

WALAYAT SHAH

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Personal

• Father's Name	Meerom Shah
• Qualification	PhD Pathology & Pathophysiology
• Date of Birth	15 th of July 1979
• Religion	Islam
• Marital Status	Married
• Nationality	Pakistani
• N.I.C	2170441351621
• Domicile	South Waziristan Agency (SWA)
• Present Mailing Address	Institute of Basic Medical Sciences, Khyber Medical University, Peshawar Pakistan
• Permanent Mailing Address	Village Gurgura Tehsil & Post Office Sararogha, South Waziristan Agency
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Academics

- 📖 Ph.D. Pathology from Xi'an Jiaotong University Xi'an China 2005-2009.
 - **Thesis Title:** *Correlation of Human Papillomavirus Type and Tumor Infiltrating Lymphocytes with the Prognosis and Survival of Cervical Cancer Patients-A Retrospective Study*
- 📖 M.Phil. Biology (Developmental Biology), from Quaid-I-Azam University Islamabad Pakistan (2002-2004), scoring 85 % (1st division / A-Grade).
- 📖 M.Sc. Biology (Animal Sciences), from Quaid-I-Azam University Islamabad Pakistan (2000-2001), scoring 83 % (1st division / A-Grade).
- 📖 B.Sc. (Biological Sciences, Chemistry), from Gomal University, D.I.Khan N.W.F.P. Pakistan (1998-1999), scoring 65 % (1st division / B-Grade).
- 📖 F.Sc. (Pre-Medical Subjects), from B.I.S.E, Bannu, N.W.F.P. Pakistan (1996-1997), scoring 68 % (1st division / B-Grade).
- 📖 Matriculation (Science Subjects), from B.S.E, Karachi Pakistan (1993-1994), scoring 64% (1st division / B-Grade).

Distinctions/Awards

- ✌ Merit Scholarship in M.Phil.
- ✌ Ph.D. Scholarship from Higher Education Commission of Pakistan.
- ✌ Research Productivity Award 2012-13 by Pakistan Council for Science and Technology

Research Experience

- Feb. 2002 to Aug. 2004, as an M.Phil. Student of Developmental Biology at Quaid-I-Azam University Islamabad Pakistan.
- Nov. 2005 to Jan. 2010, as a Ph.D. Student of Pathology & Pathophysiology at Institute for Cancer Research Xi'an Jiaotong University China.
- **Instruments & Techniques:**
Various Histological Techniques such as Microtomy, Permanent slide preparation, Microscopy, Microphotography and Immunohistochemical staining. Genomic DNA Extraction and Purification from Mammalian Blood and Tissues, Plasmid DNA Extraction, Agarose and polyacrylamide Gel Electrophoresis, PCR, and Cell Culture.

Teaching Experience

- Lecturer in Biology (Sept. 2003 to May 2004) Government Degree College Mir Ali, North Waziristan Agency.
- Lecturer in Biology (Sept. 2004 to July 2005) Government Degree College Sam, South Waziristan Agency
- Assistant Professor (Feb. 2010 to Date) Khyber Medical University Peshawar, Pakistan.

Languages

- Fluent in speaking and writing English, Urdu and Pashto. Also can speak a little Chinese.

Computer Skills

- MS Word, MS Excel, PowerPoint, Internet etc.

Publications

1. **Shah W**, Hongwei C, Jin Z, Lifang D, Jun Y, Yili W. The Prevalence of Human Papillomavirus Type 58 in Chinese Patients with Cervical Carcinoma and its Influence on Survival. *Clinical Oncology*. 2009; 21:768-74.
2. Yan X, **Walayat S**, Shi Q, Zheng J, Wang Y. Development of a soluble PTD-HPV18E7 fusion protein and its functional characterization in eukaryotic cells. *Acta Biochimica et Biophysica Sinica*. 2009; 41:900-9.
3. Yan X, **Shah W**, Li X, Wang Y. Estrogen contributes to non-pRb targeted HPV18E7-caused cell proliferation and transformation. *Cancer Biology and Therapy*. 2010; 9:206-14.
4. Yan X, **Shah W**, Jing L, Chen H, Wang Y. High-risk Human Papillomavirus type 18 E7 caused P27 elevation and cytoplasmic localization. *Cancer Biology and Therapy*. 2010; 9:728-35.
5. Gao M, Long J, Li Y, **Shah W**, Fu L, Liu J, Wang Y. Mitochondrial decay is involved in BaP-induced cervical damage. *Free Radical Biology & Medicine*. 2010; 49:1735-45.
6. **Shah W**, Yan X, Jing L, Zhou Y, Chen H, Wang Y. Reversed CD4/CD8 ratio of tumor infiltrating lymphocytes and high percentage of CD4+FOXP3+ regulatory T cells are significantly related with the clinical outcome in squamous cell carcinoma of cervix. *Cellular & Molecular Immunology*. 2011; 8:59-66.
7. Gao M, Li Y, Long J, **Shah W**, Fu L, Lai B, Wang Y. Induction of oxidative stress and DNA damage in cervix in acute treatment with benzo[a]pyrene. *Mutation Research - Genetic Toxicology and Environmental Mutagenesis*, 2011; 719:52-9.
8. Wang Q, Zhang C, **Walayat S**, Chen HW, Wang Y. Association between cytokine gene polymorphisms and cervical cancer in a Chinese population. *European Journal of Obstetrics & Gynecology and Reproductive Biology*, 2011; 158:330-3.

9. Gao M, Li Y, Sun Y, **Shah W**, Yang S, Wang Y, Long J. Benzo[a]pyrene Exposure Increases Toxic Biomarkers and Morphological Disorders in Mouse Cervix. *Basic & Clinical Pharmacology & Toxicology*. 2011; 109:398-406.
10. Sultana N, Hashim TK, Jan SY, Khan Z, Malik T, **Shah W**. Primary cervical hydatid cyst: a rare occurrence. *Diagnostic Pathology*. 2012; 7:157.
11. Qinfeng S, Depu W, Xiaofeng Y, **Shah W**, Hongwei C, Yili W. In Situ Observation of the Effects of Local Irradiation on Cytotoxic and Regulatory T Lymphocytes in Cervical Cancer Tissue. *Radiat. Res*. 2013; 179:584-9.
12. Moosa NY, Khattak N, Alam MI, Sher A, **Shah W**, Mobashar S, Alam MI, Javid A. Comparison of cervical cell morphology using two different cytology techniques for early detection of pre-cancerous lesions. *Asian Pac J Cancer Prev*. 2014; 15(2):975-81.
13. Guo C, Liang F, **Shah W**, Yan X. Hydrogen sulfide protected gastric epithelial cell from ischemia/reperfusion injury by Keap1 s-sulfhydration, MAPK dependent anti-apoptosis and NF- κ B dependent anti-inflammation pathway. *Eur J Pharmacol*. 2014; 725:70-8.
14. Gao M, Li Y, Xue X, Long J, Chen L, **Shah W**, Kong Y. Impact of AhR, CYP1A1 and GSTM1 Genetic Polymorphisms on TP53 R273G Mutations in Individuals Exposed to Polycyclic Aromatic Hydrocarbons. *Asian Pac J Cancer Prev*. 2014; 15(6):2699-2705.
15. Gao ML, Chen L, Li YF, Xue XC, Chen L, Wang LN, **Shah W**, Kong Y. Synergistic Increase of Oxidative Stress and Tumor Markers in PAH-Exposed Workers. *Asian Pac J Cancer Prev*. 2014; 15(17):7105-12.
16. Khan A, **Shah W**, Khan MA, Khan MJ, Shah SAA. Significance of endoscopy/colonoscopy versus microscopy in patients with chronic diarrhea. *J Med Sci*. 2014; 22(3):132-6.
17. Javaeed A, **Shah W**, Akhtar R, Ghauri SK, Khan SH, Alvi AH. Diagnostic accuracy of IgA anti-tissue transglutaminase antibodies in comparison with histopathological findings in celiac disease in Pakistan. *Med. Forum*. 2014; 25(12):15-9.
18. Attaullah M, **Shah W**, Pervez SN, Khan S, Jehan S, Rahim S. Cytomorphological pattern of superficial lymphadenopathy. *Gomal J Med Sci*. 2014; 12:197-200.
19. Naz S, Javaid A, **Shah W**. Frequency of malignant cells in sputum cytology of tuberculosis suspected patients. *Adv Basic Med Sci*. 2015; 1(1):16-20.
20. Akbar S, Pervez SN, **Shah W**. Manual Liquid Based Cytology for Pap smear preparation and HPV detection by PCR. *Asian Pac J Cancer Prev*. 2015; 16(2):579-83.
21. Fu L, Wang D, **Shah W**, Wang Y, Zhang G, He J. Association of Human Papillomavirus Type58 with Breast Cancer in Shaanxi Province of China. *J Med Virol*. 2015; 87(6):1034-40.
22. Khan MA, **Shah W**, Jehan S. Cytomorphology Versus Conventional Microbiological Tests in the Diagnosis of Tuberculous Lymphadenitis. *J Coll Physicians Surg Pak*. 2015; 25(6):422-6.
23. Khan MA, **Shah W**, Javed K. Seroprevalence of hepatitis B and C virus in voluntary blood donors at tertiary hospital of Bannu, Pakistan. *Adv Basic Med Sci*. 2015; 1(2):63-6.
24. Gao M, Li Y, Ji X, Xue X, Chen L, Feng G, Zhang H, Wang H, **Shah W**, Hou Z, Kong Y. Disturbance of Bcl-2, Bax, Caspase-3, Ki-67 and C-myc expression in acute and subchronic exposure to benzo(a)pyrene in cervix. *Acta Histochem*. 2016; 118(2):63-73.
25. Ji X, Li Y, He J, **Shah W**, Xue X, Feng G, Zhang H, Gao M. Depletion of mitochondrial enzyme system in liver, lung, brain, stomach and kidney induced by benzo(a)pyrene. *Environ Toxicol Pharmacol*. 2016; 43:83-93.
26. Sultana N, **Shah W**, Ullah S, Ali M, Basharat S. Primary Hydatid Cyst of the Thyroid Gland: A Case Report. *Ann Clin Pathol* 2016; 4(3): 1070.
27. Javaeed A, **Shah W**, Ghauri SK, Akhtar R. Diagnostic Accuracy of anti-endomysial antibody in celiac disease. *J Coll Physicians Surg Pak*. 2016; 26(6):541-542.

28. Cao M, **Shah W**, Qi J, Zhou Y, Wang Y, Chen H. Prognostic significance of human papillomavirus viral load in correlation with different therapeutic modalities in cervical cancer patients. *Pathol Res Pract.* 2016; 212(9):804-10.
29. Wang D, Fu L, Shah W, Zhang J, Yan Y, Ge X, He J, Wang Y, Li X. Presence of high risk HPV DNA but indolent transcription of E6/E7 oncogenes in invasive ductal carcinoma of breast. *Pathol Res Pract.* 2016; 212(12):1151-1156.
30. Shah H, Khan MA, **Shah W**. Histopathological pattern of 400 cholecystectomy specimens. *J Postgrad Med Inst* 2016; 30(3): 250-3.

Presented & Published Abstracts

1. Khan MA, **Shah W**, Jehan S. Cytomorphology Versus Conventional Microbiological Tests in the Diagnosis of Tuberculous Lymphadenitis. 6th KMU ANNUAL HEALTH RESEARCH CONFERENCE 2014, KMU, Peshawar.
2. Muhammad, **Shah W**, Ahmad F. Relative frequency of *Helicobacter pylori* infection in Proximal and distal gastric carcinomas. Advances in Cancer and Hematology Conference, 2016, IBMS-KMU, Peshawar.
3. Basharat S, Sultana N, **Shah W**. Comparison of cytokeratin-19 expression in papillary and follicular carcinoma of thyroid. Advances in Cancer and Hematology Conference, 2016, IBMS-KMU, Peshawar.
4. Sultana S, **Shah W**. Geodemographic variations in subtypes of esophageal carcinoma amongst Afghanis and Pakistanis in Northwest Pakistan. Advances in Cancer and Hematology Conference, 2016, IBMS-KMU, Peshawar.

Conferences/Seminars/Workshops attended

1. "34th PAP Conference 5-7 November 2010 King Edward Medical University Lahore" KEMU Lahore (11/5/2010-11/7/2010)
2. Two Days QEC, KMU Workshop On: Internal Quality Assurance Mechanism: Enhancing Quality of Teaching / Learning & Research through Quality Enhancement Cell In KMU and Its Constituent/Affiliated Institutions/Colleges" Institute of Physical Medicine & Rehabilitation (IPM&R) KMU, Hayatabad (3/24/2010-3/25/2010).
3. QEC conducted a Follow up Workshop on Enhancing Quality of Teaching, Learning & Research (SAR Writing and Assessment Procedures) on 2nd - 3rd May, 2011 at Institute of Physical Medicine & Rehabilitation (IPM&R) KMU, Hayatabad, Peshawar.
4. Workshop on Use of Anti Plagiarism software www.turnitin.com in Khyber Medical University June 25th, 2011 at Institute of Physical Medicine & Rehabilitation (IPM&R) KMU, Hayatabad, Peshawar.
5. Workshop on Professional Competency Enhancement Program for Teachers (PCEPT) Course at KMU held on 01 Aug to 01 Oct 2011 at IBMS-KMU, Hayatabad, Peshawar
6. 5th KMU ANNUAL HEALTH RESEARCH CONFERENCE 2013 held on Feb. 14-16, 2014 at KGMC, Hayatabad, Peshawar.
7. One-day collaborative symposium on 26th March 2014 at KRL Hospital, Islamabad.
8. One Day Seminar on Potentials of Nano biotechnology in Medicine on 25th September, 2014 at IBMS-KMU, Hayatabad, Peshawar.
9. One Day Workshop on Survey Proformae by QEC on 20th November 2014 at IBMS-KMU- Hayatabad, Peshawar.
10. Worked as facilitator in one-day workshop on PCR and its applications in diagnostics, on 27th Feb. 2015, at IBMS-KMU- Hayatabad, Peshawar.

11. 6th KMU ANNUAL HEALTH RESEARCH CONFERENCE 2014 held on Feb. 27-Mar. 1, 2015 at KMU new building, Hayatabad, Peshawar.
12. One-day workshop on impact of bioinformatics in life sciences, held on 9th May, 2015, organized by department bioinformatics, Mohammad Ali Jinnah University, Islamabad.
13. One-day workshop on Next Generation Sequencing- Basic Sciences and Clinical Applications, held on 9th November 2015 at IBMS-KMU, Hayatabad, Peshawar.
14. Worked as facilitator in Immunohistochemistry; a one-day pre-Advances in Cancer and Hematology Conference workshop on 30th January 2016 at IBMS-KMU-Hayatabad, Peshawar.
15. One-day Advances in Cancer and Hematology Conference on 31st January 2016 at IBMS-KMU-Hayatabad, Peshawar.
16. Workshop on "Biomedical Ethics" in 39th Annual Conference of Pakistan Association of Pathologists & 4th Joint Conference of Societies of Pathology held at Khyber Medical University, Peshawar on 24th November 2016.
17. Workshop on "Next Generation Sequencing" in 39th Annual Conference of Pakistan Association of Pathologists & 4th Joint Conference of Societies of Pathology held at Khyber Medical University, Peshawar on 24th November 2016.
18. 39th Annual PAP Conference & 4th Joint Conference of Societies of Pathology held on 25th-27th November 2016-KMU, Peshawar.
19. Workshop "Principle, Application and Training on ELISA" in 2nd Advances in Cancer, Histopathology Hematology Conference 2017, on 27th January 2017 at IBMS-KMU-Hayatabad, Peshawar.
20. "One Day Workshop on Self-Assessment Report" held on May 11, 2017 Organized by Quality Enhancement Cell of KMU.
21. Micro-Feedback Skills Workshop on 23rd May 2017 at Khyber Medical University, Peshawar.
22. Seminar on "Semester System and FAQs" by Prof. Dr. Fida Younis Khattak, Dean Physical Sciences, KUST, on 23rd October 2017 at Khyber Medical University, Peshawar.
23. A comprehensive talk on two topics. Topic 1: Ph.D., Postdoc and other higher education opportunities in the USA & Topic 2: Biological Modeling and its relevance to the health science research, by Prof. Dr. Shahid Qamar, James Graham Brown Cancer Center, and John Hopkins University, USA, on January 23rd, 2018 at KMU-Peshawar.
24. One Day symposium titled, "Bone Marrow Transplant in Hematological Disorders" held on 1st February 2018 at Khyber Medical University, Peshawar.
25. Preconference Workshop on "Professional Communication Skills" during the 9th International Annual Health Research Conference, March 5-7, 2018 at KMU, Peshawar.
26. Seminar in the field of Computational Biology "Role of Computer in Teaching New Tricks to Old Drugs" on 15th March 2018 at Khyber Medical University, Peshawar.
27. "1st Symposium on Recent Updates in the Pathogenesis of Preeclampsia" on 29th March 2018 at Khyber Medical University, Peshawar.

List of MPhil Students Supervised

S #	Name	Thesis Title	Degree awarded/ status
1	Muhammad Nasir Khan	Effect of interferon alpha 2-b on testicular histology in rabbit model	2014
2	Shehla Akbar	Frequency of human papillomavirus in females undergoing Pap smear examination	2014
3	Aurangzeb Khan	Comparative study of microscopic and endoscopic findings in patients with chronic diarrhea	2014
4	Shazia Naz	Frequency of malignant cells in sputum cytology of tuberculosis suspected patients	2014
5	Syeda Uzma Saeed	Frequency of <i>Helicobacter pylori</i> in patients undergoing endoscopic biopsy for dyspepsia and abdominal pain	2014
6	Mir Attaullah Khan	Comparison of cytomorphologic and conventional microbiologic diagnosis of peripheral tuberculous lymphadenitis	2014
7	Arslaan Javaeed	Diagnostic accuracy of anti-endomysial and anti-tissue transglutaminase antibodies in comparison to histopathological findings in celiac disease	2015
8	Asim Muhammad	Relative frequency of <i>Helicobacter pylori</i> infection in proximal and distal gastric carcinomas	2016
9	Shomaila Ameer Alam	Association Between Oral Squamous Cell Carcinoma and Human Papillomavirus	2016
10	Waseem Khan	Effects of Citalopram on sex hormones and testicular histomorphology of male albino rats.	2017
11	Fatima Daud	Histological Changes in the Trabecular Meshwork in Primary Open Angle Glaucoma Eyes	2017
12	Mohibullah Khan	Blood Trace Elements (Zn, Cu, Mn, Fe) Estimation in Patients of Viral Hepatitis C, Cirrhosis and Hepatocellular Carcinoma in Tertiary Care Hospitals of Peshawar	2018
13	Maryam Bibi	Expression of Human Epidermal Growth Factor Receptor2 (Her2) in Urothelial Carcinoma of Bladder and its Relationship with Tumor Grading	2018
14	Muhammad Kamran	Comparison of Fine Needle Aspiration Cytology (FNAC) with cell blocks in diagnosis of palpable head and neck lesions	Thesis write up
15	Abid Nawaz	Frequency of Epstein - Barr virus in Formalin Fixed Paraffin Embedded Breast Cancer Tissues	do
16	Ilyas	AgNORs count index in different grades of oral squamous cell carcinoma	do
17	Sadaf Akhtar	Association of High Risk Human Papillomavirus with Spontaneous Abortion	do
18	Salman Hakim	PCR Based Detection of Leishmania in Microscopically Negative Cases of Cutaneous Leishmaniasis	Research in progress
19	Kamran Khan	Association of ABCG8 D19H (rs 11887534) Polymorphism with gall-stone disease	do

List of PhD Students Supervised

S#	Name	Thesis Title	Status
1	Nuzhat Sultana	Frequency and type specific distribution of human papillomavirus in esophageal cancer specimens from local hospitals of Peshawar	Research work in progress
2	Naveed Sharif	Diagnostic and Prognostic Significance of Glucose Transporters GLUT1 And GLUT4 in Urothelial Bladder Cancer	Synopsis approved from GSC waiting for approval from AS&RB

Service Activity

1. Course coordinator IBMS-KMU (Feb. 2011-Feb. 2015)
2. Member/secretary Institutional Board of Studies-IBMS-KMU (2011-2016)
3. Member Advanced Studies and Research Board-KMU (2011-2017)
4. Member plagiarism standing committee KMU (2011-2013)
5. Program team member QEC KMU (2011-till date)
6. Member Academic Council-KMU (2013-2016)
7. Member Graduate Studies Committee- IBMS-KMU (2014-2015)
8. Member technical review panel, publications evaluation for the post of Prof. of Biochemistry & Pharmacology IBMS-KMU
9. Ex-member Purchase Committee KMU
10. Member Senate KMU
11. Member Penal of Examiners GRE-PhD Histopathology -IBMS-KMU
12. Member Board of Studies IBMS-KMU
13. Member Admission Committee Histopathology-IBMS-KMU
14. Member Screening Test and Demonstration Committee Histopathology-IBMS-KMU
15. Subject Expert for publications evaluation for the post of Prof. and Assoc. Prof. IPMS

Research Interest

Interested in molecular pathology and immunology of cancer with special emphasis on HPV related cancers

Referees

1. *Wang Yili M.D., Ph.D.*
Professor of Pathology
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2. *Lu Shemin M.D., Ph.D.*
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3. *Jawad Ahmed M.B.B.S., M.Sc., Ph.D.*
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Director of Institute of Basic Medical Sciences
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