

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

Date of Birth: March 29, 1981

Present Position

Associate Professor at the Department of Biochemistry and Department of Molecular Biology and Genetics, Institute of Basic Medical Sciences, Khyber Medical University, Peshawar, Pakistan.

Director KMU, Institute of Health Sciences, Kurram, Parachinar.

PhD Dissertation Title

Sequencing and Analysis of a cDNA Encoding a Putative Coclaurine N-Methyltransferase (CNMT) from *Aristolochia fimbriata*, a Basal Angiosperm

Research Interests

Biochemistry, Molecular (Sequence analysis, Evolutionary analysis) and Computational Biology (Computer aided drug designing, Protein structure, function prediction, Phylogenetic analysis, Ligand-protein interaction analysis) and Data Analysis (Using Programming language such as R)

Other Interests: Self Learner of Programming languages such as R, Python3, SQL, HTML, LaTeX and Statistics

Favorite Subjects: Mathematics and Physics

Summary

Qualifications: PhD (Biotechnology) + Master (Biochemistry) + Bachelor (Biological Sciences + Education: BEd) + Certificate (CHPE)

Publications: 47

Workshops + Conferences: Organized, presented in and Participated in many workshops, conferences and Seminars (Around 72 certificates)

Wet Lab Experience: DNA, RNA extraction from plants, Hemoglobin from blood, Amplification through PCR, Gene cloning in E.Coli

Operating Systems: I can work on Windows, Linux (Ubuntu, Linuxmint), Mac and Android

Statistical Analysis: SPSS, Excel and R programming

Computer software: I have some experience in MS Word, Excel, Powerpoint, Access

Reference Management: EndNote, Mendeley, Zotero, BibTex and BibLaTeX etc

Bioinformatics tools and Databases used: Megan, Modeller, Clustal, MEGA, ProSA, PROCHECK, Ligplot +, PyRx, Bioedit, FinchTV, CLC, iDock, Patchdock, Zinc, PDB, NCBI, ExPASy, Drugbank, Click2Drug, SwissModel and many more.

Programming Languages: R (Very Good), Python3 (Fair), HTML (Basics), LaTeX (MikTex) (Basics)

Teaching Experience: Associate Professor Since 2022, Assistant Professor at Khyber Medical University since June 1, 2011. Visiting faculty at some other colleges.

Awards: Certificate of appreciation on excellence in teaching in 2016 and 2017 both from IBMS and IPMR.

Students Supervised: 11 MPhil completed and Five MPhil and Two PhD in Progress

Projects won and Completed: HEC NRPB project (2.5million)

Scholarships awarded: IRSIP for USA and Indigenous Scholarship for PhD by HEC

Foreign countries visited: The Penn State University, USA.

Position in Oral presentation: Awarded 3rd position in Annual health research conference on oral presentation.

Details can be read in the following pages.



ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

Academic

Title	Institution	Board/University	Subject	Year	Marks (%)	Division
PhD	Center of Biotechnology and Microbiology	University of Peshawar	Biotechnology (Biochem, Mol & Computational Biol)	2011	CGPA: 3.8	1 st
M.Sc	Department of Chemistry	University of Peshawar	Chemistry (Biochemistry)	2003	62.08	1 st
B.Sc	Government Degree College Parachinar	University of Peshawar	Chemistry, Botany and Zoology	2001	64.54	1 st
F.Sc	Government Degree College Parachinar	BISE Peshawar	Pre-Medical	1999	60.64	1 st
SSC	Government High School Zeran	BISE Peshawar	Science	1997	71.65	1 st
Other Degrees						
B.Ed	Khyber Institute of Education Peshawar	University of Peshawar	Foundation of Education, Physical Sciences and Math	2004	59.00	2 nd
Other Certificates						
CHPE	Institute of Health and Physical Education	Khyber Medical University	Certificate in Health Professional Education	2013	--	--

*PhD: Doctor of philosophy, M.Sc: Master of Science, B.Sc: Bachelor of Science, F.Sc: Faculty of Science, SSC: Secondary School Certificate, B.Ed: Bachelor of Education, CHPE: Certificate in Health Profession Education

Courses Studied

Advanced Pharmacology; Biochemistry (Macromolecules, Nutrition, Physiology, Microbiology and Immunology); Bioinformatics in General; Chemistry (Physical, Organic, Inorganic, and Environmental); Chromosome Engineering; Genetic Engineering and Gene Cloning; Protein Chemistry; Recent Trends in Biotechnology; Research Methodology and Logical Reasoning; Theory and Applications of Immunoassay.

Courses Taught

Amino acids, peptides and proteins; Biochemical techniques; Biochemistry; Bioinformatics; Blood biochemistry; Chemistry general; Chemistry of Respiration; Computational Biology and Medical Bioinformatics; Digital library; Endocrinology and cell signaling; Nanomedicines (Tissue Engineering, Nanocardiology), Principles of Proteomics, Computational Biology, Programming in Bioinformatics.

Research Experience

1. The list of publications is attached below in publication section.
2. Identification of CNMT gene in *Aristolochia fimbriata* and homology modeling of the protein it encodes for; Docking the Ligand to Protein and phylogenetic analysis of the CNMT genes sequenced at that time at the Center of Biotechnology and Microbiology, University of Peshawar during September 2008 to February 2010
3. Isolation and analysis of RNA/DNA from Plant's Tissues, and cDNA cloning and amplification at the department of Biology, the Penn State University, USA during March 2008 to September 2008
4. Isolation, chain separation, identification, homology modeling and phylogenetic analysis of hemoglobin from birds blood at the Center of Biotechnology and Microbiology, University of Peshawar, Pakistan during May 2006 to March 2008

PMDC Registration: 9511/Non-Medical

Indigenous PhD PIN: 042-140122-LS2-099

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

Publications

Total articles	HEC	National	International	Main Author	1 st Author	Corresponding	IF Articles	This year	TIF
54	42	15	28	11	4	7	22	4	53
W	X	Y	Z	Unknown	Total				
18	7	17	0	10	48				

S	Journal	Country	HEC	Scopus	WOS	ISSN	IF	IF(Nxt Yr)	IF(current)	Articles	TIF
1	International Journal of Computational Bioinformatics and In Silico Modeling		0			2320-0634	0	0	0.00	2	
2	Journal of Applied Pharmaceutical Science	India	X	Yes	No	2231-3354	0	0	0.00	3	
3	International Journal of Bioinformatics Research and Applications	UK	Y	Yes	No	1744-5485 or 1744-5493	0	0	0.00	2	
4	African Journal of Biotechnology		Y			1684-5315	0.616	0.782	0.00	1	
5	American-Eurasian Journal of Agricultural & Environmental Science		0			1818-6769	0	0	0.00	1	
6	International Journal of Food Safety, Nutrition and Public Health		Y			1479-3911	0	0	0.00	1	
7	Peshawar University Teacher Association Journal Sciences		Y			2219-2468	0	0	0.00	1	
8	Journal of the chemical society of Pakistan	Pakistan	W	Yes	Yes	0253-5106	1.31	1.486	0.536	2	1.072
9	Journal of Natural Sciences Research		0			2224-3186 or 2225-0921	0	0	0.00	1	
10	Pakistan Journal Of Weed Science Research	Pakistan	X	No	No	1815-1094 or 2225-7942	0	0	0.00	1	
11	Khyber Medical University Journal	Pakistan	Y	Yes	Yes	2305-2643 or 2305-2651	0	0	0.3	5	1.500
12	Advances in Basic Medical Sciences	Pakistan	Y			2410-6283	0	0	0.00	1	
13	Journal of The Pakistan Medical Association	Pakistan	W	Yes	Yes	0030-9982	0.53 0.52	0.43 0.52	0.781	2	1.562
14	Nanotechnology Reviews	Germany	W	Yes	Yes	2191-9097 or 2191-9089	2.044	2.586	7.848	1	7.848
15	Pakistan Journal of Medical Sciences	Pakistan	W	Yes	Yes	1682-024X or 1681-715X	0.696	0.719	1.088	1	1.088

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

16	Gomal Journal of Medical Sciences	Pakistan	Y	Yes	Yes	1819-7973 or 1997-2067	0	0	0.00	1	
17	Genes and Genomics	South Korea	W	Yes	Yes	1976-9571 or 2092-9293	0.759	1.188	1.839	1	1.839
18	Pakistan Journal of Medical & Health Sciences	Pakistan	0	No	No	1996-7195	0	0	0	2	
19	International Journal of Trichology	India	X	Yes	No	0974-7753 or 0974-9241	0	0	0.00	1	
20	Khyber Journal of Medical Sciences	Pakistan	Y	No	No	2079-8547	0	0	0.00	1	
21	Journal of Khyber College of Dentistry	Pakistan	Y	No	No	2220-2633 or 2307-3934	0	0	0.00	1	
22	International Journal of Scientific and Research Publications		0			2250-3153	0	0	0.00	1	
23	Journal of Cluster Science	USA	W	Yes	Yes	1040-7278 or 1572-8862	1.731		3.061	1	3.061
24	Computational Biology and Chemistry	UK	W	Yes	Yes	1476-9271		2.877	2.877	1	2.877
25	Biomass and Bioenergy	UK	W	Yes	Yes	0961-9534		5.061	5.061	1	5.061
26	Saudi Pharmaceutical Journal	Saudi Arabia	W	Yes	Yes	1319-0164		4.330	4.330	1	4.330
27	Molecules	Switzerland	W	Yes	Yes	1420-3049	3.267	4.411	4.411	1	4.411
28	Journal of Vector Borne Diseases	India	W	Yes	Yes	0972-9062	1.688		1.688	1	1.688
29	Journal of Food Safety	USA	W	Yes	Yes	0149-6085 or 1745-4565	1.953	1.953		1	1.953
30	Brazilian Journal of Biology	Brazil	X	Yes	No	1519-6984 1678-4375	1.36	1.36		1	1.36
31	Pakistan Journal of Pharmaceutical Sciences	Pakistan	W	Yes	Yes	1011-601X	1.103			1	1.103
32	Journal of Xi'an Shiyu University	China	0	Yes	No	1673-064X				1	
33	Pakistan Journal of Biochemistry and Biotechnology	Pakistan	Y	No	No	2707-5494				1	
34	ACS Omega (American Chemical Society)	USA	W	Yes	Yes	2470-1343	4.132		4.132	1	4.132
35	HAL Open Science		0							1	
36	Neoplasia	USA	W	Yes	Yes	1476-5586 or 1522-8002	4.8		4.8	1	4.8
37	Frontiers in Genetics	Switzerland	W	Yes	Yes	1664-8021	3.7		3.7	1	3.7
38	Journal of Population therapeutics &	Canada	0	Yes	Yes	1198-581X,1710-				1	

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

	Clinical Pharmacology					6222					
39	Kurdish Studies	UK	X	Yes	Yes	2051-4891,2051-4883	0.87		0.87	1	0.87
40	Sch Int J Biochem	UAE	0			2617-3476, 2616-8650	0		0	1	0
	Journal of Medical & Health Sciences	Pakistan	Y			3007-3081,	0		0	1	0
	Toxicology and Applied Pharmacology	USA	W	Yes	Yes	1096-0333, 0041-008X	3.4		3.4	1	3.4
Total										48	53.955

Published

2026(1/2)

1. Syed Murtaza Shah Bukhari, Mohsin Shah, Roshan Ali, Najeeb Ur Rehman, Pervaiz Ahmad, Fawad Ali Shah Ghrelin as a Candidate Molecule in Translational Pharmacology: Physiopharmacological Actions, Therapeutic Pros and Cons, and Delivery Challenges *Toxicology and Applied Pharmacology* 511(y) 117809 (2026) (IBMS-Int) 3.4 W <https://doi.org/10.1016/j.taap.2026.117809>
2. Shafaat Hussain, Roshan Ali², Kashif Anar, Sayed Hadi Hussain, Seema Jamshid Knowledge, Attitude, and Practice Regarding Cardiovascular Diseases Among Primary and Secondary School Teachers: A Cross-Sectional Study *Journal of Medical & Health Sciences Review* 3(1) 665-673 (2026) (IBMS-Int) 0 Y

2025(1/2)

3. Muhammad Shoaib, Mujeeb Alam Khan, Muhammad Idrees*, Roshan Ali⁴, Muhammad Waqas Luqman Structural dynamics of glycosylated isoforms of Glycodelin: a comparative study through molecular dynamics simulation *Khyber Medical University Journal* 17(2) 187-194 (2025) (IBMS-Nat) 0.2 Y <https://doi.org/10.35845/kmu.2025.23776>
4. Muhammad Ali, Roshan Ali², Israr Ali Khan, Irshad Ahmad, Nighat Nawaz, Simon G Patching* The Escherichia coli zinc exporter ZitB of the Cation Diffusion Facilitator (CDF) protein family: Properties, cloning, amplified expression, purification *Sch Int J Biochem* 8(2) 50-65 (2025) (IBMS-Int) NA 0

2024(4/6)

5. Shamaila Wadud, Sadia Fatima, Rubina Nazli, Roshan Ali, Muhammad Irfan Expression Analysis of miR-132, miR-182, miR-124, miR-let7b and miR-let7c in Patients with Depression *Kurdish Studies* 12(5) 253-257 (2024) (IBMS-Int) 0.87 X <https://doi.org/10.53555/ks.v12i5.3183>
6. Shamaila Wadud, Sadia Fatima*, Rubina Nazli, Roshan Ali⁴, Muhammad Irfan Bioinformatic Interpretation of Tracking Genes of miRNA-Let 7B and miRNA-Let 7c in Depression *Journal of Population Therapeutics & Clinical Pharmacology* 31(6) XX (2024) (IBMS-Int) 0
7. Hilal Ahmad, Asif Ali, Ali Talha Khalil*, Roshan Ali⁴, Ishaq Khan, Mah Muneer Khan, Ibrar Ahmed, Zarrin Basharat, Mohammed Alorini, Amna Mehmood Clinico-Genomic Findings, Molecular Docking and mutational spectrum in understudied population with breast cancer patients from KP, Pakistan *Frontiers in Genetics* 15(x) 1383284 (2024) (IBMS-Int) 3.7 W <https://doi.org/10.3389/fgene.2024.1383284>
8. Shamaila Wadud*, Sadia Fatima, Roshan Ali³, Rubina Nazli, Zahid Khan, Muhammad Irfan Identification of target genes and pathways regulated by miRNA-132, miRNA-182, and miRNA-124 in depression: a bioinformatics analysis *Khyber Medical University Journal* 16(1) 23517 (2024) (IBMS-Int) 0.3 Y <https://doi.org/10.35845/kmu.2024.23517>
9. Hilal Ahmad, Asif Ali*, Roshan Ali³, Ali Talha Khalil*, Ishaq Khan, Mah Muneer Khan, Mohammad Alorini Preliminary insights on the mutational spectrum of BRCA1 and BRCA2 genes in Pakhtun ethnicity breast cancer patients from Khyber Pakhtunkhwa (KP), Pakistan *Neoplasia* 51(x) (2024) (IBMS-Int) 4.8 W <https://doi.org/10.1016/j.neo.2024.100989>
10. Nawaz Nighat, Roshan Ali², Muhammad Ali, Lain W Manfield, Muhammad Kamran Taj, Mohammad Zahid Mustafa, Simon G Patching* Microscale thermophoresis Analysis of Membrane Proteins *HAL Open Science* hal-04377468 (2024) (IBMS-Int) 0

2023(1/3)

11. Hilal Ahmad, Asif Ali*, Roshan Ali³, Ali Talha Khalil*, Ishaq Khan, Mah Muneer Khan, Mohammad Alorini Mutational Landscape and In-Silico Analysis of TP53, PIK3CA, and PTEN in patients with breast cancer from Khyber Pakhtunkhwa *ACS Omega* X(x) (2023) (IBMS-Int) 4.132 W <https://doi.org/10.1021/acsomega.3c07472>

12. Hafsa Muhammad, Parkha Tariq, Muhammad Asif Khan, **Roshan Ali**⁴ Virtual Screening for the Identification of Potential Inhibitors for VP53 Protein of Marburg Virus *Pakistan Journal of Biochemistry and Biotechnology* **4**(1) (2023) (IBMS-Nat) Y
13. Muhammad Idrees, Muhammad Shoaib, Mujeeb Alam Khan, Ehtesham, **Roshan Ali**⁵, Mansoor Ahmad Stability Insights of Aberrant Glycated Mucin1 (MUC 1) Variable Number of Tandem Repeat (VNTR) Region Through a Molecular Dynamic Approach *Journal of Xi'an Shiyou University Natural Sciences Edition* **66**(1) 68-77 (2023) (IBMS-Int) 0
2022(1/1)
14. Irshad Ahmad, Muhammad Ali, **Roshan Ali**³, Nighat Nawaz, Simon G Patching Structure-based virtual screening and molecular docking of drugs against the SARS-CoV-2 spike protein-ACE2 receptor complex *Pakistan Journal of Pharmaceutical Sciences* **35**(6) 1531-1538 (2022) (IBMS-Int) 1.103 W <http://doi.org/10.1590/1519-1538.1>
2021 (4/5)
15. Abid Ullah, Niaz Ali, S Ahmad, SU Rahman, S Alghamdi, AM Bannunah, **Roshan Ali**⁷, A Aman, J Khan, H Hussain, MUK Sahibzada Glycogen synthase kinase-3 (GSK-3) a magic enzyme: it's role in diabetes mellitus and glucose homeostasis, interactions with fluroquinolones. A mini-review *Brazilian Journal of Biology* **83**(x) e250179 (2021) (IBMS-Int) 1.36 X <https://doi.org/10.1590/1519-6984.250179>
16. Mujeeb Alam Khan, Ehtisham, Muhammad Shoaib, **Roshan Ali**⁴, Muhammad Idrees Effects of Normal and Aberrant Glycosylation on the Stability of α 1- Anti Trypsin Through Molecular Dynamic Simulation *Pakistan Journal of Medical and Health Sciences* **15**(10) 3066-3069 (2021) (IBMS-Nat) NA 0
17. Hina Nayab, **Roshan Ali**², Tahir Sarwar, M Asif Khan, Mehreen Ul Hassan, Tayyab Ur Rehman* A structure based virtual screening and molecular docking by using potent inhibitors against nucleoprotein of Crimean-Congo hemorrhagic fever virus *Journal of Vector Born Diseases* **58**(2) 126-134 (2021) (IBMS-Int) 1.688 W <http://doi.org/10.4103/0972-9062.321757>
18. Irshad Ahmad*, Sonia Khattak, **Roshan Ali**³, Nighat Nawaz, Kalim Ullah, Sher Bahadar Khan, Mumtaz Ali, Simon G. Patching, Mohammad Zahid Mustafa Prevalence and molecular characterization of multidrug-resistant Escherichia coli O157: H7 from dairy milk in the Peshawar region of Pakistan *Journal of Food Safety* **41**(6) e12941 (2021) (IBMS-Int) 1.953 W <https://doi.org/10.1111/jfs.12941>
19. Fareena Shahid, Noreen, **Roshan Ali**³, Syed Lal Badshah, Syed Babar Jamal, Riaz Ullah*, Ahmed Bari, Hafiz Majid Mahmood, Muhammad Sohaid, Siddique Akber Ansari Identification of Potential HCV Inhibitors Based on the Interaction of Epigallocatechin-3-Gallate with Viral Envelope Proteins *Molecules* **26**(5) 1257 (2021) (IBMS-Int) 4.411 W [10.3390/molecules26051257](https://doi.org/10.3390/molecules26051257)
2020 (3/3)
20. Noreen*, **Roshan Ali**², Syed Lal Badshah, Muhammad Faheem, Sumra Wajid Abbasi, Riaz Ullah, Ahmed Bari, Syed Babar Jamal, Hafiz Majid Mahmood, Adnan Haider, Sajjad Haider Identification of Potential Inhibitors of Zika Virus NS5 RNA-Dependent RNA Polymerase Through Virtual Screening and Molecular Dynamic Simulations *Saudi Pharmaceutical Journal* **28**(12) 1580-1591 (2020) (IBMS-Int) 4.330 W <https://doi.org/10.1016/j.jsps.2020.10.005>
21. Javid Hussain*, Xiaoqing Wang, Leandro Sousa, **Roshan Ali**⁴, Bruce E. Rittmann, Wei Liao Using non-metric multi-dimensional scaling analysis and multi-objective optimization to evaluate green algae for production of proteins, carbohydrates, lipids, and simultaneously fix carbon dioxide *Biomass and Bioenergy* **141**(y) 105711-xxxx (2020) (IBMS-Int) 5.061 W <https://doi.org/10.1016/j.biombioe.2020.105711>
22. **Roshan Ali**^{1*}, Yuannian Jiao, P. Kerr Wall, Simon G. Patching*, Irshad Ahmad, Ghosia Lutfulla, Claude W. dePamphilis In silico identification and structure function analysis of a putative coclaurine N-methyltransferase from Aristolochia fimbriata *Computational Biology and Chemistry* **85**(y) 107201-yy (2020) (IBMS-Int) 2.877 W <https://doi.org/10.1016/j.compbiolchem.2020.107201>
2019 (1/2)
23. Aziz Ur Rahman*, Yun Wei, Aftab Ahmad, Arif Ullah Khan, **Roshan Ali**⁵, Sadeeq Ullah, Waqas Ahmad, Qipeng* Yuan Selenium Nanorods, Decorated Gold Nanostructures: Synthesis, Characterization and Biological Applications *Journal of Cluster Science* **31**(4) 727-737 (2019) (IBMS-Int) 3.061 W <https://doi.org/10.1007/s10876-019-01680-y>
24. Hifza Saleem*, Safdar Munir, Ammara Mumtaz, **Roshan Ali**⁴, Ayesha Maqbool, Danish Malik, Muhammad Abubakar Sideeq, Fatima Shamas Identification of Potent Inhibitors Against Potential Drug Target for Schizophrenia Trough Virtual Screening Approach *International Journal of Scientific and Research Publications* **9**(6) 820-825 (2019) (IBMS-Int) NA 0
2018 (2/4)
25. Muhammad Iqbal*, Shakeel Anwar, **Roshan Ali**³, Zahoor Ahmad Khan C-Reactive Proteins And ESR Levels In Patients With And Without Apical Periodontitis. A Cross-Sectional Study *Journal of Khyber College of Dentistry* **8**(3) 20-24 (2018) (IBMS-Nat) NA Y
26. Muhammad Waqas Luqman*, Muhammad Haris Ramzan, Usama Javaid, **Roshan Ali**⁴, Muhammad Shoaib, Muhammad Ayyas Luqman To evaluate and compare changes in baseline strength of hairs after treating them with deionized water and hard water and its role in hair breakage *International Journal of Trichology* **10**(3) 113-117 (2018) (IBMS-Int) NA X
27. Fahad Mahmood Ahmad*, **Roshan Ali**², Adnan Mahmood Gul Effect of percutaneous transvenous mitral commissurotomy on brain natriuretic peptide in mitral stenosis in tertiary care hospitals of Peshawar *Journal of the Pakistan medical association* **68**(5) 780-782 (2018) (IBMS-Int) 0.781 W <https://doi.org/10.5812/intjcardiovaspact-131154>
28. Muhammad Ismail Khan, Soyeon Choi, Muhammad Zahid, Habib Ahmad, **Roshan Ali**⁵, Musharraf Jelani, Changsoo Kang Whole-exome sequencing analysis reveals co-segregation of a COL20A1 missense mutation in a Pakistani family with striate palmoplantar keratoderma *Genes and Genomics* **40**(7) 789-795 (2018) (IBMS-Int) 1.839 W <http://doi.org/10.1007/s13258-018-0695-z>

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

2017 (1/4)

29. Asmat Shaheen*, Salim Khattak, **Roshan Ali**³, Muhammad Tahir Sarwar, and Rubina Nazli Severity of Periodontitis in Diabetes Mellitus Type-2: Obese and Non-Obese Subjects *Advances in Basic Medical Sciences* **1**(1) 26-29 (2017) (IBMS-Nat): Republished and Available Online (Published in 2015 by the same journal: Available only Offline) **NA Y**
- a. Asmat Shaheen*, Salim Khattak, **Roshan Ali**³, Muhammad Tahir Sarwar, and Rubina Nazli Severity of Periodontitis in Diabetes Mellitus Type-2: Obese and Non-Obese Subjects *Advances in Basic Medical Sciences* **1**(1) 32-35 (2015) (IBMS-Nat)
30. Asmat Shaheen, Zahoor Ahmed, Musarrat Jabeen, Rubina Nazli, **Roshan Ali**⁵ Correlation Of Maternal Circulating Visfatin Level With Clinical And Biochemical Parameters In Pre-Eclampsia *Khyber Journal of Medical Sciences* **10**(1) 109-114 (2017) (IBMS-Nat) **NA Y**
31. Asmat Shaheen, Mohammad Bashir, Muhammad Ashraf, Sofia Iqbal, Salim Khattak, **Roshan Ali**⁶ Periodontitis and Blood Glucose Level in Obese and Non Obese Type-2 Diabetic Patients *Pakistan Journal of Medical & Health Sciences* **11**(4) 1436-1437 (2017) (IBMS-Int) **NA 0**
32. Rehana Yasmin, Mohsin Shah*, Saeed Ahmad Khan, **Roshan Ali**⁴ Gelatin nanoparticles: a potential candidate for medical applications *Nanotechnology Reviews* **6**(2) 191-207 (2017) (IBMS-Int) **7.848 W** <https://doi.org/10.1515/ntrev-2016-0009>

2016 (2/4)

33. Asmat Shaheen, **Roshan Ali**², Rubina Nazli, Muhammad Tahir Sarwar Risk Factors Of Pre-Eclampsia, Eclampsia And Its Adverse Outcomes In Low- And Middle-Income Pregnant Females *Khyber Medical University Journal* **8**(4) 180-183 (2016) (IBMS-Nat) **NA Y**
34. Asmat Shaheen*, Salim Khattak, Zahoor Ahmed, Musarrat Jabeen, Rubina Nazli, **Roshan Ali**⁶ Circulating Visfatin Level And Its Association With Lipid Biomarkers In Pregnancy Induced Hypertension *Gomal Journal of Medical Sciences* **14**(4) 213-217 (2016) (IBMS-Nat) **NA Y**
35. Asmat Shaheen, Rubina Nazli*, **Roshan Ali**³ Adipokine Serum visfatin level in pregnancy induced hypertension and uncomplicated pregnancy *Pakistan Journal of Medical Science* **32**(6) 1419-1424 (2016) (IBMS-Int) **1.088 W** [10.12669/pjms.326.10917](https://doi.org/10.12669/pjms.326.10917)
36. Muhammad Waqas Luqman*, **Roshan Ali**², Zahid Khan, Muhammad Haris Ramzan, Fazal Hanan, Usama Javaid Effect of topical application of hard water in weakening of hair in men *Journal of the Pakistan Medical Association* **66**(9) 1132-1136 (2016) (IBMS-Int) **0.781 W PMID: 27654734**

2015 (0/1)

37. Asmat Shaheen*, **Roshan Ali**², Rubina Nazli, Tahir Sarwar Risk Factors of Pre-Eclampsia/Eclampsia and Its Adverse Outcomes in Low- and Middle-Income Families *Khyber Medical University Journal* **7**(4) (2015) (IBMS-Nat) **NA Y**
- Muhammad Ashfaq Khan, Amjad Hassan, Tayyab-ur-Rahman, Abid Ali and **Roshan Ali**^{1*} α -Gliadin Peptides Interactions with HLA-DQ2 Molecule: A Trigger of Adaptive Immunity in Celiac Disease *Advances in Basic Medical Sciences* **1**(2) 54-62 (2015) (IBMS-Nat-Main)

2014 (0/4)

38. Jamil Khan, Bakhtiar Muhammad, Muhammad Aurangzaib Khan, Zahid Hussain, Saeed Ullah Khattak*, Nafees Bacha, Faheem Ullah, Ghosia Lutfullah and **Roshan Ali**⁹ Effect Of Forest Fire On The Chemical Composition Of The Soil Of Margalla Hills Of Pakistan. *Pakistan Journal Of Weed Science Research* **20**(2) 213-223 (2014) (IBMS-Nat) **NA X**
39. Abid Ali, Tayyabur Rehman and **Roshan Ali**^{1*} Analysis of Oxygen Affinity of the Major Hemoglobin Component HbA from Aquila chrysaetos (Golden Eagle). *Journal of Natural Sciences Research* **4**(9) 55-61 (2014) (IBMS-Int-Main) **NA 0**
40. Abid Ali, Tayyab Rehman, Hamid Ur Rehman and **Roshan Ali**^{1*}. Analysis of oxygen affinity in aquatic Amphibian: Homology modeling of the major hemoglobin component HbA from *Ambystoma mexicanum*. *International Journal of Computational Bioinformatics and In Silico Modeling* **3**(3) 369-373 (2014) (IBMS-Int-Main) **NA 0**
41. Abid Ali, Tayyab Rehman*, Naeem uddin Ahmad, **Roshan Ali**⁴ and Syed Aizaz Ali Shah. Active Sites and Potential Inhibitors Prediction for Nonstructural 4A Protein of Dengue Virus. *International Journal of Computational Bioinformatics and In Silico Modeling* **3**(2) 340-346 (2014) (IBMS-Int) **NA 0**

2013 (0/3)

42. Muhammad Ashfaq Khan* and **Roshan Ali**². Hepatic Stellate Cells in the Context of Liver Fibrosis. *Khyber Medical University Journal* **5**(3) 156-161 (2013) (IBMS-Nat) **NA Y**
43. Wahid Hussain*, Javid Hussain, Sajid Hussain, Zabta Khan Shinwari, **Roshan Ali**⁵ and Abdul Baseer. Ethno Medicinal Study of Kurram Valley (FATA) KPK, Pakistan. *Journal of Applied Pharmaceutical Science* **3**(11) 85-88 (2013) (IBMS-Nat) **NA X**
44. **Roshan Ali**^{1*}, Ghosia Lutfullah, Abid Ali Khan, Muhammad Ibrahim Rashid. Analysis of Oxygen Affinity in Aquatic Amphibian; Homology Modeling of the Major Hemoglobin Component HbA1 from the African Clawed Frog (*Xenopus laevis*, Anura). *International Journal of Bioinformatics Research and Applications* **9**(5) 449-461 (2013) (IBMS-Int-Main) **NA Y**

2012 (0/4)

45. Wahid Hussain, Javid Hussain*, **Roshan Ali**³, Sajid Hussain, Muhammad Ashfaq Khan, Ikhtiar Khan, Zabta Khan Shinwari, Wilson Araujo Lopes and Iracema Andrade Nascimento. Phytomedicinal Studies of Kurram Agency in the Federally Administered Tribal Areas (FATA) of Pakistan. *Journal of Applied Pharmaceutical Science* **2**(10) 81-85 (2012) (IBMS-Nat) **NA X**
46. Wahid Hussain, Javid Hussain*, **Roshan Ali**³, Ikhtiar Khan, Zabta Khan Shinwari and Iracema Andrade Nascimento. Tradable and Conservation Status of Medicinal Plants of Kurram Valley, Parachinar, Pakistan. *Journal of Applied Pharmaceutical Science* **2**(10) 66-70 (2012) (IBMS-Nat) **NA X**

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

47. Muhammad Ashfaq Khan, Javid Hussain, **Roshan Ali**^{1*}. Structural and Functional Analysis of Seeligeriolysin O by Homology Modeling. *African Journal of Biotechnology* **11**(80) 14595-14602 (2012) (IBMS-Int-Main) [NA Y](#)
48. Javid Hussain*, Jehangir shah, Wahid Hussain, **Roshan Ali**³, Leandro Jesus Sousa, Wilson Araujo Lopes, Ikhtiar khan and Iracema Andrade Nascimento. Evaluation of the Quality of Drinking Water of Mardan District, KPK, Pakistan. *American-Eurasian Journal of Agricultural & Environmental Science* **12**(8) 1047-1051 (2012) (IBMS-Int) [NA 0](#)

2011 (2/5)

49. Ajab Khan, Salman Akbar Malik, Abid Ali Khan, Ashfaq Ahmad and **Roshan Ali**^{1*}. Effect of Tobacco (Smoking and Snuffing) in Type 2 diabetic patients. *International Journal of Food Safety, Nutrition and Public Health*, **4**(2/3/4) 196-204 (2011) (IBMS-Int-Main) [NA](#)
50. Zahid Khan, **Roshan Ali**², Noreen Azhar and Ghosia Lutfullah*. Phylogenetic Analysis of Birds, Using Concatenated Sequences of Hemoglobin Alpha-A, Beta and Cytochrome-B. *Peshawar University Teacher Association Journal Sciences*, **18** 203-224 (2011) (COBAM-Nat) [NA Y](#)
51. Ashfaq Ahmad*, Ghosia Lutfullah and **Roshan Ali**³. Structural and Functional Features of Streptolysin O. *International Journal of Bioinformatics Research and Applications*, **7**(4) 427-444 (2011) (COBAM-Int) [NA Y](#)
52. **Roshan Ali**^{1*}, Ghosia Lutfullah, Zahid Khan, and Ashfaq Ahmad. Homology Modeling of Ring Necked Pheasant (*Phasianus colchicus*, Galliformes) major Hemoglobin component (HbA). *Journal of the chemical society of Pakistan* **33**(4) 539-544 (2011) (COBAM-Int-Main) [0.536 W](#)
53. **Roshan Ali**¹, Ghosia Lutfullah*, Zahid Khan, and Ashfaq Ahmad. Homology Modeling of Ring Necked Pheasant (*Phasianus Colchicus*, Galliformes) Minor Hemoglobin Component. *Journal of the Chemical Society of Pakistan* **33**(3) 379-388 (2011) (COBAM-Int-Main) [0.536 W](#)

*Corresponding author

Papers Reviewed

1. Antibacterial activities of the crude extract and compound isolated from (*Cladosporium carrionii*) (Brazilian Journal of Microbiology 2013) [BJM-2013-0736](#)
2. Comparative Analysis Of Vitamin B12 Levels And Effects Of Its Deficiency In Various Clinical Conditions (Khyber Medical University Journal 2013)
3. Structural comparison of native and mutated matrix protein of nipah virus (British Biotechnology Journal 2013).
4. Effect of combined oral contraceptive pills on Lipid Metabolism in Childbearing age Women (Khyber Medical University Journal 2013)
5. Structure prediction and homology modelling of Superoxide Dismutase from *Pisum sativum*: An In Silico approach (African Journal of Biotechnology 2012).

Thesis Evaluated

1. MS Thesis Agricultural University Peshawar by Rameen Nadeem September 2019
2. MPhil Thesis University of Peshawar Dr. Zahid Student. 2019 January
3. Four BS Bioinformatics thesis from benazir bhatu Shaheed university in May 2018
4. Dr Zahid student, University of Peshawar in 2017
5. Two Students BS, Benazir bhatu Shaheed university (2016)
6. MPhil: Serological and Molecular Study of *Toxoplasma gondii* in Goats and Their Possessors in Parachinar Kurram Agency. By Nabeela Shaukat supervised by Dr. Zahid Khan Institute of Chemical Sciences, University of Peshawar (2016)
7. MPhil: Screening of Durum Wheat advanced lines through starch characterization and nutritional analyses by Miss Tahira Naz supervised by Dr. Zahid Khan Institute of Chemical Sciences University of Peshawar (2015)
8. MPhil: by Mr. Muslim Raza supervised by Dr. Imdadullah Institute of Chemical Sciences University of Peshawar (2015)
9. MPhil: Proximate composition, phytochemical, antimicrobial and phytotoxic evaluation of *Mangifera indica* wastes by Mr. Tofail Arshad supervised by Dr. Zahoor Department of Chemistry University of Malakand Chakdara Dir. (May 20 to June 6, 2013).
10. MPhil: Comparative Study of Different Metals in Rocks of Heroshah Malakand Agency by Mr. Farman Ullah supervised by Dr. Muhammad Zahoor. (June , June 28, 2013)

Viva Voce

1. MPhil Viva UOP 2021
2. MS Viva Rameen Nadeem Agriculture University Peshawar September 27, 2019
3. MPhil Viva Dr. Zahid MPhil student UPesh, January 31, 2019
4. Four BS Bioinformatics Students of Benazir Bhatu Shaheed University on May 3, 2018
5. Two Students of Dr Tahir Sarwar in March 2018
6. Zahid student Viva 2017
7. Biochemistry viva, Instrumental, Institute of Chemical Sciences, MSc, University of Peshawar on August 29, 2016
8. Bioinfo viva, Benazir bhatu Shaheed university on May 24, 2016 (3students)
9. Biochemistry viva, Instrumental, Institute of Chemical Sciences, MSc, University of Peshawar on December, 2015
10. Biochemistry viva, Instrumental, Institute of Chemical Sciences, MSc, University of Peshawar on December, 2015

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

11. Biochemistry viva, Instrumental, Institute of Chemical Sciences, MSc, University of Peshawar on September 1, 2015
12. Biochemistry viva, MPhil student Tahira Naz, ICS, University of Peshawar on August 25, 2015
13. Biochemistry viva, Institute of Chemical Sciences, MPhil, University of Peshawar on May 15, 2015
14. Biochemistry viva, Institute of Chemical Sciences, University of Peshawar (Dated)
15. MLT first semester Rehman Medical College, computer (January 18, 2014)
16. Biochemistry special practical (MSc) department of biochemistry, institute of chemical sciences, University of Peshawar. (September 18, 2013)
17. Biochemistry BS Department of Pharmacy, Kohat University of Science and Technology. (July 2, 2013)
18. Biochemistry MPhil Department of Biochemistry, Institute of Chemical Sciences, University of Peshawar. (2013)

Papers Setting

19. Biochemistry and Biochemical Techniques, University of Malakand 2015
20. Microbiology and Immunology Institute of Chemical Sciences, University of Peshawar 2014
21. Microbiology and Immunology Institute of chemical sciences, University of Peshawar 2013
22. Entry test MCQs for MPhil applicants to IBMS biochemistry department 2013
23. Nursing 4 years first semester Biochemistry Paper 2013
24. Malakand University Master Paper Biochemistry Nutrition 2012
25. KGMC MPhil Bioinformatics Paper 2012

Papers Checking

26. University of Peshawar Biochemistry Papers Master 2018
27. University of Peshawar Biochemistry Papers Master 2014
28. University of Peshawar Biochemistry Papers Master 2013
29. Malakand University 3 Biochemistry Papers Master 2012
30. University of Peshawar Biochemistry Paper Master 2012

Committee Member

31. Scrutiny committee 2021
32. Subject Expert in University Selection Board 2019
33. Assistant and Associate Professor's Scrutiny Committee member 2018
34. Committee member 2017
35. Committee member 2017
36. Scrutiny Committee for MPhil PhD students for IBMS 2012

Interviews Panel

37. IBMS Subject Expert in USB 2019
38. IBMS Biochemistry interview selection 2013

Research Projects

Role	S.No	Title	Start date	Complete date	Funding source	Status	Publications	
PI	1	Analysis of the interaction of epigallocatechin-3-gallate from green tea and other similar compounds with the envelope protein of hepatitis C virus		Dec-2018	HEC	Completed		
Co-PI	1				DoST	Unknown		

Teaching experience

1. Director/Incharge Institute of Health Sciences, Kurram, KMU, Parachinar (March 9, 2022-Present)
2. Associate professor of Biochemistry at IBMS, Khyber Medical University, Peshawar (January 11, 2022-Present)
3. Assistant professor of Biochemistry at IBMS, Khyber Medical University, Peshawar (June 1, 2011-January 10, 2022)
4. Visiting faculty of Biochemistry at Institute of Nursing Sciences, KMU (February 2014-December 2021)

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

5. Visiting faculty of Biochemistry at Rehman Medical College (RMC) (December 3, 2016-March 2022)
6. Visiting faculty of Biochemistry at Institute of Physical Medicines and Rehabilitation (IPMR) (February 2014-March 2022)
7. Visiting faculty of Bioinformatics in Khyber Girls Medical College, Peshawar (September 26, 2012-September 2018)
8. Visiting faculty of Biochemistry at North West Institute of Health Sciences (October 14, 2017-November 14, 2017)
9. Visiting faculty of Biochemistry in Post Graduate College of Nursing, KMU (February 23, 2012-February 2014 & January 28, 2017-July 2017)
10. Visiting faculty of Biochemistry at Mehboob Center of Physiotherapy (MCP) (August 25, 2016-July 2017)
11. Lecturer at Forward Degree College, Hayatabad, Peshawar (September 1, 2009-January 31, 2010)
12. Volunteer teacher of Biochemistry for almost two years in the Center of Biotechnology, University of Peshawar, Pakistan (2005-2006)
13. Teacher for almost a year at Chinar Public High School, Parachinar, Pakistan (Discrete-visiting)

Fellowships and Awards

Languages

Pashto (Native), Urdu (very good), English (Good), Hindi (Not bad)

Conferences, Symposium, Seminars, workshops and other awards

Awards

National

1. Certificate of appreciation on excellence in teaching at Institute of Basic Medical Sciences in spring 2016, received on December 19, 2017
2. Certificate of appreciation on excellence in teaching at Institute of Physical Medicine and Rehabilitation in spring 2016, received on December 19, 2016
3. Certificate of appreciation on excellence in teaching at Institute of Basic Medical Sciences in spring 2016 on August 14, 2016
4. Certificate of appreciation on excellence in teaching at Institute of Physical Medicine and Rehabilitation in spring 2016 on August 14, 2016
5. Third position in Oral presentation on "Analysis of oxygen affinity in aquatic amphibian; homology modelling of the major haemoglobin component HbA1 from the African Clawed Frog (*Xenopus laevis*, Anura). At Khyber Medical University, Pakistan, on April 30, 2016
6. Indigenous PhD fellowship by HEC Pakistan (GRE Score: 57%, Commonwealth GRE score was 60%) (February 2005-February 2009)

International

7. International Research Initiative Program fellowship for six months to The Penn State University, USA by the Higher Education Commission of Pakistan (From March 23, 2008 to September 23, 2008)

Presenter

National

Seminars

8. Seminar on Bioinformatics at CECOS University, Peshawar on May 20, 2015
9. Presented a seminar on EndNote use and its applications at Institute of chemical sciences, University of Peshawar on January 29, 2015
10. A seminar on "Gene Therapy" at the Center of Biotechnology and Microbiology, University of Peshawar, Pakistan. April, 2006

Workshops

11. Citation management using EndNote and Mendeley, at IBMS, KMU on April 24, 2017
12. The Basics of R Programming at KMU on April 7, 2017
13. On "Citation management using EndNote, Mendeley and Zotero" at IBMS, KMU on April 29, 2016
14. Presented in workshop on Primer Designing in Silico at IBMS, KMU on May 5, 2015
15. Presented in workshop on Primer Designing in Silico at KMC on April 29, 2015
16. Presented in workshop on EndNote at IPMR, KMU on February 27, 2015
17. Presentation on "Primer Designing in silico" at IBMS, KMU February 27, 2015
18. Presentation on "Primer Designing" at IBMS, KMU August, 2014
19. Presentation on "Primer Designing" at IBMS, KMU June 2, 2014
20. Oral presentation on Bioinformatics and Molecular Medicine in a pre-conference in IBMS on February 14, 2014
21. Presentation on Dry Lab Research at IBMS, KMU, Peshawar on February, 16, 2013.
22. workshop presented on Endnote operation at IBMS, KMU September 1, 2012

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

23. Presentation on “sequencing and analysis of a cDNA encoding a putative coclaurine n-methyltransferase from *Aristolochia fimbriata*, a basal angiosperm” in 3rd national symposium held in Institute of basic medical sciences Khyber medical university Peshawar February 17-18, 2012.

Conferences

24. Oral presentation on “Analysis of oxygen affinity in aquatic amphibian; homology modelling of the major haemoglobin component HbA1 from the African Clawed Frog (*Xenopus laevis*, Anura). At Khyber Medical University, Pakistan, on April 30, 2016.

International

Workshops

25. 1st International Basic Medical Sciences Conference at Khyber Medical University on October 23-25, 2018
26. Workshop on EndNote/Mendeley at IPMR, KMU on April 3, 2015

Organizer

National

Workshops

27. Seminar on Recent Advancements in Cellular Programming, Re-Programing and Tissue Engineering on October 24, 2016.
28. Workshop on Biorisk Management at IBMS, KMU on February 15-19, 2016
29. Organized and presented in “Training workshop on PCR” at IBMS, KMU on February 27, 2015
30. Organized and presented in “Training workshop on PCR” at IBMS, KMU on August 2-4, 2014
31. Organized and presented in “Training workshop on PCR” at IBMS, KMU on June 2-4, 2014

International

None

Participant

National

Conferences

32. 39th Annual PAP conference & 4th joint conference of society of Pathology at Khyber Medical University on November 25-26, 2016.
33. Conference entitled “Standardizing medical education in Pakistan: A national agenda” at Khyber Medical University on March 5-6, 2016.
34. Participated in the 6th Annual health research conference at KMU on February 28-March 1, 2015
35. Participated in “2nd conference on emerging trends in bioinformatics and computational biology” in Muhammad Ali Jinnah University Islamabad on June 7, 2014

Seminars

36. Biochemistry Research Day 2018 at Khyber Medical University on April 25, 2018
37. Mass Media Campaign for Timely Detection, Management and Prevention of Gestational Diabetes Mellitus in Pakistan at Khyber Medical University, on January 11, 2017
38. Attended Seminar on Zoonotic diseases at IBMS, KMU 2014
39. Attended one day short course on “How to write a technical research paper” at Millitary College of Signal, NUST Rawalpindi on February 18, 2014

Symposiums

40. Complete Blood Counts-Principles, clinical interpretation and recent advances at Khyber Medical University on September 19, 2019
41. Biochemistry Research Symposium 2019 on March 14, 2019
42. 1st symposium on Recent updates in the pathogenesis of preeclampsia at Khyber Medical University on March 29, 2018
43. “Research methodology and Biostatistics” at North West General Hospital on May 14, 2016
44. Attended three days conference of Annual Health Research Symposium 2013, held at Khyber Girls Medical College on February 14-16, 2014
45. Attended one day symposium on “Hepatitis Epidemic and Control Strategies in KP” at Pearl Continental Hotel Peshawar on September 4, 2013.

Workshops

46. Research paper writing using LaTeX software at Military College of Signals, NUST held on March 28, 2018
47. Micro-Feedback skills workshop at Institute of health professions education and research, KMU on May 23, 2017
48. Workshop on Molecular Dynamics Simulations at University of Peshawar on February 6, 2017
49. Basics of Systematic Review and Meta Analysis at Khyber Medical University, on January 27, 2017
50. Principles of Biostatistics and Hands on Training on SPSS at Khyber Medical University on January 27, 2017
51. Pre-conference workshop on39th Annual PAP conference & 4th joint conference of society of Pathology at Khyber Medical University on November 24, 2016.
52. 7th one day workshop on “Significance of Bioinformatics in life Sciences” at Capital University of Science and Technology, Islamabad, Pakistan, on May 7, 2016.
53. Workshop entitled “Going beyond original research article: Exploring other forms of research writings” at Khyber Medical University on March 4, 2016

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

54. Workshop entitled "Conducting qualitative research" at Khyber Medical University on March 4, 2016
55. Computational Chemistry Workshop: A New Approach to Understanding and Solving Chemical Problems organized by Forman Christian College, Lahore, Pakistan on January 20-22, 2016.
56. Workshop on Next Generation Sequencing at IBMS, KMU on 2015
57. SPSS Training Workshop at Crown Plaza Hotel, Islamabad by Shaheen Research Group on September 19-20, 2015.
58. Attended workshop on bioinformatics at Muhammad Ali Jinnah University, Islamabad on May 9, 2015.
59. Participated in the workshop on recent advances and new horizons in chemistry in national centre of excellence in physical chemistry, University of Peshawar on April 6-7, 2015
60. Certificate of participation in a one day workshop on "Training Course for Editors on Medical Journal's Publishing" held at Institute of Basic Medical Sciences, Khyber Medical University, Peshawar, Pakistan on September 16, 2012.
61. Certificate of participation in a two-day workshop on "Bioinformatics in Medicine" held at Institute of Basic Medical Sciences, Khyber Medical Sciences, Peshawar, Pakistan on May 14-15, 2012.
62. Certificate of participation in a two-day workshop on "Annual Health Research Symposium 2011" held at Institute of Basic Medical Sciences, Khyber Medical University, Peshawar, Pakistan on February 17-18, 2012.
63. Certificate of Professional Development for attending "Incorporating Technology in Education" held at IPMR, Khyber Medical University, Peshawar, through January 09-24, 2012.
64. Certificate of Participation in a 4-day taster trainers workshop on Testing and assessment held at IBMS, KMU, Peshawar through October 17-20, 2011
65. Certificate of participation in a two-day workshop on "research ethics" held in LRH organized by KMU July 20-21, 2011.

International Conferences

66. 6th International Conference on Health Professions Education & Research at KMU, Peshawar on April 19, 2018
67. 5th International Conference on Health Professions Education & Research at KMU, Peshawar on April 7-9, 2017
68. Participation in 3rd International Conference in Medical Education and Research 2015 in KMU on April 4-5 2015
69. Participation in 2nd International Conference in Medical Education and Research 2014 preconference workshop on "Evaluating problem based learning scenarios" in IHPE&R on April 18-20 2014
70. Participation in 2nd International Conference in Medical Education and Research 2014 preconference workshop on "How to develop integrated module-I" in IHPE&R on April 18-20 2014
71. Attended "International Conference on Medical Education and Research 2013" at IBMS, KMU, Peshawar on April 12-14, 2013.

Symposiums

72. Certificate of contribution of Three-day International Symposium on "Basic Techniques in Research, Dissertation and Paper Writing in Life Sciences" held in Hazara University from July 27-29, 2010.
73. Certificate of Participation in 9th International Symposium on "Protein Structure Function Relationship" at the International Center of chemical and Biological January 11-14 2007.

Workshops

74. How to publish in an impact factor journal in 6th International conference on health professions education and research at Khyber Medical University on April 19, 2018
75. Workshop on "Quantitative Data Analysis Using SPSS" in Pre-Conf Workshop during 9th International Annual Health Research Conference at KMU, Peshawar on March 5-7, 2018
76. Certificate of Participation in Workshop on "Characterization of Proteins" at the International Center of chemical and Biological Sciences, HEJ Research Institute of Chemistry, University of Karachi, Pakistan January 15-22 2007.

Courses Certificates

77. IELTS Certificate
78. English language certificate
79. Computer course certificate
80. Social work certificate

Computer and Bioinformatics Skills

General

1. Basics of Computers i.e. DOS, Windows, Ubuntu (Linux), Linux mint, Mac, Installations and Hard disk Partitions management etc.
2. MS Office (Access, Excel), Open Office, Photoshop and other common programs.
3. SPSS

Bioinformatics Related

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

4. Megan
5. Homology Modeling with MODELLER and Online Servers, Model evaluation and analysis using ProSa, Procheck, Ligplot etc.
6. Evolutionary Tree Building with MEGA and Clustal X.
7. Multiple Alignment by Clustal X, Clustal W and BioEdit.
8. Restriction site analysis using CLC sequence viewer and Restrictionmapper.
9. Primer Designing by Premier Primer and by online server Invitrogen, PrimerBlast, Primer3Plus etc.
10. Protein Ligand Docking with the help of online servers such as Patch-Dock, iDock, Swiss Dock and offline tools such as Autodocktools (Autodock and Autogrid), Vina etc.
11. Virtual screening of targets and ligands using online servers such as iDock, Phrammapper, and offline such as PyRx etc.
12. Bibliographic arrangement with the help of EndNote, Mendeley, Zotero and other online servers.
13. Other bioinformatics tools used are; Vina, Yasara, CLC sequence viewer, DS visualizer, Fast PCR, Finch TV, Ligand Explorer and Ugene etc.
14. Typing speed: 35 wpm

Programming Languages

15. R-Programming language (Advanced)
16. Python3 Scripting (Very good)
17. HTML (Good)
18. MongoDB (Good)
19. Perl6 Scripting (Above Basic)
20. Windows PowerShell (Basic)
21. VBA (Basic)
22. SQL (Above4 Basic)
23. JavaScript (Basic)
24. Linux shell (Basic)
25. Interested in learning Java.
26. LaTeX (MikTex)

Foreign Countries Visited

1. Six months visit to The Pennsylvania State University, USA for research work.
2. Two-day stay in Afghanistan.

Journal Reviewer and Editor

1. ABMS Journal Reviewer
2. Reviewer for Khyber Medical University Journal

Hobbies

1. Learning computer programming languages
2. Watching Physics, Technology and Astronomy news and videos
3. Playing with Mathematics and Statistics
4. Books collection and reading on various topics
5. Browsing the internet for fun
6. Listening to music, watch movies
7. Fun Photography
8. English and Urdu calligraphy.

MPhil Supervision

S.No	Name	Class	Institute	From	To	Status	Publications
1	Muhammad Waqas Luqman	MPhil	IBMS, KMU, Bio	2014	28-Aug-2015	Completed	2
2	Fahad Mahmood Ahmad	MPhil	IBMS, KMU, Bio	2012	21-Oct-2015	Completed	1

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

3	Muhammad Razaq	MPhil	IBMS, KMU, Bio	2013	30-Dec-2016	Completed	
4	Fareena Shahid	MPhil	IBMS, KMU, Bio	2015	26-Feb-2018	Completed	1
5	Muhammad Iqbal	MPhil	IBMS, KMU, Bio	2013	26-Apr-2018	Completed	1
6	Noreen	MPhil	IBMS, KMU, Bio	2016	18-Oct-2018	Completed	1
7	Parkha Tariq	MPhil	IBMS, KMU, MBG	2017	22-Jan-2019	Completed	
8	Lubna Bibi	MPhil	IBMS, KMU, Bio	Jan-2017	15-May-2019	Completed	
9	Somaira Jabeen Shah	MPhil	IBMS, KMU, Bio	2015	Oct 18, 2021	Completed	
11	Khushnuma	MPhil	IBMS, KMU, MBG		Dec 21, 2021	Completed	
10	Anila Hidayat	MPhil	IBMS, KMU, Bio			In Progress	
12	Johar Shehzad	MPhil	IBMS, KMU, MBG	Nov-2020		In Progress	
13	Fahad	MPhil	IBMS, KMU, MBG	2024		In Progress	
14	Mayra Khan	MPhil	IBMS, KMU, MBG	2022	Nov 1, 2024	Completed	
15	Suman Rashid	MPhil	IBMS, KMU, MBG	2023	Feb 18, 2025	Completed	
16	Shafiullah	MPhil	IBMS, KMU, MBG	Feb 2025			
17	Beenish Kamil	MPhil	IBMS, KMU, MBG	Feb 2025			
18	Kashmala Nawaz	MPhil	IBMS, KMU, MBG	Feb 2025			
19	Mahnoor Bashir	MPhil	IBMS, KMU, MBG	Feb 2025			
20	Rizwan Rahmat	MPhil	IBMS, KMU, MBG	Feb 2025			
21	Sundas Ajmal	MPhil	IBMS, KMU, MBG	Feb 2025			
22	Tanzila Zahid	MPhil	IBMS, KMU, MBG	Feb 2025			
PhD Supervision							
6	Shumaila Wadood	PhD	IBMS, KMU, Bio	2016	Jan 28, 2025	Completed	
7	New PhD Scholar	PhD	IBMS, KMU, Bio	Jan-2017			
8	Haseena	PhD	IBMS, KMU, Bio	2024		Course Work Completed	
Co-Supervision							
1	Muhammad Ashfaq Khan	MS	Comsats, Abbotabad	2010	2012	Completed	
2	Asmat Shaheen	PhD	IBMS, KMU	2013	2018	Completed	6
3	Hina Nayab	MPhil	IBMS, KMU	2015	May 2016	Completed	

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *

4	Zubaida	PhD	IBMS, KMU	2012		Unknown Status	
5	Summera Aziz	BS	Shaheed Benazir Bhutto University	2015	2016	Completed	
6	Meher un Nisa	BS	Shaheed Benazir Bhutto University	2015	2016	Completed	
7	Shahbaz Khan	MPhil	IBMS, KMU	2016		Completed	
8	Shama Iqbal	MPhil	Biochem, Upesh	2013		Unknown Status	
9	Mehwish Arif	MPhil	Micro, IBMS	2018		Completed	
10	Shoib	MPhil			2021	Completed	
11	Shoib Friend	MPhil			2021	Completed	
12	Shoib Friend	MPhil			2021	Completed	
13	Hilal Ahmad	PhD			Sept 13, 2024	Completed	

Degree	Group	School/College/University	Board/University	First Day	Exam Start	Exam End	Result	Roll No.	Session	Reg	Serial	Marks
Nursery	Primary	Government Primary School No.1, Parachinar	Parachinar	29/03/1986	3/1987	3/1987	31/3/1987		1986			Pass
Middle	Technical	Government High School Zeran, Parachinar	BISE Peshawar	11/04/1994	13/3/1995	28/3/1995			1995			519/800
SSC	Science	Government High School Zeran, Parachinar	BISE Peshawar	11/04/1995	16/03/1997	07/04/1997	05/07/1997	154590	Annual 1997	4-B/PK-97	002680	609/850
FSc	Pre-Medical	Government Degree College Parachinar	-do-	21/08/1997	19/03/1999	31/03/1999		153910	Annual 1999	-do-	43376	667/1100
BSc	Biological Sciences	-do-	University of Peshawar	26/11/1999	26/06/2001	30/07/2001	25/09/2001	6521	Annual 2001	99-PK-1732	022514	355/550
MSc	Chemistry (Biochemistry)	Department of Chemistry, University of Peshawar	-do-	12/11/2001	29/08/2003	30/09/2003	30/03/2004	2735	Annual 2003	-do-	009210	745/1200
BEd	Foundations of Education	Khyber Institute of Education, Peshawar	-do-	01/10/2003			25/12/2004	1392	Annual 2004	-do-	016971	590/1000
PhD	Biotechnology (Biochemistry and Molecular Biology)	Center of Biotechnology and Microbiology, University of Peshawar	-do-	01/15/2005	18/02/2011	18/02/2011	17/03/2011	5	2004/2005	-do-		3.8/4
CHPE	Health Education	HPHEHS, Khyber Medical University, Peshawar	Khyber Medical University						2013-29	2013/KMU/CHPE-7/10	CHPE-13-48	Pass

References

Note: References could be obtained from the following referees on request and permission

1: Dr. Jawad Ahmad

Life Sciences Building, The Penn State University, USA

bjbliss@gmail.com

Egypt

Director
Institute of basic medical sciences, Khyber medical university, Peshawar, Pakistan

Cwd3@psu.edu

6: Dr. Tayyab ur Rehman

Institute of Basic Medical Sciences, Khyber Medical University, Peshawar

Tayyab.ibms@kmu.edu.pk

J62ahmed@yahoo.com

4: Dr. G. Lutfullah

Center of Biotechnology and Microbiology, University of Peshawar, Pakistan

7: Dr. Zahid Khan

Institute of Chemical Sciences, University of Peshawar, Pakistan

Zahidchem2002@yahoo.com

2: Dr. S. Mustafa

National Center of Excellence in Physical Chemistry, University of Peshawar, Pakistan

Ghosia_lutfullah@yahoo.com

5: Dr. Barbara Bliss

Research at the Penn State University, USA in 2008

8: Dr. Ahmad Enab

3: Dr. Claude dePamphilis

Department of Biology, Huck Institute of Life Sciences,

ROSHAN ALI S/O MUSLIM JAN

Cell *+92-3459122290 * E-Mail * roshan_a5@yahoo.com * roshanali.ibms@kmu.edu.pk *
