

CURRICULUM VITAE

PROF.DR. TALAT MIRZA
MBBS (Dow), M.Phil. (Path), Ph.D.

Personal Data:

Name : Prof. Dr. Talat Mirza
Husband's Name : Prof. Dr. Tariq Mirza
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Residential Address : House No.SU-203-C, Street 11-A, AOHS, Askar-4,
Main Rashid Minhas Road, Karachi, Pakistan.
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Academic Qualifications:
1. Ph.D. (Pathology) : 1998 - BMSI, JPMC, University of Karachi in
Collaboration with University of Leicester,
United Kingdom.
2. M.Phil. (Pathology) : 1986 - BMSI, JPMC, University of Karachi
3. M.B.B.S. : 1979 - Dow Medical College, Karachi
Current Employment: Executive Director Research & Meritorious Professor Pathology,
Ziauddin University, since **12th Feb, 2020 to date. Ex Dean**
Research, Ziauddin University, Karachi, since **10th May 2017 till**
11th Feb, 2020.

Distinctions:

- Meritorious Professor Pathology
WHO Fellowship Award EM/95/037203 for PhD Research at Leicester University UK.
- HEC Recognized Supervisor (HEC/HRD/ASA/2019/44415).
- Founding Director Dept. of Molecular Medicine, Ziauddin University.
- Ex-Member Syndicate Dow University of Health Sciences.
- Member Board of Governors AQ Khan Institute
- Founding Director Dow Research Institute of Biotechnology & Biomedical Sciences
- Founding Director Dow College of Biotechnology
- Founding Chair for the Dept. of Pathology Dow International Medical College
- Establishment of Histopathology lab at DDRRL as Chief Histopathologist
- Dean Basic Medical Sciences Dow University

Professional and Teaching Experience / Service Record:

19	Executive Director Research & Meritorious Professor	Ziauddin University	12.02.2020	To Date
18	Dean Research & Meritorious Professor	Ziauddin University	10.05.2017	11.02.2020
17	Director, Institute of Basic Medical Sciences	DUHS	18.07.2016	30.03.2017
16	Meritorious Professor Pathology (BPS-22)	DUHS	14.07.2016	To Date

15	Dean, Faculty of Basic Medical Sciences	DUHS	14.5.2015	17.07.2016
14	Director, Dow Research Institute of Biotechnology & Biomedical Sciences (Resumption of Post on Contract Basis)	DUHS	17.3.2015	30.03.2017
13	Chairperson Pathology	DUHS	30.09.2014	12.08.2015
12	Professor & Head Pathology (BPS-21)	DIMC	29.09.2011	29.09.2014
11	Chief Histopathologist	DDRRL	21.02.2008	30.03.2017
10	Associate Professor (BPS-20)	DIMC	21.02.2008.	29.09.2011
9	Associate Professor (BPS-20)	DMC	15.12.2006	21.02.2008
8	Associate Professor (BPS-19)	DMC	27.05.2005	15.12.2006
7	Assistant Professor (BPS-19)	DMC	13.07.1996	27.05.2005
6	Assistant Professor (BPS-18)	SMC	14.07.1993	13.07.1996
5	PhD Deputation BMSI/JPMC & LEICESTER UNIVERSITY, UK	BMSI/JPMC	26.08.1990	13.07.1993
4	Demonstrator Pathology	DMC	13.08.1986	25.08.1990
3	M. Phil Deputation	BMSI, JPMC	01.10.1984	12.08.1986
2	Demonstrator Pathology	DMC	03.12.1981	30.09.1984
1	House Officer Gynae/Obst.	WARD-III CHK	17.12.1979	20.12.1980

Courses/Workshops & Symposia:

1. 04 days' workshop on "**Research Methodology**" at Ziauddin University, Clifton Karachi on 01st -04th February, 2022.
- 2.
3. 04 days' workshop on "**Research Methodology**" at Ziauddin University, Clifton Karachi on 02rd -05th November, 2021
4. 02 days' workshop on "**Fundamentals and Applications of Cell Culture**" at Ziauddin University, Clifton Karachi on 09th -10th November, 2021
5. 02 workshop on "**Bioinformatics & Computational Biology for Beginners**" at Ziauddin University, Clifton Karachi on 07th -8th December, 2021

6. One day workshop on “**Beginning Qualitative Inquiry: Questions and Methods**” Ziauddin University, Clifton, Karachi on 12th March, 2020
7. One day workshop on “**Medical Writing**” by Prof. Dr. Syed Abdul Aziz, Ziauddin University, Clifton, Karachi on 13 March 2020
8. 03 days’ workshop on “**Fundamental Techniques in Molecular Biology**”, Ziauddin University, Clifton, Karachi on 17-19th Nov, 2020
9. 5 days’ workshop on “**Research Methodology**”, Ziauddin University, North Campus on 16th -20th Nov, 2020.
10. Workshop Facilitator “**Cell Culture Techniques in Drug Designing & Development**” at 4th International conference Ziauddin University, Clifton Karachi. 06th Dec 2019.
11. Co-Chair in 4th International Conference on “**Challenges in Drug Discovery and Therapeutics**” at Ziauddin University, Clifton Karachi on 06th -07th December 2019.College of Pharmacy
12. Workshop Facilitator on “**Research Methodology**” at Ziauddin University, Clifton Karachi on 23rd -25th October 2019.
13. Workshop Facilitator on “**Techniques in Molecular Biology**” at Ziauddin University, Clifton Karachi on 28th -29th August 2019.
14. Workshop Facilitator on “**Research Methodology**” “at Ziauddin University, Clifton Karachi on 18th -19th July 2019.
15. Speaker in 2nd Annual Symposium on **Emergency Medicine** with the topic“**Research Perspectives In Emergency Medicine**” at Ziauddin Hospital Clifton, Karachi on 1st January 2019.
16. Workshop facilitator on “**Research Methodology Training of the Trainers**” at Ziauddin University, North Campus Karachi on 26th -28th December 2018.
17. Speaker in 1st International conference of Pakistan Society of “**Oral Cancer Disease Burden and Challenges**” in Oral & Maxillofacial Pathology at Ziauddin University, Clifton Karachi on 11th and 12th August 2018.
18. Workshop facilitator on “**Basic & Advanced Histological Techniques**” at Ziauddin University, Clifton Karachi on 27th -29th November 2018.
19. Hands on workshop “**Five days training Program on Introductory Research Course for Post Graduate Students**” at Ziauddin University Clifton Karachi on 16th -20th April 2018.
20. Organizer & Speaker CME Pathology on “**National Health Research Agenda**” at Ziauddin University ON 20th April 2018.
21. Workshop facilitator on “**Research Methodology**” in Rehabilitation Translation, Clinical & Research Perspectives” Ziauddin University, Clifton Karachi on 22nd Feb 2018.

22. Organizer & Chair 3rd International Conference on **REHABILITATION TRANSLATION, CLINICAL & RESEARCH PERSPECTIVES** Ziauddin University, Clifton Karachi on 22nd and 23rd Feb 2018.
23. Workshop facilitator on **One Day Colloquium on “National Health Research Agenda”** at University of Health Sciences Lahore on 23rd May 2017.
24. Organizer CME Pathology on **“Emerging Concepts of Alzheimer Disease”** at DIMC, 27th February 2017.
25. CME Pathology on **“What is new in Genitourinary Pathology”** at DIMC, 13th February 2017.
26. CME Pathology on **“The Resent WHO Classification of Lymphomas 2016”** at DIMC, 2nd January 2017.
27. Workshop on **“Engineering Yeast as a Biosensor for early detection of Oral Cancer”** at 2nd All Pakistan DICE Health Innovation Exhibition 2016 jointly organized by DICE Foundation USA & DUHS on 23rd & 24th December 2016 at Karachi Expo Center.
28. CME Pathology on **“Reference Intervals & Clinical Decision Limits”** at DIMC, 5th December 2016.
29. CME Pathology on **“Study of Possible Reversal of Resistance in some causing multiple drug Resistant Bacteria by Natural Products & other Biotechnological tools”** at DIMC, 10th October 2016.
30. CME Pathology on **“Effect of DNMT1 CatD Mutations on KLF4 Promoter Methylation Patterns”** at DIMC, 17th October 2016.
31. CME Pathology on **“Current status of BIOINFORMATICS & Molecular Medicine Laboratory”** at DIMC, 26th September 2016.
32. Workshop on **“Biosafety & Biosecurity a Neglected but Crucial Aspect of Laboratory”** at DIMC 08th, September 2016.
33. Workshop on **“Application of Real Time PCR in Bioinformatics / Analysis of multiple Gene Expressions”** at DIMC 25th, August 2016.
34. CME Pathology on **“Important & Interesting Tips of Laboratory Bio-Safety”** at DIMC, 6th June 2016.
35. CME Pathology on **“Study of Regenerative Potential of Various Population of Stem Cells in to Cardiomyocytes”** at DIMC, 16th May 2016.
36. CME Pathology on **“Vitamin D: The Vitamin that works like a Hormone”** at DIMC, 2nd May 2016.
37. CME Pathology on **“Anatomical Variations in Congenital Heart Disease”** at DIMC, 25th April 2016.
38. CME Pathology on **“Research on Crossroads”** at DIMC, 18th April 2016.

39. Program Director **“ICGEB Course on Basic Biotechnology Techniques”** at DIMC 28-30 March 2016.
40. CME Pathology on **“Mutational Screening of Coding Sequence of MYD88 in ABC Type of Diffuse Large B-Cell Lymphoma”** at DIMC, 21st March 2016.
41. CME Pathology on **“Significance of Embryonic Hemoglobin in Health & Disease”** at DIMC, 14th March 2016.
42. CME Pathology on **“Dow Research Institute of Biotechnology & Biomedical Sciences: Opportunities, Challenges, Progress & Future Vision”** at DIMC, 7th March 2016.
43. CME Pathology on **“Tuberculosis & Gender Karachi in Context with the Wider World”** at DIMC, 8th February 2016.
44. CME Pathology on **“The Frequency & Pattern of Lymphoma in Adult Age Group-A Tertiary Care Hospital Experience”** at DIMC, 1st February 2016.
45. CME Pathology on **“Enhancing the Regenerative Potential of Bone Marrow Stem Cells for Kidney Diseases”** at DIMC, 18th January 2016.
46. Program Director **“Healthy Heart Healthy Life: A New Era of Our Generation”** at DIMC 30-31 December 2015.
47. CME Pathology on **“Host Immune Response Antimicrobial & Immunomodulating Activities of Medical Plant Derived Substances in the Control of Infection with Multidrug resistant strains of Bacteria”** at DIMC, 14th December 2015.
48. CME Pathology on **“Quantification of Immune Cells in Triple Negative & non Triple Negative Breast Cancer”** at DIMC, 7th December 2015.
49. Course Director **“How To Grab Research/Travel Grants: A Success Story of Molecular Pathology Department”** at DIMC 26th October 2015.
50. Course Director **“Characterization of Synergistic Anticancer Effects of Docosahexaenoic Acid & Curcumin on Breast Cancer Using A Genomic Approach”** at DIMC 19th October 2015.
51. Course Director **“Cell Signaling Biology Immunopathology”** at DIMC 6th October 2015.
52. CME Pathology on **“Differentiation Potential of Bone Marrow Mesenchymal Stem Cells into Cardiomyocytes”** at DIMC, 28th September, 2015.
53. CME Pathology on **“Sources & Control in Pre-Analytical Variations for Clinical Laboratories Assays”** at DIMC, 21st September, 2015.
54. CME Pathology on **“WATCH: Warwick Assessment Instrument for Clinical Teaching: Development & Testing”** at DIMC, 14th September, 2015.
55. CME Pathology on **“Update from Molecular Pathology”** at DIMC, 7th September, 2015.
56. Facilitator **“DUHS-DICE Foundation USA Exhibition & CME Program”** at Expo Center Karachi, August 22nd. 2015.

57. CME Pathology on **“Proceedings of Coagulation Routine Screening”** at DIMC, 17th August, 2015.
58. Course Director **“Inflammatory and Neoplastic Diseases of the Vulva”** at DIMC 12th August 2015.
59. CME Pathology on **“Chang is In-Evitable Adapting to Chance is Un-Avoidable”** at DIMC, 10th August, 2015.
60. CME Pathology on **“Screening & Bioinformatics Analysis of Human Papilloma Virus in Women”** at DIMC, 3rd August, 2015.
61. CME Pathology on **“Polymerase Chain Reaction”** at DIMC, 15th June, 2015.
62. CME Pathology on **“Vision of A Bio-Process Engineering Laboratory”** at DIMC, 25th May, 2015.
63. CME Pathology on **“Good Beginning is half done”** at DIMC, 11th May, 2015.
64. CME Pathology on **“Laboratory Bio-Safety”** at DIMC, 4th May, 2015.
65. Organizer of CME workshop on **“Myeloproliferative Neoplasms and Myelodysplastic Syndrome”** in collaboration with NIBD. 29th to 30th April 2015 at DIMC.
66. CME Pathology on **“Diagnostics of Tuberculosis”** at DIMC, 27th April, 2015.
67. CME Pathology on **“Haematology Updates”** at DIMC, 13th April, 2015.
68. CME Pathology on **“Quality means doing it right when no one is looking”** at DIMC, 6th April, 2015.
69. CME Pathology on **“Cell Signaling of Innate Immune System”** at DIMC, 30th March, 2015.
70. CME Pathology on **“Microbiology Updates Series-I”** at DIMC, 16th March, 2015.
71. CME Pathology on **“Liaison of Histopathology & Molecular Pathology Techniques”** at DIMC, 9th March, 2015.
72. CME Pathology on **“Haematology Updates Series-I”** at DIMC, 2nd March, 2015.
73. CME Pathology on **“Cutting Edge Molecular Technique”** at DIMC, 16th February, 2015.
74. CME Pathology on **“Laboratory & Research updates in Microbiology”** at DIMC, 9th February, 2015.
75. Resource person in Seminar on **“Global Trends in ”** in patients at PDC Hall, DIMC 10th January 2015.
76. Hands on Training Workshop **“Enteric Fever: Diagnostic & Management”**w.e.f 8thJanuary 2015 to 9th January 2015 at DDRRL.
77. Pathology Faculty Speaker in hands-on skills training workshop on **“Basic Orthopedic Skills”** at DIMC, 15th& 16th December, 2014.

78. Workshop on **“Bone Biopsy”** at PDC Hall, DIMC 16th, December 2014.
79. Workshop speaker **“Basic Orthopaedic Skills”** on PDC Hall, DIMC 15th December, 2014.
80. Workshop Organizer & speaker **“HEC Indigenous** on campus training program at DMC w.e.f 2nd December, 2014 to 6th December, 2014.
81. Guest lecture in **ASM** (Award) 29th November, 2014.
82. Silver Jubilee Symposium speaker on **“Immunogenomics, Vaccinology and infectious Disease Challenges”** at Marriott Hotel, Karachi 27th– 28th November, 2014.
83. Workshop facilitator on **“Scientific writing and publishing”** on 20th October, 2014 at DIMC, Department of pathology.
84. Hands on Training Workshop **“Evaluation of Cellular Pro-Inflammatory Metabolites”** by using HPLC A Mechanistic approach to drug discovery and diagnostics” 28th August 2014 at DIMC, DDRRL, DUHS.
85. Hands on Training workshop on **“Molecular and immunodiagnosics”** at DDRRL, 16-18 August 2014.
86. CME Lecture on **“Surviving through a Research degree“Trick of the Game”** 15th February, DIMC, Department of pathology.
87. CME Lecture on **“Recent Advances in Immunodiagnosics”** at DIMC, 6th January, 2014.
88. Course Director **“Dermatopathology”** workshop at DIMC, DUHS, December 2013
89. 1st Meeting of International Academy of Pathology (IAP) – Pakistan Division in collaboration with **“Histopathology & Cytology Society of Pakistan (HCSP)”** on 2nd November, 2013 at Pearl Continental Hotel, Karachi
90. Resource person **“Workshop on Oral Pathology”** National Pathology Week-13th to 18th May 2013 at DIMC, DUHS.
91. Public Awareness Seminar speaker on **“Diabetes Mellitus”** at DUHS (Ojha Campus) on 29th April, 2013.
92. Director of the Workshop on **“Advances in Diagnostic Lymphoproliferative Disorders”** at DIMC, DUHS 6th April 2013.
93. **“BCQ’s retreat session at Pearl Continental”**, Aga Khan University, Karachi 16th March 2013.
94. Chair Scientific Session on **“Infection Control Society Pakistan at Dow University of Health Sciences”** DIMC, (Ojha Campus) Karachi. January 30th 2013.
95. Course Director, course n workshop on **“Apoptosis & Cancer”** at DIMC, DDRRL Held on July 16th to 1st August’2012.
96. The Organizing Committee of the **“35th Annual and 5th International Conference of Pakistan Association of Pathologists”** at College of Physicians and Surgeons Pakistan, 16th 17th 18th December, 2011.

97. Organizer & Resource Person Workshop on **“Research Grant Writing”** held at DIMC, DUHS, 10-11 December, 2011.
98. Guest Speaker in Seminar on **“Management of Breast Cancer topic Cytological and Histopathology findings in Breast Cancer”** at O.T Complex CHK, DMC Karachi. October 29, 2011.
99. Guest Speaker in **“Public Health Surveillance Workshop on “Cancer Registry”** Institute of Nursing Ojha Campus, DUHS, September 22- 24, 2011.
100. Certificate of Participation as Expert Panelist in Scientific Session **“16th Annual Cancer Conference”** 11– 13 March, 2011.
101. **“Assessment of Competence”** Workshop at College of Physicians and Surgeons, Karachi, 16-19 February, 2011.
102. **“Building Bridges for Medical Education Reforms”** at Dow International Medical College, DUHS, 15– 16 January, 2011.
103. **“Supervisory Skills”** workshop, College of Physicians and Surgeons Karachi. 28-31, December, 2010.
104. **“Certificate of Recognition Award ‘ ’ 2010** by Pakistan Association of Pathologists, Karachi.
105. **“Research Methodology, Biostatistics & Medical Writing”** at College of Physicians and Surgeons, Karachi. 11-14, December, 2010.
106. Participation in **“5th Regional Conference on Medical Journals”** in the Eastern Mediterranean Region, Karachi- Pakistan. 02-05, December, 2010.
107. Workshop on **“Biostatistics”** held at DUHS, Karachi. 2nd, December, 2010.
108. Paper presentation **“Histological Evaluation of Abnormal Uterine Bleeding in Endometrial Biopsies”** at 13th Biennial Scientific Conference of Obstetricians & Gynecologists of Pakistan Karachi., 4-7, February 2010.
109. **“Grant Writing & Research Methodology Training Course & Workshop”** at the Professional Development Centre, DUHS. 22-29, January 2010.
110. **“Shield Award recipient”** on first Faculty Research Day, Poster Presentation of Faculty Members Research, organized by Department of Research, DUHS, Karachi (The Title of Study was **“Molecular Detection of High Risk HPV in Oral Squamous Cell Carcinoma & Pre-cancer”**. 23rd January 2010.
111. Workshop on **“Successful Grant Writing Application: Concept to Funding”** at School of Nursing, Ojha Campus, DUHS, 22nd – 23rd January, 2010
112. Resource Person in **“Molecular Diagnostic Workshop”** at DDRRL, DUHS, Karachi. 2009.
113. Conducted a 20 Days Professional Development Certificate Course & Hands-on Training Program on **“Recent Advances in Pathology & Toxicology”** at the Dow Diagnostic Research & Reference Laboratory OJHA Campus, DUHS, Karachi. 10-30 July 2009.

114. One Day Seminar, **“Head & Neck Cancer – The Challenge”** Karachi Institute of Radiotherapy and Nuclear Medicine (KIRAN), Karachi. 30th May 2009.
115. Resource Person and Icon of Honor Award in Pathology at **“46th Annual Medical Symposium”** JPMC Karachi. 6-8, April 2009.
116. Workshop on **“Renal Histopathology”** SIUT 6th International Symposium of Urology, Nephrology & Transplantation. 23-26, October 2008.
117. One Day Workshop on **“Medical Editing and Peer Review”** DUHS.9th July 2008.
118. Participated in**“Third Annual Symposium of DUHS”**DUHS Karachi, 23-26 February, 2007.
119. **“2nd Annual Symposium of DUHS”**DUHSKarachi. 26-29, December, 2005.
120. Workshop on **“Educational Planning & Evaluation of Undergraduate Students in Basic Medical Sciences”** DUHS Karachi. 26, December 2005.
121. Workshop at CPSP on **“Soft Tissue Tumors and Diseases of the Breast”**, 20-21, December 2005.
122. Session of Basic Medical Sciences**“1st Annual Symposium of DUHS”**DUHS Karachi, 16-20, February 2004.
123. Panelist in the **“Second Annual Symposium of DUHS”**DUHSKarachi.13-15, February 2004.
124. Presented a Scientific Paper, **“Molecular Analysis of Papilloma Virus &Oncosuppressor Genes in Tobacco Related Oral Cancer”**in the Second Annual Symposium Dow Medical College, Karachi. 13-15, February, 2004.
125. **“Pulmonary Pathology”** Workshop CPSP Karachi. 11-12, February 2004.
126. **“Applications of Cell-Culture Technology & Immunodiagnostics”** Postgraduate Workshop 2003 jointly organized by the Department of Microbiology; MAH Qadri Biological Research Centre, University of Karachi & Pakistan Society for Microbiology (Resource Person). 15-20, December 2003.
127. National Conference on **“Community - Oriented Medical Education; A 15 Years Baqai Experience;”**Baqai Medical University, Karachi. 29-30, March 2003.
128. Speaker at Sindh AIDS Control Program **“Provincial Seminar to Promote Political Commitment for Prevention and Control of IVVV/AIDS in the Country”** at Arag Auditorium, DMC Karachi. 24th January 2001.
129. **“Developing MCQs of One Best Type”** WHO Collaborating Centre for Research & Training in Educational Development of Health Personnel, & Department of Medical Education & National Teachers Training Centre CPSP Karachi, 20-21, September, 2000.
130. **“GIT & Liver Pathology”** Workshop CPSP Karachi, 20-21, April, 1999.
131. **“Lympho - Reticular Diseases”** Workshop CPSP Karachi, 01-05, December 1998.

132. **“3rd International Symposium on Urology, Nephrology & Transplantation”** of the Sindh Institute of Urology and Transplantation (SIUT); Karachi, Pakistan. 16-18, November 1998.
133. Participation in **“6th International Congress”** of the Middle East Society for Organ Transplantation (MESOT) Karachi, Pakistan, 13-16, November 1998.
134. **“Eighty Hours Program of Instruction in Computer Concepts”** DOS, Basic, Windows, MS Word/Excel. The Computer World Registered with Sindh Board of Technical Education. 22, August 1998.
135. **“Educational Planning & Evaluation Course”** WHO Collaborating Centre for Research & Training in Educational Development of Health Personnel & Department of Medical Education & National Teachers Training Centre (NTTC), CPSP Karachi. 22- 25, September 1997.
136. **“Case Writing for Problem Based Learning”** WHO & Community Oriented Medical Education (COME), DMC Karachi, 25-27, June 1997.
137. **“Educational Planning for Medical Teachers”** PMRC & Department of Medical Education, DMC Karachi. 16-17, June, 1997.
138. **“Research Methodology & Medical Writing”** PMRC & Department of Medical Education, DMC Karachi (Resource Person). 27-28, May 1997.
139. **“Problem Based Learning for Medical Teachers”** at Dow Medical College Karachi, 05 – 06, May 1997.
140. Resource Person in **“Golden Jubilee & Centenary Congress”** DMC & CHK, Dow Medical College, Karachi, December, 28 1996 - 01 January, 1997.
141. **“Renal Pathology”** Workshop CPSP; Karachi, October. 29-30, 1996.
142. **“Dermatopathology”** Workshop; CPSP Karachi, November 27 - 02 December, 1995.
143. Workshop on **“Molecular Biology”** AKUH in Collaboration with Karolinska Institute (Stockholm, Sweden) & The Hospital for Sick Children, University of Toronto (Canada), 24-28, September 1995.
144. **“Advances in Pathology”** Course, CPSP Karachi, 27-29, August 1995.
145. **“Ocular Pathology”** Workshop; CPSP Karachi, 29-30, April 1995.
146. **“Cancer Control”** Course; CPSP Karachi, 29-31, January 1995.
147. **“Renal Pathology”** Workshop; CPSP Karachi, 11-12 January 1995.
148. Paper Presentation in Congress’95 on **“The Spectrum of Chronic Liver Disease & Histopathological Changes in Chronic Hepatitis due to B & C Viral Infections”** held at CPSP Karachi. 08th January 1995.
149. Panelist in **“Congress 95”** CPSP, Karachi, 08-11, June, 1995.

150. Facilitator & Panelist for the Plenary Session on “**Oral Cancer Update & Recent Advances**” 32nd Annual Medical Symposium of JPMC Karachi, December, 1994.
151. First Series of “**International Seminars on Hospital Infection Control**” Infection Control Society, Pakistan. November 27 -03 December. 1994.
152. Resource Person in “**First National Workshop/Certificate Course in Immuno-Diagnosis and Flow Cytometry**”HEJ Research Institute of Chemistry, University of Karachi, Pakistan, 01-11, July 1994.
153. “**Update Course for Teachers of Pathology**” CPSP Karachi, 21-23, September 1993.
154. Course in “**Gynecological Cytology, Urinary Tract Cytology**” FNAC, CPSP Karachi, 11-21, January 1993.
155. “**Neuropathology**” Workshop, CPSP, Karachi, 02-07, January, 1993.
156. “**Reproductive Pathology**” Workshop, College of Physicians and Surgeons Pakistan (CPSP). 19-24, February, 1990.
157. Resource Person, “**Second International Conference, Pakistan Association of Pathologists**” Karachi, 05-08, December, 1986.

Oral &Poster Presentations 2008 to 2017 at DUHS:

1. Anti-Arthritic Effect of Opuntiol/nano-particles via Suppressing TLRs & Dectin-1 expression in Adjuvant-Induced Arthritic Rats.
2. Inhibitory effect of the effect of Opuntiol/nano-particles against pro-inflammatory cytokines
3. Productio0n and Purification of Citric Acid by Aspergillus Niger, adding value to Molasses.
4. Identification and Characterization of Various Leishmania Species from Biopsies of the Histopathological Samples.
5. Isolation, Characterization and Comparison of Locally Isolated SaccharmycesBoulardii Strain with Commercially available Probiotic Strain to Assess Probiotic Potential; A way forward to local Production of Probiotics in Pakistan.
6. Correlating the Stress Response Induced Alteration in the 3D Morphology of Isolated S. Boulardii (Probiotic) by Scanning Electron Microscopy and its Antimicrobial Effect..
7. Research Poster Presentation during APPNA-DUHS Winter Meeting 2016. 22-23-24 December 2016.
8. Spectrum of Preneoplastic and Neoplastic Lesions of Stomach in a tertiary care hospital of Karachi Pakistan.
9. Ginseng Root Extract: Promises against Obesity.
10. Benign and Malignant lesions of Salivary Glands in Pakistan.
11. Whole Genome Phylogenomics and Antigenic Divergence of Ebola Virus (1976-2014).
12. Molecular ncology: Structural Variations of Cancer Related RAS Paralogues.
13. Why the Barriers Not Crossed: Animal and Human HCV.
14. Viral Oncology: Evolutionary Transitions of EBNA(s) Latent Genes of Epstein-Barr Viruss
15. Structure Function Relationship of Hemagglutinin (HA1) of 2009 Swine Influenza Virus.
16. Phylogenetic and structure-function Polymorphism of ALAS2 Enzyme, Involved in X-Linked Sideroblastic Anemia.Haematology Conference & Scientific Exhibition 2009.
17. The Cake is not symmetrical:Whole genome VS single gene phylogeny ofHuman T-Lymphotropicvirus and other Retroviruses. (poster) Abstract bookofHaematology Conference and Scientific Exhibition 2009(Karachi, 15th and 18thOctober, 2009):43.

18. Is Nestroft Efficient to be used as a Screening Tool for BETA Thalassaemia Trait Detection?
19. A Comparison of fine Needle Aspiration Cytology with Ziehl Nielsen Staining Technique in Diagnosis of Tuberculous Lymphadenites.
20. Histopathological Spectrum of Oral Lesions in Biopsy Files at DDRRL.
21. Molecular Detection of High Risk HPV in Oral Squamous Cell Carcinoma and Precancer at DUHS 23rd Jan, 2010.
22. Comparative Study of Pathological & Prognostic Features of Breast Cancer in Young Western Women versus Asian Women. Accepted for poster presentation at BASO- the Association for Cancer Surgery Scientific Conference 7th & 8th Nov 2011, Royal College of Surgeons of England.

Research and Publications:

1. **Differential Immune Landscape of Hepatocellular Carcinoma Suggests Potential role of Macrophages in Hepatocarcinogenesis.** Pakistan Journal of Medical Sciences, **37(3).2021. Impact Factor 0.834**
2. **Opuntiol Inhibits Growth and Induces Apoptosis in Human Glioblastoma Cells by Upregulating Active Caspase 3 Expression.** Asian Pacific journal of cancer prevention:
Ashfaq, A., Hanif, F., Simjee, S. U., Bari, M. F., Faizi, S., Zehra, S., **Mirza, T.**, Begum, S., & Khan, APJCP, 22(11), 3607–3613. <https://doi.org/10.31557/APJCP.2021.22.11.3607> (2021).
3. **Histomorphological Spectrum of Glomerulopathies: A Review.** Shaikh A, Lateef F, **Mirza T.**, Pak J Med Dent. **2021;10(1):70-75**
4. **Molecular Pathology: A Paradigm Shift towards Precision Medicine.** Shaikh F, **Mirza T.**, Pak J Med Dent. **2021;10(1):1-2.**
5. **Direct differentiation of cord blood derived mesenchymal stem cell into keratinocytes without feeder layers and cAMP inducers:** Pak J Med Sci: Vol. 36 No. 5 Aug, 2020, Original Article
6. **Nephroprotective role of eugenol against cisplatin-induced acute kidney injury in mice,** A Kadir, S Sher, RA Siddiqui, T Mirza, PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES **33 (3), 1281-1287, 2020. Impact Factor 0.682**
7. **Salivary Biomarker for Oral Squamous Cell Carcinoma: A Meta-Analysis-** Pakistan Journal of Microbiology 2020, Vol 1 (01) : 20-27, Original Article
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115. **Histopathological Spectrum of Premalignant and Malignant Lesions of Esophagus in the Population of Karachi; A Shabbir, MA Qureshi, N Khan, T Mirza;**
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117. **Expression Of Ttf-1, Napsin-A, P63 And P40 In Differential Diagnosis Of Non-Small Cell Lung Carcinoma; N Khan, T Mirza, FF Zuberi, MF Bari**
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119. **Recurrent Mandibular Osteosarcoma with Soft Tissue Extension: A Case Report**
Recurrent Mandibular Osteosarcoma with Soft Tissue Extension: A Case Report; H Salam,
 F Danish, L Avesi, T Mirza

Honours/Achievements in Service at Ziauddin University/Dow University of Health Sciences:

- Reactivation of PhD program at Ziauddin University with induction of three batches during the year of 2018-19 in the subject of Pathology, Pharmacology and Biochemistry.
- Restructuring of MPhil and PhD course work at ZU with review of credit hours, Course Code and initiation of taught courses in Molecular Biology and Genetics.
- Initiation of LAB base training through courses and Workshops in the recent advanced technologies. at ZU.
- Initiation of internship programs in Molecular genetics laboratories at ZU
- Recognition of Molecular Medicine MPhil program from HEC
- Designing and development of Multidisciplinary LAB (MDRL2) at ZU
- Activation of Genetics Laboratory at north Campus for research as MDRL3 in ZU.
- Registration of all academics projects at the Ziauddin University for Clinical Trials with initiation of Clinical Trails Unit with the approval of BASR in the process of making.
- Initiation of Research Track faculty development program in biological sciences with induction of four (04) PhDs in the subject area.
- Chair Research Advocacy Committee at ZU
- Chair Research Advisory Committee for PhD at ZU
- Member Clinical Research Committee & Ethical Review Committee at ZU
- Member BASR at ZU

- Member Editorial Board of Pakistan Journal of Rehabilitation.
- Member Thesis Defence Committee for MPhil, MD,MS & PhD at ZU
- Personal Professional Development with acquisition of MPhil in Pathology and PhD in collaboration with Leicester University to serve as Course Director for all undergraduate and postgraduate programs most effectively and supervision of many MPhil & PhD projects at DUHS & ZU
- Establishment of Pathology Department at Dow International Medical College.
- First PhD program coordinator at DUHS and Member PhD core group with contribution in Scientific Committee, Ethical Review Board, Board of Advanced Studies and Research.
- Designed PhD & Maters curriculum for Pathology at DUHS.
- Course Director for FCPS in Histopathology at DUHS for recognition of the program by College of Physician and Surgeons Pakistan.
- Founding Course Director for the development of Oral Pathology program for the Master's in Dental Surgery at DUHS
- Designing and Development of Histopathology Department at Dow Diagnostic Reference and Research Lab as Chief Histopathologist.
- Designing and Development of Dow Research Institute of Biotechnology and Biomedical Sciences (DRIBBS) as Director.
- Establishment of Dow College of Biotechnology under the umbrella of DRIBBS.
- Supervision with Degree award to Twenty Master's students and six PhD students at Dow University of Health Sciences. Three PhD projects near completion and two additional PhD Synopsis submitted. Six Master's Projects also in progress at ZU
- Chair Research Advisory Board at Ziauddin University.
- Deputy Chair University Research Counsel at Ziauddin University.
- Member Board of Advance Studies and Research at Ziauddin University.
- Member Research Advocacy Committee, Clinical Research Committee, Ethical Review Committee, Basic Health Sciences Postgraduate Committee at Ziauddin University.
- External Member board of Dow Research institute for Biotechnology & Biomedical Sciences.
- External Member of Postgraduate training committee at JSMU.
- Ex-Member Syndicate Dow University of Health Sciences.
- Course Supervisor and Director for all academic postgraduate programs in Pathology at DUHS.
- Member Board of Advanced Studies at Hamdard University.
- Member Board of Advanced Studies at Bahria University.
- Member Board of Advanced Studies and Research at Dada Bhaoy University of Higher Education.
- Member Board of Advanced Studies at Szabist
- Course Director for all Postgraduate academic programs in Pathology at DUHS.
- Course Supervisor for all Academics in the department of Pathology, DIMC for all postgraduate programs including students of M.Phil, PhD, MDS, NIDE, DMJ, DTCD etc.
- Member International Academy of Pathology (IAP).
- Member Histopathology & Cytology Society of Pakistan.
- First Coordinator of the PhD Core Group for Designing and Developing the PhD Program at DUHS, 2004.
- Member Core Group and Board of Thesis Defense Committee at Dow University of Health Sciences.
- Member Advisory Committee for PhD at DUHS.

- Member scientific research committee at DUHS.
- Member Board of Advanced Studies and Research Ziauddin Medical University, Karachi.
- Member Editorial Board Pakistan Journal of Otolaryngology Head and Neck Surgery.
- Member Advisory Board Journal of Dow University of Health Sciences
- Member Institutional review Board at DUHS.
- Reviewer of Journal of Pakistan Medical Association.
- Reviewer of JDUHS.
- Life Member of Pakistan Association of Pathologists 2010.
- Regular External Examiner for Pathology, Gynecology and Obstetrics & Surgery at Agha Khan University Hospital in all the Professional Examinations.
- External examiner of open PhD Thesis defense at AKUH.
- Regular Examiner for PhD and MPhil at the University of Karachi.
- Regular Examiner for PhD and M Phil at BMSI, JPMC Karachi.
- Examiner for all PhD and M Phil thesis defense at Ziauddin Medical University Karachi.
- Honorary Consultant Histopathologist Dr. Tahir's Laboratories, Hamdard University Hospital
- Honors of acknowledgment at University of Leicester, Leicester Royal Infirmary, U.K.
- Supervisor For MPhil, PhD, MDS (16 Students) At Dow University Of Health Sciences.
- Member Board of Studies in Basic Oral Health Sciences at Dr. IshratUl-Ibad Institute of Health Sciences.
- Chief Histopathologist Dow Diagnostic Research and Reference Laboratory.
- Consultant & Member Board of studies for Biological Sciences at Szabist University. Research and Development Annual Report. Pg-7, 2010-2011.
- Member Pakistan Medical Association (PMA).
- Member of American Society for Microbiology (ASM) Membership No: 57457897
- Member Board of Governors Dr. Abdul Qadeer Khan Institute of Behavioral Sciences.

MPhil (Histopathology) and MDS (Oral Pathology) Projects **Completed at DUHS as Supervisor:**

1. Histomorphological and clinical correlation of Non-Hodgkin's Lymphoma with
2. Exact characterization by immunophenotyping (Degree Awarded).
3. Histomorphological spectrum of ovarian tumor with immunohistochemical analysis of the poorly differentiated malignancies (Degree Awarded).
4. Histomorphological changes in HCV non responders with respect to viral genotypes. (Degree Awarded).
5. Detection of XMRV in prostate cancer biopsies (Degree Awarded).
6. Prevalence of areca nut chewing habit and its effect on oral mucosa among school going children in Karachi. (Degree Awarded).
7. Quantification of immune infiltrate in breast cancer microenvironment in relation to the NPI and molecular sub-typing (Degree Awarded).
8. Evaluation of Human Epidermal Growth Factor Receptor (Her-2/neu) Expression in Gastric and Colorectal Adenocarcinomas (Degree Awarded).
9. Cell proliferation at tumor tissue interface by the expression of PCNA, Ki67, vimentin and desmin in oral squamous cell carcinoma. Thesis submitted for review (Degree Awarded).
10. Morphometric Analysis of Fatty Liver by the Administration of Ginseng Root in Obese Albino Rat (Degree Awarded).
11. Immunohistochemical marker study of Hodgkin's lymphoma with detection of Epstein barr virus (EBV) by polymerase chain reaction (Degree Awarded)

12. Expression of Htert Gene and mutation Analysis of its Promoter in Head and Neck Cancer in Pakistan (Degree Awarded)
13. Isolation and characterization of human mesenchymal stem cell from cord blood and their differentiation towards keratinocytes (Degree Awarded)
14. Investigating Leukocyte and Stromal Complexity and Characterization of innate and lymphoid immune cells and modulation of macrophages in Hepatocellular Carcinoma (Degree Awarded).
15. Molecular characterization of non-small cell lung carcinoma and evaluation of immunohistochemical markers: Napsin-A and p40 (Degree Awarded).

PhD Research Projects Supervised at DUHS:

1. A Molecular study of Oral SCC and Preneoplasia in relation to oncogenetic Mechanisms in Pakistan PhD Supervisor (Degree Awarded).
2. Hepatic steatosis in Hepatitis Clinic pathologic Correlation with sonomorphology PhD Co Supervisor (Degree Awarded).
3. Ultrastructural Alterations in liver and kidney tissues induced by different doses of Diclofenac Sodium in Rabbits PhD Co Supervisor (Degree Awarded).
4. Clinico-Pathological Correlative study of oral pre-neoplasia and oral cancer with detection of early biomarkers HPV-16, IL6 & IL8 in saliva PhD Co-Supervisor (Degree Awarded).
5. Effect of Ginkgo Biloba Extract on Lead – induced Nephrotoxicity in Albino Rats. PhD Co -Supervisor. (Degree Awarded).
6. Morphometric study of coronaries .and Major arteries in unselected autopsies PhD Co-Supervisor.(Completed and thesis submitted for defense)
7. Genetics of Oral Cancer in Relationship to Carcinogen-Metabolising Genes (PhD Degree Awarded).
8. Investigating Mutational Profile and Structure-Function Relationship of KRAS gene in Oral Squamous Cell Carcinoma (Thesis in writing)
9. Sequetial and Structural Polymorphism in EBNA 1 from EBV Positive Hodgkin’s and Non-Hodgkin’s Lymphoma (Research in Prog)
10. Identification of recurrent and novel mutations in the coding sequence of MYB88 in ABC type of Diffuse large cell lymphoma (Synopsis Submitted)
11. Stem cell research by Hematology
12. Three M Phil Histopathology students in the process of course work and synopsis writing and one MPhil Histopathology student in the process of thesis completion.
13. Three MDS students in the process of course work and synopsis writing.

MPhil (Histopathology) Projects in Progress under Supervision at Ziauddin University (ZU)

1. Clinicopathological spectrum of Glomerular diseases based on Histomorphology & Immunofluorescence studies “MPhil Supervisor
2. Spectrum of Soft tissue tumors

PhD Research Projects in Progress under Supervision at Ziauddin University (ZU) as Supervisor /Co-Supervisor:

1. "Association of BRAFvV600E and KRAS expression with Degree of Differentiation in Colorectal Carcinoma
2. Clinicopathological analysis and association of ACE-2, TMPRSS2 gene polymorphism with severity of COVID-19
3. "Role of Tumor cell Intrinsic mTOR Signaling and PTEN deletion in expression of PD-L1 in microenvironment of Prostate Adenocarcinoma" PhD Supervisor
4. "Plasma Peptidome profile of childhood Acute Lymphoblastic Leukemia with its association to Prognostic factors"
5. "Molecular Characterization of B-Cell Acute Lymphoblastic Leukemia with analysis of distinct Whole Genome Variants in Minimal Residual Disease"
6. "Dysregulated Vitamin D metabolic pathway in relation to protein expression of CYP27B1 and CYP24A1 in normal, benign and malignant breast biopsies"