*. 2023;36(3):793-799.
- Khattak M, Iqbal Z, Ali N, Jan A, Shakirullah, Nasir F. Plasma Levels of Cetirizine and Levocetirizine in smokers and non-smokers: A pharmacogenetic perspective in Pashtun population of Khyber Pakhtunkhwa. *Journal of Xi'an Shiyu University, Natural Sciences Edition*. 2023;66(1).
- Ghani S, Ali N, Ghani N, Khattak I. Level of Nurses Knowledge Regarding Heart Failure Education in Three Major Hospitals of Peshawar. *Journal of Health and Rehabilitation Research*. 2023;3(2):401-406.
- Muhammad N, Rahman SU, Uddin H, Shahzad O, Ismail M, Ali N, Khan A, Shahid M, Abidullah, Ahmad S, Hussain H, Haq I, Vitalini S, Iriti M. Antidiarrheal and antispasmodic activities of *Trillium govanianum* rhizomes extract: involvement of calcium channel blockade. *Natural Product Research*. 2022;36(16):4238-4242.

- Ali N, Bahar S, Khan A, Nabi M, Ali W, Shams B, Bukhari SH. Hepatoprotection and reversal of liver injury with *Rosa moschata* (J. Herm): a histomorphological study. *International Journal of Clinical and Experimental Medicine*. 2022;15(12).
- Ullah S, Ali N, Ahmad S, Shah SWA, Al S, Almarshad F. The likelihood approach for potential role of “GABRG2 (C588T, C315T) gene polymorphisms” on the poor response to carbamazepine therapy in Pakhtun population of Pakistan. *Medicine*. 2022;101(40).
- Hussain H, Ahmad S, Shah SWA, Ullah A, Ali N, Almeshmadi M, Ahmad M, Khalil AAK, Jamal SB, Ahmad H, et al. Attenuation of Scopolamine-Induced Amnesia via Cholinergic Modulation in Mice by Synthetic Curcumin Analogs. *Molecules*. 2022;27:2468.
- Ullah H, Mustafa G, Ashraf M, Ali N, Shabbir M, Nasrullah YS, Hussain S. Level of Awareness Regarding COVID-19 Among Laborers, Maintenance and Sanitary Workers. *Pakistan Journal of Medical & Health Sciences*. 2022;16(2):1107-1111.
- Ullah A, Ahmad S, Ali N, Rahman SU, Hussain H, Alghamdi S, Almeshmadi M, Dabool AS, Bannunah AM, Bukhari SH, Almarshad F. Insulinotropic Potential of Moxifloxacin and Gemifloxacin: An In Vivo Rabbits Model Study Followed by Randomized Phase I Clinical Trial. *Antibiotics*. 2022;11:148.
- Khalil SU, KakaKhel S, Jan A, Jahan S, Gul A, Mukhtar H, Ali N. Acute Toxicity of *Convolvulus Arvensis* in Mice and its Mechanism of Spasmodic on Rabbit Jejunum. *International Journal of Pathology*. 2022;19(2):96-102.
- Abidullah, Ahmad S, Ali N, Almarshad F, Nabi M, Rahman SU, Ullah S, Khan J, Hussain H, Bukhari SH. Moxifloxacin and Gemifloxacin mediates its antispasmodic profile via ATP-Sensitive potassium channels: An in-Vitro bioassay study. *Pakistan Journal of Pharmaceutical Sciences*. 2021;34(5):1983-1988.
- Ullah A, Ali N, Ahmad S, Shah SWA, Hussain H, Khan A, Khan J, Rahman SU, Kamal Z, Hussain H. Moxifloxacin hypoglycemic effect via interactions with glycogen synthase kinase-3 enzyme: A Molecular Dock based approach. *Bioscience Research*. 2021;18(1):749-753.
- Rehman MU, Ali N, Jamal M, Kousar R, Ishaq M, Awan AA, Hussain I, Sherkheli MA, Haq RU. Comparison of acute and chronic effects of *Bacopa monnieri*, *Ginkgo biloba* and *Lavandula angustifolia* and their mixture on learning and memory in mice. *Phytotherapy Research*. 2021.
- Idrees M, Kumar V, Joo MD, Ali N, Lee KW, Kong IK. SHP2 Nuclear/Cytoplasmic Trafficking in Granulosa Cells is Essential for Oocyte Meiotic Resumption and Maturation. *Frontiers in Cell and Developmental Biology*. 2020.
- Ullah S, Ali N, Ali S, Khan A, Ahmad S, Uddin Z. Distribution of Different Genotypes MTHFR and GABRG2 Genes in Epileptic Population of Khyber Pakhtunkhwa Pakistan. *Clinical Schizophrenia & Related Psychoses*. 2020;14(2):29-34.
- Ali N, Nur-Ul-Ain, Nabi M, Subhan Z, Ullah S, Sultana U, Shams B. Acute toxicity and antinociceptive activity of saponins rich fraction of *Dioscorea deltoidea* Wall. *Khyber Medical University Journal*. 2020;12(2):107-112.

7. Research Grants & Projects

Project Title	Funding Agency	Amount / Grant No.	Status
Pharmacokinetic profile of Carbamazepine and valproic acid therapy in management of epilepsies with reference to SNPs in EPHX1, SCN1A and SCN2A genes in the population of Khyber Pakhtunkhwa	Higher Education Commission, Pakistan	Rs 16,976,250 (Award No. 20-4092/NRPU/R&D/HEC 2015/230, dated 08-09-2015)	Executed

Project Title	Funding Agency	Amount / Grant No.	Status
Pharmacological basis for ethno-botanical uses of some medicinal plants of Malakand region	Higher Education Commission, Pakistan	Rs 6.0 Million (Award No. 20-1723/R&D/10-5746, dated 26-10-2011)	Executed
Optimization of antiepileptic drug therapy by establishing association of carbamazepine and valproic acid therapy in most prevalent polymorphism in the Pakistani population	Directorate of Science & Technology, Khyber Pakhtunkhwa	Rs 1.0 Million	Executed
Phytochemical investigations, biological and pharmacological screening processes (Training Program for Technical/Scientific Staff & Researchers)	Higher Education Commission, Pakistan	Grant No. 1-23/HEC/R&D-2007/CASE/34-Local	Executed
Power Lab Upgradation at University of Malakand for maintenance of research equipment	Higher Education Commission, Pakistan	Rs 1.0 Million (Grant No. 4-3/MSP/R&D/HEC/2009, dated 23-09-2010)	Executed
Synergistic effect of current statins and calcium channel blockers: An EC50 based in vitro drug interaction study	Ministry of Education, Government of Saudi Arabia	Grant No. SU-ANN-202201	Executed (2022–2023)

8. Student Supervision

- Supervised 12 PhD and 77 MPhil research students.

9. Awards & Recognition

- Best University Teacher Award, awarded annually and simultaneously by all 3 institutes of Khyber Medical University, in recognition of research supervisorship and teaching excellence.
- Best University Teacher Award, Higher Education Commission, Islamabad (2013).
- Most Productive Scientist Award, Pakistan Council of Science and Technology, Islamabad.

10. Teaching Experience

- Professor Pharmacology cum Chairman, Faculty Development Unit, College of Medicine, Shaqra University, Riyadh, KSA (2020–2026).
- Professor Pharmacology, Khyber Medical University, Peshawar (2026 – Present).
- Associate Professor Pharmacology, Khyber Medical University, Peshawar (2011–2016).
- Lecturer, Pharmacology & Therapeutics cum Clinical Pharmacy, Department of Pharmacy, University of Malakand (2004–2011).

11. Conferences, Workshops & Trainings

- Facilitator of more than 50 workshops for skills development at the College of Medicine, Shaqra University, over the last 5 years.
- Organizer of international conferences, seminars, and congresses.

- Conducted workshops in Paris, Istanbul, KSA, and Pakistan.

12. Community Services / Outreach Activities

Not specified in source CV.

13. References

On request.