

FARAH ANJUM, Ph. D Biosciences

Expertise: Allied Health Sciences (Medical, Clinical & Diagnostic Biochemistry | Hormones & Endocrinology, Molecular Biology | Medical Genetics and Biotechnology)

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Current Employment

Professor, Department of Biosciences
Integral University, Lucknow 226026, India

SCHOLARLY LINKS AND INFORMATION:

[LinkedIn](#) | [Google Scholar](#) | [Scopus](#) | [Research Gate](#)

Researcher ID (Web of Science): AAV-3307-2021

Author ID (Scopus): 57197243847

ORCID ID: 0000-0002-8597-6015

Number of Research Papers: 86

h-index: 23

i 10-index: 45

Cumulative Impact Factor: 239

PUBLICATION PROFILE



PROFESSIONAL SUMMARY

Ph.D. in Biosciences with over 25 years of extensive academic, research, and administrative experience. Demonstrated excellence in initiating and implementing innovative systems and enhancing educational processes during over two decades of international academic experience. Over the past years, I have made significant contributions to fostering student achievement and improving learning outcomes through best teaching practice that cultivate lifelong learning skills and scientific inquiry, aligning my efforts with the requirements of Nation's Job Market, National Education Framework and the strategic objectives of the University's Vision.

EDUCATION DOSSIER

- **Doctorate in Biosciences (Protein Biochemistry)** | Jamia Millia Islamia, New Delhi, India.
"PhD research work targeted protein folding/misfolding mechanisms and their role in disease pathogenesis"
- **Master's in Biosciences (Molecular Genetics Specialization)** | Jamia Millia Islamia, New Delhi, India.
"Final year post-graduation research focussing on plasmid extraction and its characterization from different bacterial isolates"
- **Bachelor's in Sciences (BSc Honors) Biology Track** | Delhi University, New Delhi, India.
"Final year laboratory work emphasized on isolation of DNA and microscopic visualization of cell cycle stages using permanent slide preparation"
- **Senior Secondary Examination (PCB)** | CBSE Board, New Delhi, India.
"Led a final-year biology co-curricular project titled "Prevalence of iodine deficiency disorders in the Suburbs of Delhi City", focusing on field-based data collection and analysis to assess thyroid disease incidence in underserved communities."
- **High School Examination** | CBSE Board, New Delhi, India.

RESEARCH INTERESTS

- Protein misfolding and aggregation in human diseases
- Role of chaperones in cellular protein stabilization
- Clinical biochemistry

RESEARCH FUNDING & FELLOWSHIPS

- King Salman Center for Disability Research (Project No. KSRG-2026-361) | Topic: Molecular Signatures and Therapeutic Target Identification in Traumatic Brain Injury.
- Principal Investigator, King Salman Center for Disability Research (Project No. KSRG-2024-446) | Topic: Novel Biomarkers for Improved Prognosis and Treatment of Amyotrophic Lateral Sclerosis.
- Principal Investigator, Taif University-Distinguished Scientific Funding (TU-DSPP-2024-140).
- Co-Investigator, King Salman Center for Disability Research (Project No. KSRG-2023-242) | Topic: Discovering Gene-Specific Biomarkers for Huntington's Disease – Accelerating Diagnosis and Therapeutics.
- Co-Investigator, Taif University Research Funding (TURSP-2020/296).
- Co-Investigator, Taif University Research Funding (TURSP-2020/131).
- Principal Investigator, Deanship of Scientific Research Funding, Taif University (TU-DSPP-2023)
- Post-Doctoral Research Associateship, CSIR, New Delhi, India
- Senior Research Fellowship, CSIR, New Delhi, India
- Junior Research Fellowship, CSIR, New Delhi, India

TEACHING DOSSIER

April 2026 - Present | Professor, Department of Biosciences, Integral University, Lucknow, India.

- BSc Biotechnology: Molecular biology
- MSc Biotechnology: Essentials of molecular biology

Sep 2008 – Aug 2025 | Associate Professor, College of Applied Medical Sciences, Taif University, Kingdom of Saudi Arabia.

Oct 2005 - Aug 2008 | Assistant Professor, Department of Medical Laboratory Technology, Female Health College, Ministry of Health (MOH), Kingdom of Saudi Arabia.

- Clinical Laboratory Sciences, College of Applied Medical Sciences, Taif University (basic, medical & clinical biochemistry, medical chemistry, medical genetics, endocrinology & hormones, biotechnology & genetic engineering).
- Nursing Sciences, College of Applied Medical Sciences, Taif University (diagnostic biochemistry for nursing).
- Foundation Year, College of Applied Medical Sciences, Taif University (medical chemistry and medical biology).
- Physiotherapy Sciences, College of Applied Medical Sciences, Taif University (biochemistry for physical therapy sciences).
- College of Pharmacy, Taif University (biochemistry).

During my teaching career from 2005-2025 at Taif University, I delivered lectures across diverse allied health programs including clinical laboratory sciences, physiotherapy, nursing, pharmacy and biotechnology as well as the diploma and bridging courses in laboratory medicine and nursing at both undergraduate and post-graduate levels.

May 2005 – Sep 2005 | Assistant Professor, Department of Toxicology, Jamia Hamdard University, New Delhi, India

Jul 2004 – Apr 2005 | Asst. Professor, Department of Biotechnology - School of Engineering, Rai University, New Delhi, India

Jul 2003 – Apr 2004 | Asst. Professor, Department of Biotechnology, Jamia Hamdard University, New Delhi, India

Apr 2001 – June 2003 | Post-Doc Research Associate, CSIR, Ministry of Science & Technology, New Delhi, India

Apr 2001- May 2002 | Lecturer (Part-time), Department of Biosciences, Jamia Millia Islamia, New Delhi, India

Apr 2000 - Mar 2001 | Biology Instructor, Jamia, New Delhi, India

- **Blended and Hybrid Learning**

- Designed blended learning modules for biochemistry courses combining LMS with face-to-face sessions.
- Developed online resources (videos, quizzes and exams) for remote classes during COVID-19 supporting large number of students with very good satisfaction rate.
- Conducted online discussions and forums via LMS to supplement classroom learning and boost student engagement.

PROFESSIONAL DOSSIER

During my tenure at Taif University, I achieved the following;

- Led Program Coordination and Chaired the Academic Development and Accreditation Committee for the Bachelor's Program in Clinical Laboratory Sciences.
- Directed the quality assurance and documentation for undergraduate and postgraduate programs in alignment with national standards set by the Education and Training Evaluation Commission (ETEC), NCAAA.
- Successfully achieved NCAAA programmatic accreditation for the Bachelor's Program, engaged in accreditation processes for the Master's Program in the Clinical Laboratory Sciences Department.
- Developed comprehensive academic quality & accreditation-related databases for program documentation.
- Monitored and periodically updated essential program documents, including course specifications, course reports, and academic files.
- Prepared detailed Annual Program Reports (APR) at the conclusion of each academic year.
- Directed the execution and alignment of the program's operational plan with institutional strategic goals.
- Led initiatives and implementing strategies aimed at achieving national-level academic accreditation.
- Supervised the preparation of the Self-Study Report (SSR) and other key documentations required by accrediting bodies.
- Conducted orientation programs for new faculty members, fostering academic excellence, and professional development within teaching teams.
- Supervised students, reviewing research progress and thesis to ensure scholarly quality, originality, and academic rigor in line with the institutional regulations.
- Contribution to the advancement of knowledge in the field of Applied Medical Sciences via promoting excellence in teaching & learning.
- Adeptly organized and participated in multiple community service and volunteer initiatives in college and public spaces, addressing key social and civic needs.

TEACHING ASSIGNMENTS

Subjects Taught at Bachelor's Level: Organic Chemistry, Basic Biochemistry, Medical Biochemistry, Clinical Biochemistry, Endocrinology & Hormones, Basic Immunology, Cell Biology, Medical Genetics, Diagnostic Molecular Biology, Biotechnology, and Genetic Engineering in the following programs.

- B.Sc., Foundation Year
- B.Sc., Clinical Laboratory Sciences
- B.Sc., General Nursing Sciences
- B. Pharma, Clinical Pharmacy
- B.Sc., Physical Therapy Sciences
- B. Tech, Biotechnology
- Diploma in Medical Laboratory and Nursing Science

Subjects Taught at Master's Level: Biotechnology, Immunology, Biochemistry, Biophysical Chemistry, Bioinformatics and Computational Biology, Cellular and Molecular Biology

- M.Sc., Clinical Laboratory Sciences
- M.Sc., Toxicology
- M.Sc., Biotechnology
- M.Sc., Biological Sciences
- M.Sc., Biotechnology

SCHOLARLY PRESENTATIONS & LECTURES

- Computing the Future of Biology: How Algorithms, Data, and Women Scientists Are Shaping Tomorrow's Medicine, WiCSCon 2026: Resource Person, Ashoka University, Delhi/NCR, India, March 22 2026.
- Proteinopathies in Neurodegenerative Pathologies, Resource Person, First International Conference, TNAI, Berhampur and KCON, Orissa, India, January 31 2026.
- Protein Misfolding Disorders – Speaker, Taif University, November 30 2020.
- Scientific Poster Presentation: Glycated Hemoglobin and Lipid Profile Parameters Association with Type-II Diabetes Mellitus – Middle East Diabetes and Obesity Congress, Jeddah, KSA, March 9–11 2019.
- Micro RNA's: Novel Biomarkers for Early Detection of Type II DM – World Health Day Symposium on Diabetes, 2016.
- Scientific Poster Presentation – World AIDS Day, College of Applied Medical Sciences, 2015
- Biomarkers in Clinical Biochemistry – Weekly Scientific Meeting, 2013
- Role of Tumor Markers with Special Reference to Prostate Specific Antigen – Weekly Scientific Meeting, College of Applied Medical Sciences, 2012.
- Gene-Environment Interaction in Diabetes Mellitus – Symposium on World Diabetes Day, Faculty of Nursing, 2012.
- Update on Pathology & Laboratory Medicine – College of Medicine, 2012.
- Workshop: Research Strategies, KPI's and Benchmarking in Higher Education, 2012.
- Workshop: Implementing Course and Programme Specification, 2011.
- Osmolyte Assisted Folding of Genetically Misfolded Proteins – Symposium in Biochemistry and Biophysics, Christian Medical College, Vellore, India.

PROFESSIONAL SERVICES & CONTRIBUTIONS

Program and Curriculum Development & Coordination:

- Senior key collaborator in programmatic transformation, aligned courses and curriculum with NCAAA standards; guided study plan development and led preparation of program and course specifications (2023–2025).
- Developed course specifications for “Clinical Internship”, aligned with “Clinical Laboratory Standards” (2024).
- Coordinated courses such as Biochemistry, Genetics, Endocrinology and Hormones, assessing learning outcomes achievement by direct and indirect methods (2008-2014).
- Course coordinator for “Nursing Biochemistry and Diagnostic Tests”, led development of course specification, alignment of course learning outcomes with program learning outcomes (2024).
- Senior collaborator in transforming the program to a three-semester system; committee member responsible for preparing study plans, program specifications, and course specifications aligned with the new system. (2022–2023).
- Led the preparation of “Program Specification” for the Department of Clinical Laboratory Sciences, Taif University (2011 - 2025).

External Quality Reviewer:

- Department of Medical Lab Technology, Northern Border University, Kingdom of Saudi Arabia (2025)
- Periodic Comprehensive Program Review, Faculty of Dentistry, Taif University, Kingdom of Saudi Arabia (2024)

Courses Development:

- Medical Genetics, B.Sc. Clinical Laboratory Sciences, Taif University
- Diagnostic Molecular Biology, B.Sc. Clinical Laboratory Sciences, Taif University
- Biotechnology & Genetic Engineering, B.Sc. Clinical Laboratory Sciences, Taif University
- Biochemistry & Medical Biochemistry, B.Sc. Clinical Laboratory Sciences, Taif University
- Biochemistry, B.Sc. Nursing, College of Applied Medical Sciences, Taif University

Laboratory and Safety:

Led the preparation of Material Safety Data Sheets (MSDS) for Chemistry, Biochemistry and Molecular Biology Lab, Taif University.

PUBLICATIONS (Last five years)

- Anjum F, Hulbah MJ, Shamsi A, Mohammad T (2025). *Exploring TANK-Binding Kinase 1 in Amyotrophic Lateral Sclerosis: From Structural Mechanisms to Machine Learning-Guided Therapeutics*. Life (MDPI), 15.
- Khan S, Khan S, Vohra S, Rasheed S, Alsuwat MA, Hazazi A, Anjum F (2025). *Deciphering the anti-cancer and anti-inflammatory activity in natural bioactive compounds of Typhonium flagelliforme: in silico approaches with special target to NEK7*. Medical Oncology 42 (11).
- Hazazi A, Ali Alshehri N, Bakhuraysah M, Ali Alsaeedi F, Alharthi A, Ahamed A, Ali Abu Dahsh S, Albayadh M, Anjum F (2025). *Identification of Novel Natural BACE1 Inhibitors for Alzheimer's Disease via In Silico Approach*. Advances in Life Sciences, 12 (2).
- Anjum F, Hawsawi N, Almalki A, Shamsi A, Hulbah MJ, Bakhuraysah M, Alsharif A, Mohammad T (2025). *Exploring bioactive phytochemicals as ULK 1 Activators for Enhancing Cytoprotective Autophagy In Amyotrophic Lateral Sclerosis*. Frontiers in Pharmacology, 16.
- Raghav V, Swati A, Bhutani R, Kumari A, Anjum F (2025). *Exploring Herbal Remedies as Adjunctive Therapies in Managing Inflammation and Rheumatoid Arthritis*. Current Drug Discovery Technologies.
- Anjum F, Bakhuraysah M, Alsharif A, Mohammad T, Hassan MI (2025). *Emerging Biomarkers in Amyotrophic Lateral Sclerosis: From Pathogenesis to Clinical Applications*. Frontiers in Molecular Biosciences, 12.
- Anjum F, Alsharif A, Bakhuraysah M, Shafie A, Hassan MI, Mohammad T (2025). *Discovering Novel Biomarkers and Potential Therapeutic Targets of Amyotrophic Lateral Sclerosis*. Journal of Molecular Neuroscience, 75 (2).
- Taiyab A, Mohammad T, Sulaimani MN, Anjum F, Azum N, Ashraf A, Rathi A, Hassan MI (2025). *Structure-guided identification of potential MTH1 inhibitors from natural compounds: toward therapeutic targeting of oxidative DNA damage in cancer*. Chemical Papers, 79, 1477–1492.
- Bhati SR, Anjum F, Shamsi A, Hassan MI, Jain M, Muthukumaran J, Singh RP, Singh AK (2025). *In silico screening and molecular dynamics analysis of natural DHPS enzyme inhibitors targeting Acinetobacter baumannii*. Scientific Reports, 15 (1).
- Anjum F, Alsharif A, Bakhuraysah M, Shafie A, Hassan MI, Mohammad T (2025). *Discovering Novel Biomarkers and Potential Therapeutic Targets of Amyotrophic Lateral Sclerosis Through Integrated Machine Learning and Gene Expression Profiling*. Journal of Molecular Neuroscience, 75 (2).
- Anjum F, Banjer HJ, Hawsawi N, Alsaeedi FA, Alsaiaari AA, Alharthi A, Almalki AA, Hulbah MJ, Alharthi N, Shafie A, Bakhuraysah M (2024). *Exploring Natural Compounds Targeting the Bacterial SHV Protein to Combat Antibiotic Resistance: A Biocomputational Study*. Advancements in Life Sciences, 11 (4).
- Elsbali AM, Anjum F, Hazazi A, Al-Ghabban BA, Shafie A, Mohammad T, Hassan MI (2024). *Phytochemicals Neogitogenin and Samogenin Hold Potentials for Hepatocyte Growth Factor Receptor-Targeted Cancer Treatment*. OMICS: A Journal of Integrative Biology, 28 (11).
- Rathi R, Noor S, Khan S, Khan F, Anjum F, Ashraf A, Taiyab A, Islam A, Hassan MI (2024). *Investigating pH-induced Conformational Switch in PIM-1: An Integrated Multi Spectroscopic and MD Simulation Study*. Computational Biology and Chemistry, 113.
- Prabha S, Sajad M, Anjum F, Hassan I, Thakur SC, Shamsi A (2024). *Investigating Gene Expression Datasets of Hippocampus Tissue to Discover Alzheimer's Disease-Associated Molecular Markers*. Journal of Alzheimer's Disease, 102 (4).
- Khan ZF, Rathi A, Khan A, Anjum F, Chaudhury A, Taiyab A, Shamsi A, Hassan MI (2024). *Discovering Therapeutic Candidates for Lung Cancer via PDK3 Inhibition – A drug repurposing approach*. Scientific Reports, 14 (1).
- Anjum F, Hazazi A, Alsaeedi FA, Bakhuraysah M, Shafie A, Alshehri NA, Hawsawi N, Ashour AA, Banjer HJ, Alharthi A, Niaz MI (2024). *Identification and Dynamics Understanding of Novel Inhibitors of Peptidase Domain of Collagenase G from Clostridium histolyticum*. Computation, 12 (8), 158.
- Rathi A, Chaudhury A, Anjum F, Ahmad S, Haider S, Khan ZF, Taiyab A, Chakrabarty A, Islam A, Hassan MI, Haque MM (2024). *Targeting prostate cancer via therapeutic targeting of PIM-1 kinase by Naringenin and Quercetin*. International Journal of Biological Macromolecules, 276 (2).
- Shafie A, Ashour AA, Anjum F, Shamsi A, Hassan MI (2024). *Elucidating the Impact of Deleterious Mutations on IGHG1 and Their Association with Huntington's Disease*. Journal of Personalized Medicine, 14 (4), 380.
- Farooqui H, Anjum F, Lebeche D, Ali S (2024). *Boron Facilitates Amelioration of Hepatic Injury by the Osmolyte Glycine and Resolves Injury by Improving the Tissue Redox Homeostasis*. Journal of Dietary Supplements.

- Alshehri AA, Almutairi AM, Shafie A, Alshehri NA, Almutairi SM, Anjum F (2023). *Identification of potential inhibitors targeting DNA adenine methyltransferase of Klebsiella pneumoniae for antimicrobial resistance management: a structure-based molecular docking study*. *Advancements in Life Sciences*, 10 (4).
- Almalki AA, Shafie A, Hazazi A, Banjer HJ, Bakhuraysah MM, Almaghrabi SA, Alsaiani AA, Alsaedi FA, Ashour AA, Alharthi A, Alharthi NS, Anjum F (2023). *Targeting Cathepsin L in Cancer Management: Leveraging Machine Learning, Structure-Based Virtual Screening, and Molecular Dynamics Studies*. *International Journal of Molecular Sciences*, 24(24). (IF 6.2)
- Mathur Y, Shafie A, Alharbi B, Ashour AA, Al-Soud WA, Alhassan HH, Alharethi SH, Anjum F (2023). *Genome-Wide Analysis of Kidney Renal Cell Carcinoma: Exploring Differentially Expressed Genes for Diagnostic and Therapeutic Targets*. *OMICS: A Journal of Integrative Biology*, 27(8). (IF 3.35)
- Rahaman A, Anjum F, Kumari A, Shafie A, Alee M, Omnia B, Khan SH, Ashour AA, Hazazi A, Arif S, Zeng X (2023). *Deciphering the Binding Mechanism of an Anti-Cancer Phytochemical Plumbagin with Calf Thymus DNA Using Biophysical and In Silico Techniques*. *Frontiers in Chemistry*, 11. (IF 5.5)
- Ali T, Anjum F, Choudhury C, Shafie A, Ashour AA, Almalki A, Mohammad T, Hassan I (2023). *Identification of Natural Product-Based Effective Inhibitors of Spleen Tyrosine Kinase (SYK) through Virtual Screening and Molecular Dynamics Simulation Approaches*. *Journal of Biomolecular Structure and Dynamics*, 42(7). (IF 4.4)
- Hakami MA, Alotaibi BS, Hazazi A, Shafie A, Alsaiani AA, Ashour AA, Anjum F (2023). *Identification of Potential Inhibitors of Tropomyosin Receptor Kinase B Targeting CNS-Related Disorders and Cancers*. *Journal of Biomolecular Structure and Dynamics*, 42(6). (IF 4.4)
- WOS Hua L, Anjum F, Shafie A, Ashour AA, Almalki AA, Alqarni AA, Banjer HJ, Almaghrabi SA, He S, Xu N (2023). *Identifying Promising GSK3 β Inhibitors for Cancer Management: A Computational Pipeline Combining Virtual Screening and Molecular Dynamics Simulations*. *Frontiers in Chemistry*, 11. (IF 5.5)
- Obaid RJ, Shafie A, Malik MS, Al-Rooqi MM, Moussa Z, Abdulaziz O, Aljuaid A, Allahyani M, Almehmedi M, Anjum F, Ahmed SA. (2023). *In Silico Screening and Molecular Dynamics Simulation Studies in the Identification of Natural Compound Inhibitors Targeting the Human Norovirus RdRp Protein to Fight Gastroenteritis*. *International Journal of Molecular Sciences*, 24(5). (IF 6.2)
- Shafie A, Khan S, Batra S, Anjum F, Mohammad T, Alam S, Yadav DK, Islam A (2021). *Investigating single amino acid substitutions in PIMI kinase: A structural genomics approach*, *PLoS ONE*, 16 (10).
- Wahiduzzaman, Kumar V, Anjum F, Shafie A, Elsbali AM, Islam A, Ahmad F, Hassan MI (2021). *Delineating the Aggregation-Prone Hotspot Regions (Peptides) in the Human Cu/Zn Superoxide Dismutase I*. *ACS Omega*, 6 (49), 33985-33994.
- Khan FI, Ali S, Chen WJ, Anjum F, Shafie A, Hassan MI, Lal DK. (2021). *High-resolution MD Simulation Studies to Get Mechanistic Insights into the Urea-induced Denaturation of Human Sphingosine Kinase I*, *Current Topics in Medicinal Chemistry*, 21 (31), 2839-2850.
- Anwar S, Khan S, Anjum F, Shamsi A, Khan P, Fatima H, Shafie A, Islam A, Hassan MI. *Myricetin inhibits breast and lung cancer cells proliferation via inhibiting MARK4*, *Journal of Cellular Biochemistry*, 123 (2).
- Rahaman A, Almalki AA, Rafeeq MM, Akhtar O, Anjum F, Mashraqi MM, Sain ZM, Alzamami A, Ahmad V, Xeng XA, Jamal QMS (2021). *Identification of Potent Natural Resource Small Molecule Inhibitor to Control Vibrio cholera by Targeting Its Outer Membrane Protein U: An In Silico Approach*, *Molecules*, 26 (21).
- Anwar S, Khan S, Shamsi A, Anjum F, Shafie A, Islam A, Ahmad F (2021). *Structure-based investigation of MARK4 inhibitory potential of Naringenin for therapeutic management of cancer and neurodegenerative diseases*, *Journal of Cellular Biochemistry*, 122 (10), 1445-1449.
- Mohammed T, Choudhury A, Habib I, Asrani P, Mathur Y, Umair M, Anjum F, Shafie A, Yadav DK, Hassan MI (2021). *Genomic Variations in the Structural Proteins of SARS-CoV-2 and Their Deleterious Impact on Pathogenesis: A Comparative Genomics Approach*, *Frontiers in Cellular and Infection Microbiology*, 11.
- Waseem R, Anwar S, Khan S, Shamsi A, Hassan MI, Anjum F, Shafie A, Islam A, Yadav DK (2021). *MAP/Microtubule Affinity Regulating Kinase 4 Inhibitory Potential of Irisin: A New Therapeutic Strategy to Combat Cancer and Alzheimer's Disease*, *International Journal of Molecular Sciences*, 22 (20).
- Anjum F, Mohammad T, Almalki AA, Akhtar O, Abdullaev B, Hassan I (2021). *Phytoconstituents and Medicinal Plants for Anti-Cancer Drug Discovery: Computational Identification of Potent Inhibitors of PIMI Kinase*, *OMICS: A Journal of Integrative Biology*, 25 (9), 580-590.
- Umair M, Khan S, Mohammad T, Shafie A, Anjum F, Islam A, Hassan I (2021). *Impact of single amino acid substitution on the structure and function of TANK-binding kinase-1*, *Journal of Cellular Biochemistry*, 122 (10), 1475-1490.
- Habib I, Khan S, Mohammad T, Hussain A, Alajmi MF, Rehman T, Anjum F, Hassan MI (2022). *Impact of non-synonymous mutations on the structure and function of telomeric repeat binding factor 1*, *Journal of Biomolecular Structure and Dynamics*, 40 (19).

- Shamsi S, Anjum H, Shahbaz M, Khan MS, Ataya FS, Alamri A, Alhumaydhi FA, Husain FM, Rehman MT, Mohammed T, Islam A, Anjum F, Shamsi A (2022). *A computational study on active constituents of Habb-ul-aas and Tabasheer as inhibitors of SARS-CoV-2 main protease*, Journal of Biomolecular Structure and Dynamics, 40 (17).
- Jairajpuri DS, Hussain A, Nasreen K, Mohammad T, Anjum F, Rehman MT, Hasan GM, Alajmi MF (2021). *Identification of natural compounds as potent inhibitors of SARS-CoV-2 main protease using combined docking and molecular dynamics simulations*, Saudi Journal of Biological Sciences, 28 (4), 2423-2431
- Alzahrani Rajab, Alrehaili AA, Gharib AF, Anjum F, Ismail KA, Elsayy WH. (2021) *Cancerous Inhibitor of Protein Phosphatase 2A as a Molecular Marker for Aggressiveness and Survival in Oral Squamous Cell Carcinoma*, J Cancer Prev, 25 (1), 21-26.

AWARDS, GRANTS AND FELLOWSHIPS

- Qualified IELTS with a Score of 8.0 (British Council) (2017)
- Awarded Excellent Performance in College of Health Sciences, Ministry of Health, KSA (2005–2008)
- Council of Scientific and Industrial Research – Research Associate Grant (2000)
- Council of Scientific and Industrial Research – Senior Research Fellowship (1996)
- Council of Scientific and Industrial Research – Junior Research Fellowship (1993)
- Qualified Graduate Aptitude Test (GATE) Conducted by IIT, India (1992)
- Awarded Recommendation Prize in Molecular Genetics Model Competition, Delhi University (1989)

THESIS SUPERVISION & CO-SUPERVISION

- Prevalence and Characterization of Extended-Spectrum Beta-Lactamase Producing Pathogens Causing Multiple Drug Resistance Among Hospitalized Patients in Taif City
- Comparative Ability of Adiposity Markers in Identifying Risk of Metabolic Syndrome Across Gender: Cross-Sectional Analysis in Taif, Saudi Arabia
- (Co-Supervisor) Assessment of Lipid Profile and Blood Glucose Levels in Different Women Cancers
- Obesity Indices as Predictor of Hypertension, Type-2 Diabetes Mellitus and Dyslipidaemia Among Staff and Students of School of Applied Medical Science, Taif University
- Association of Glycated Hemoglobin with Serum Lipid Profile Among Type-2 Diabetic Patients in Taif Region of Saudi Arabia
- Impact of Pre-Analytical Variables on Blood Glucose Measurement
- Study of Lipid Profile in Relation to ABO Blood Groups
- HbA1c in Gestational Diabetes Mellitus and its Association with Lipid Profile
- Association of Dietary Habits & Other Lifestyle Factors with Risk of Developing Type 2 Diabetes Mellitus in Saudi Arabia
- Effect of Pre-Analytical Variables on Blood Glucose Value in Diabetic and Nondiabetic Blood Samples
- Effect of Heat on the Conformational Stability of Globular Proteins: Hemoglobin and Myoglobin
- Role of Osmolytes on Thermal Denaturation of Proteins and Enzymes

COMMITTEES, ADMINISTRATIVE AND ACADEMIC DUTIES

- Member of the Higher Supervisory Committee for Quality Affairs, College of Applied Medical Sciences
- Member of the College Quality Unit, College of Applied Medical Sciences
- Member of the Trimester Committee, Department of Clinical Laboratory Sciences
- Member of the Study Plan and Curriculum Committee, Department of Clinical Laboratory Sciences
- Member of the Exit Exam Committee, Department of Clinical Laboratory Sciences
- CLS Program Coordinator, Department of Clinical Laboratory Sciences
- Head of CLS Program's Accreditation Committee, Department of Clinical Laboratory Sciences
- Preparation of Course Specifications and Course Reports for subjects coordinated, Department of Clinical Laboratory Sciences and Nursing Sciences, Taif University
- Course Coordinator for Biochemistry, Medical Biochemistry, Medical Genetics, Department of Clinical Laboratory Sciences and Nursing Sciences, Taif University
- Member, Admissions and Registration Committee, Department of Clinical Laboratory Sciences, Taif University
- Member, Study Plan Committee, Department of Clinical Laboratory Sciences, Taif University
- Deputy Head (Female), Time Table Committee, College of Applied Medical Sciences, Taif University

- Member, Examination Committee, College of Applied Medical Sciences, Taif University
- Deputy Head of the Department, Department of Clinical Laboratory Sciences, Taif University
- Coordinator, Science Laboratory Committee, Department of Clinical Laboratory Sciences, Health College, Taif University
- Coordinator, Examination Committee, Department of Clinical Laboratory Sciences, Taif University
- Clinical Rotations Coordinator for Students' Internship Training at Hospitals, Department of Medical Laboratory Technology Female Health College
- Department Coordinator, Department of Medical Laboratory Technology, Female Health College

COURSES, WORKSHOPS AND CONFERENCES ATTENDED (Selected)

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- NEP Orientation and Sensitization Program, MMTTC-UGC and IGNOU, New Delhi, India (28 May – 08 June 2026).
 - First International Conference on “Unite, Prevent, Protect, Prevail: Together Towards Safer Healthcare”, College of nursing, Berhampur, Orissa, India (31 Jan 2026).
 - Ninth International Conference on Advances in Biosciences and Biotechnology “Emerging Innovations in Biomedical and Bioengineering Sciences” (ICAAB 2026), Jaypee Institute of Information Technology, NOIDA, India (28-30 Jan 2026).
 - International Faculty Development Workshop “Enabling Teachers with AI tools for Effective Teaching-Learning”, Don Bosco Institute of Technology, New Delhi, India (8 Jan – 12 Jan 2026).
 - Making Program Operational Plan and Report, Taif University, Saudi Arabia (May 2024)
 - Making Annual Program Report, Taif University (May 2024)
 - Making Course Reports, Taif University (Jan 2024)
 - Single Nucleotide Polymorphism (SNP) Detection and Analysis Using NGS, Nano Science and Technology Consortium, India (2-4 Nov 2023)
 - Artificial Intelligence Applications, Taif University (Oct 2023)
 - Breast Cancer Workshop, Taif University (Oct 2023)
 - Mastering Manuscript Writing and Referencing Tools, Nano Science and Technology Consortium, India (Sep 2023)
 - Gene Expression Analysis Using R-Programming, Nano Science and Technology Consortium, India (1–3 Sep 2023)
 - Benchmarking for the Comprehensive Transformation, Taif University (Dec 2022)
 - JoVE Workshop for Virtual Laboratory Learning, JoVE Learning Technologies (Oct 2021)
 - Thrombin Conference, Synapse Research Institute, Netherlands (Oct 2021)
 - Workshop on “How to make Course Report,” Deanship of University Development, Taif University (2020)
 - Workshop on “Business Intelligence System,” Deanship of University Development, Taif University (2019)
 - Medical and Health Sciences Education, Organized by George Washington University, USA in collaboration with Taif University (2019)
 - Workshop in Course Specification, College of Applied Medical Sciences, Taif University (2018)
 - Workshop in Course Report, College of Applied Medical Sciences, Taif University (2018)
 - Workshop in SPSS, College of Applied Medical Sciences, Taif University (2018)
 - Assessment Methods in Medical Education - Part 1, College of Applied Medical Sciences, Taif University (2016)
 - Assessment Methods in Medical Education - Part 2, College of Applied Medical Sciences, Taif University (2015)
 - Workshop in Electronic Learning (Blackboard), Main Campus, Taif University (2014)
 - Workshop in Digital Library, College of Applied Medical Sciences, Taif University (2013)
 - Research Strategies, Key Performance Indicators and Benchmarking, British Council, Jeddah, KSA (2012)
 - Workshop in Acadox Program, Health College, Taif University (2012)
 - Innovative Methods in Teaching Health Sciences, Taif University in collaboration with Purdue University, USA (2012)
 - Workshop on Flow Cytometry, College of Medicine, Taif University (2012)
 - Advanced Molecular Diagnostic: Tools and Applications, Center of Excellence in Genomic Medicine and Research, King Abdul-Aziz University, KSA (2011)
 - Workshop on Digital Microscopy, Health College, Taif University (2011)
 - World-Class Applied Research (1) and (2), Jason Leggatt, Queensland University of Technology, Australia (2011)
 - Laboratory Indicator Workshop, King Abdul Aziz Specialist Hospital, KSA (2010)

- Use of Bioinformatic Tools in Analysing Genes causing Alzheimer's Disease, Bioinformatics Institute of India, India (2009)
- Workshop on First Aid and CPR, Health College, Taif University (2008)

CONFERENCES AND SCIENTIFIC ACTIVITIES ORGANIZED

- World Health Day/ "Health for All," Universal Health Coverage (2018)
- World Health Day/ "Depression: Let's Talk," (2017)
- World Health Day/ "Diabetes: Act Today to Change Tomorrow," (2016)
- World AIDS Day/ Scientific Activity (2015)
- World Health Day/ "Food Safety: From Farm to Plate, Make Food Safe," (2015)
- World AIDS Day/ Scientific Activity (2014)
- World Health Day/ "Vector Borne Diseases: Small Creatures, Big Threat," (2014)
- World AIDS Day/ Scientific Activity (2013)
- World Health Day/ "Hypertension Epidemic: A Wake Up Call," (2013)
- World AIDS Day/ Scientific Activity (2012)

IT SKILLS

- Microsoft Applications (Word, Excel, PowerPoint)
- Statistical Package for Social Sciences (SPSS)
- E-learning/Blended Learning through Blackboard Learning Management System
- Student Assessment through Blackboard Learning Management System

PERSONAL DETAILS

Gender: Female | **Languages Known:** English, Hindi, Urdu and Arabic (Basic) | **Nationality:** Indian

Declaration

The above information is accurate and complete to the best of my knowledge. It can be supported with reliable documents anytime needed.

Signature:

Date: 20-June 2026

