

*Curriculum vitae*



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Sk 1#G1#/#wf nkr φ #Vz hghq,#  
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1. Name: Muhammad Kalim Tahir
2. Father's Name: Abdul Rashid
3. National Identity Number: 61101-0493716-3
4. Religion: Islam
5. Nationality: Pakistan / J&K National
6. Date of Birth: November 1, 1949
7. Designation: Professor (Retd) on TTS / Ex-Dean Faculty of Sciences
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## 10. Academic Qualification

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<u>Examination</u>	<u>Board / University</u>	<u>Division</u>
Matriculation (1964)	Lahore Board	<i>First</i>
F.Sc. (Pre-Medical)	Lahore Board	Second
F.Sc. (Pre-Engineering)	Lahore Board	<i>First</i>
B.Sc. Honours	Government College	Second
M.Sc. Chemistry (1970)	Lahore	<i>First</i>
M. Phil. (Course Work)	Quaid-i-Azam University	Not applicable
<b>Ph.D. (1988)</b>	<i>Stockholm University Sweden</i>	<i>Highest Grading</i>
<b>Post-Doctorate (1991-1993)</b>	<i>Harvard Medical School Boston USA</i>	<i>Not applicable</i>

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## 11. Academic Distinction

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Academic Roll of Honour (1970) Government College Lahore

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## 12. Other qualifications

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Research Training (1972-73)	Pakistan Medical Research Center ( <i>International Center for Medical Research and Training, University of Maryland Baltimore, USA.</i> ) Lahore.
Radiation Protection (1992) Course for the use of Radionuclides in Research	<i>Harvard Medical School, Boston, United States of America.</i>

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**13. Teaching Experience**

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Feb. 2001-Oct 31, 2009	Department of Chemistry, Allama Iqbal Open University, Islamabad
Jun 1980 to Feb. 2001	Department of Chemistry, University of Azad Jammu and Kashmir, Muzaffarabad (A.K.), Pakistan
Mar 1973 – Jun 1980	Education Department, Government of Azad Jammu and Kashmir, Pakistan

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**14. Posts Held**

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Aug1988 - Oct 31, 2009	Department of Chemistry, Allama Iqbal Open University, Islamabad/University of Azad Jammu and Kashmir, Muzaffarabad, as a <b>Professor</b> .
Mar 1973 to Feb 2001	University of Azad Jammu and Kashmir, Muzaffarabad / Education Department, Government of AJK. As <b>Lecturer/Assistant Professor</b>
Sep 1991 – Aug 1993	<i>Center for Biochemical and Biophysical Sciences and Medicine, Harvard Medical School, Boston, United States of America.</i> <i>As a <b>Lecturer</b>.</i>

**Teaching/Research Experience: More than 36 Years**

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**15. Administrative Experience**

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May 2006 to-Jun 2009	Dean, Faculty of Sciences Allama Iqbal Open University, Islamabad
Feb.2001- Oct 31, 2009	Department of Chemistry, Allama Iqbal Open University, Islamabad. Served as Professor/Chairman of the Department.
Feb 1994 – Feb. 2001 and Sep 1989 – Sep 1991	Department of Chemistry, University of AJK, Muzaffarabad. Served as Professor/Chairman of the Department.

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**16. Additional Assignments at Allama Iqbal Open University**

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- i) Member, Executive Council (Syndicate) Allama Iqbal Open University, Islamabad.
- .ii) Member, National Curriculum Revision Committee in Chemistry, Higher Education Commission, Islamabad.
- iii) Member/Secretary, University Research Complex Advisory Body, Allama Iqbal Open University, Islamabad.

- iv) Member, Board of Management of Endowment Fund, Allama Iqbal Open University Islamabad
- v) Convener, Committee of Courses in Chemistry, Allama Iqbal Open University, Islamabad.
- vi)# Convener, Faculty Board (Sciences) Allama Iqbal Open University, Islamabad.
- vii) Member, Move-over/Selection Grade Committee for Grade 17 and above, Allama Iqbal Open University, Islamabad.

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## **17. Participation in International Conferences / Symposia**

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<b>Conference / Symposium</b>	<b>Organizer</b>
<u>1983</u> Conference on Techniques in Protein Purification	University of Uppsala, Uppsala, Sweden.
<u>1986</u> International Conference on Glutathione-S-Transferase and Carcinogenesis	Trinity College, Dublin Ireland.
<u>1987</u> International Symposium on DT-Diaphorase	University of Stockholm, Stockholm, Sweden.
<u>1989</u> Second International Symposium on Proteins Structure-Function Relationship.	University of Karachi, Karachi, Pakistan.
<u>1995</u> Fourth International Symposium on Proteins Structure-Function Relationship.	University of Karachi, Karachi, Pakistan.
<u>1997</u> Fifth International Symposium on Proteins Structure-Function Relationship.	University of Karachi, Karachi, Pakistan.
<u>1999</u> Environmental Pollution Monitoring Techniques Executive Management Seminar.	PINSTECH / UNDP Pakistan, Atomic Energy Commission, Islamabad.
<u>2001</u> 1 <sup>st</sup> International Chemistry Conference	University of Peshawar, Peshawar

2002

2<sup>nd</sup> International Chemistry Conference

University of Sindh  
Jamshoro.

3<sup>rd</sup> International Chemistry conference

University of Karachi

2004

9<sup>th</sup> International Symposium on Natural  
Products Chemistry

HEJ Research Institute  
of Chemistry, Karachi

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## **18. Field of Research.**

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1. Food Analysis: Estimation of ascorbic acid and trace elements in food samples.
2. Water Analysis: Chemical and bacteriological studies of water samples.
3. Environmental Pollution: Studies on accumulation of toxic elements in human blood after exposure to polluted atmosphere.
4. Purification and characterization of enzymes
5. Isolation and characterization of biologically active compounds from medicinal plants

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## **19. Fellowship/Membership of Societies.**

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1. *Chemical Society of Pakistan (Fellow)*
2. Pakistan Society of Biochemistry and Molecular Biology. (Life Member)

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## **20. M.Phil / Ph.D. Supervised/ Under Supervision**

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Number of M.Phil. Produced: 3

Number of M.Phil. students being supervised: 2

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## **21. PUBLICATIONS**

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1. Iqbal, M.P., Tahir, M.K., Sakai, R.K., and Baker, R.H. (1973) Linkage groups and recombination in the malaria mosquito. *J. Heredity*, 64, 133-136.
2. Sakai, R.K. Iqbal, M.P., Baker, R.H., and Tahir, M.K. (1973) An alcohol dehydrogenase in the mosquito, *Culex tritaeniorhynchus*. *Bull. Ent. Res.* 63, 257-262.
3. Sakai, R.K., Lateef, S., Iqbal, M.P., Tahir, M.K., and Baker, R.H. (1976) Amylase isozyme in the mosquito, *Culex tritaeniorhynchus*. *Canad. J. Genet. Cytol.* 18, 17-21.
4. Mannervik, B., Guthenberg, C., Jensson, H., Tahir, M.K., Warhlo, M., and Alin, P. (1984) Species and tissue differences in the occurrence of isoenzymes of glutathione transferase *Proc. IUPHAR Int. Cong. Pharmacol. (Mitchell, J., Paton, W., and Turner, P. eds.)* 8, 225-230.

5. Tahir, M.K., Guthenberg, C., and Mannervik, B. (1985) Inhibitors for distinction of three types of human glutathione transferases. FEBS LETT. 181, 249-252.
6. Mannervik, B., Alin, P., Danielson, U.H. Guthenberg, C., Jensson, H., Tahir, M.K., Warholm, M., and Jornvall, H. (1985) Structural data and enzymatic Properties defining three classes of mammalian cytosolic glutathione transferase. Fed. Proc. 44, 271.
7. Alin, P., Jensson, H., Guthenberg, C., Danielson, U.H., Tahir, M.K., and Mannervik, B. (1985) Purification of major basic glutathione transferase isoenzymes from rat liver by use of affinity chromatography and fast protein liquid chromatography. Anal. Biochem. 146, 313-321.
8. Guthenberg, C., Jensson, H., Nystrom, L., Osterlund, E., Tahir, M.K., and Mannervik, B. (1985) Isoenzymes of glutathione transferase in rat kidney cytosol. Biochem. J. 230, 609-615.
9. Robertson, I.G.C., Jensson, H., Guthenberg, C., Tahir, M.K., and Mannervik, B. (1985) Differences in the occurrence of glutathione transferase isoenzymes in rat lung and liver. Biochem. Biophys. Res. Commun. 127, 80-86.
10. Mannervik, B., Alin, P., Guthenberg, C., Jensson, H., Tahir, M.K., Warholm, M., and Jornvall, H. (1985) Identification of three classes of cytosolic glutathione transferase common to several mammalian species: Correlation between structural data and enzymatic properties. Proc. Natl. Acad. Sci. USA. 82, 7202-7206.
11. Tahir, M.K., and Mannervik, B. (1986) Simple inhibition studies for distinction between homodimeric and heterodimeric Isoenzymes of glutathione transferase. J. Biol. Chem. 261, 1048-1051.
12. Warholm, M., Jensson, H., Tahir, M.K., and Mannervik, B. (1986) Purification and characterization of three distinct glutathione transferases from mouse liver. Biochemistry 25, 4119-4125.
13. Mannervik, B., Castro, V.M. Danielson, U.H., Tahir, M.K., Hansson J., and Ringborg, U. (1987) Expression of class Pi glutathione transferase in human malignant melanoma cells. Carcinogenesis, 8, 1929-1932.
14. Tahir, M.K., Guthenberg, C., and Mannervik, B. (1987) The Isoenzyme composition of glutathione transferase in a rat hepatoma cell line in "Glutathione-S-Transferases and Carcinogenesis" (Mantle, T.J. Pickett, C.B., and Hayes, J.D. eds.) pp. 259-260. Taylor & Francis, London.
15. Mannervik, B., Alin, P., Danielson, U.H., Guthenberg, C., Jensson, H. Ozer, N., Tahir, M.K., Warholm, M., and Jornvall, H. (1987) Three classes of mammalian

- glutathione transferase in the rat and mouse. In "Glutathione-S-Transferases and Carcinogenesis" (Mantle, T.J., Pickett, C.B., and Hayes, J.D. eds.) pp. 19-27. Taylor and Francis, London.
16. Smith, M.T., Doane-Setzer, P., Evans, C.G., Castro, V., Tahir, M.K., and Mannervik, B. (1987) Denitrosation of BCNU by glutathione transferases is isoenzyme specific. A possible new mechanism of resistance to this drug in brain tumor cells. Proc. Am. Ass. Cancer. Res. 28, 288.
  17. Tahir, M.K., Nazmi, O., and Mannervik, B. (1988) Isoenzymes of glutathione transferase in rat small intestine. Biochem. J. 253, 759-764.
  18. Tahir, M.K. (1989) Purification of glutathione transferases from rat hepatoma cells. Proc. Natl. Chem. Conf. 1, 456-465.
  19. Tahir, M.K., Guthenberg, C., and Mannervik, B. (1989) Glutathione transferases in rat hepatoma cells. Effect of ascites cells on the isoenzyme pattern in liver and induction of glutathione transferases in the tumor cells. Biochem. J. 257, 215-220.
  20. Jernstrom, B., Dock, L., Hall, M., Mannervik, B., Tahir, M.K., and Gover, P.I. (1989) Glutathione transferase catalyzed conjugation of benzo (a) pyrene 7, 8-diol 9, 10-epoxide with glutathione in human skin. Chem. Biol. Interactions, 70, 173-180.
  21. Smith, Martyn T., Evans, Celia G., Doane-Setzer, P., Castro Victor, Tahir, M.K., and Mannervik, B. (1989) Denitrosation of 1, 3-Bis (2-Chloroethyl)-1-nitrosourea by class Mu Glutathione transferases and its role in cellular resistance. Cancer Res. 49, 2621-2625
  22. Rozell, B., Hansson, H.-A., Guthenberg, C., Tahir, M.K. and Mannervik, B. (1993) Glutathione transferases of class Alpha, Mu and Pi show selective expression in different regions of rat kidney. Xenobiotica, 23, 835-849.
  23. Klysov, A.A., Rashkovetsky, L.G., Tahir, M.K. and Keung, W.-M. (1996) Possible role of liver cytosolic and mitochondrial aldehyde dehydrogenases in acetaldehyde metabolism. Biochemistry, 35, 4445-4456.
  24. Tahir, M.K., (1988) Cytosolic glutathione transferase published by the University of Stockholm, Sweden. ISBN 91-7146-563-4.
  25. Tahir, M.K. (1997) Inhibition as a criterion for identification of glutathione transferases. Kashmir Res. J. Nat. Sci. I, 39-45.
  26. Rashid, N., Hasan, M. Tahir, M.K. Yusof, N. M. and Yamin, B.M. (2007) 1-(4-Methylphenylsulfonyl)-5-nitro-1*H*-benzimidazole. Acta.Cryst E63, o323-o324

27. Rashid, N. Tahir, M.K. Yusof, N. M. and Yamin, B.M. (2007) 2-(4-Bromophenyl)-1*H*-benzimidazole. Acta.Cryst E**63**, o1260-o1261
28. Rashid, N. Tahir, M.K. Kanwal, S. Yusof, N. M. and Yamin, B.M. (2007) 2-(4-Fluorophenyl)-1*H*-benzimidazole. Acta.Cryst E**63**, o1402-o1403
29. Yunus, U. Tahir, M.K. Bhatti, M.H. Ali,S. and Helliwell, M. (2007) 2-Pheyl-4*H*-thiazolo[3,2-*a*][1,3,5]triazine-4-thione Acta.Cryst E**63**, o3690
30. Rashid, N. Abbasi, M.S.A. Tahir, M.K. Yusof, N. M. and Yamin, B.M. (2008) Isolation and crystal structure of karanjachromene Analytical Sciences, 24, x21-x22
31. Yunus, U. Tahir, M.K. Bhatti, M.H. Ali,S. and Wong, W-Y.(2008) 1-(1,3-Benzothiazol-2-yl)-3-benzoylthiourea Acta.Cryst E**64**, o20
32. Yunus, U. Tahir, M.K. Bhatti, M.H. Yousaf, N., and Helliwell, M. (2008) 2-(4-Amino-5-thioxo-4,5-dihydro-1*H*-1,2,4-triazol-3-ylmethyl)isoindoline-1,3-dione. Acta.Cryst E**64**, o476-o477.
33. Yunus, U. Tahir, M.K. Bhatti, M.H. and Wong, W-Y.(2008) 2-Propyl-4*H*-thiazolo[3,2-*a*][1,3,5]triazine-4-thione Acta.Cryst E**64**, o722.
34. Rashid, N., Hasan, M. Tahir, M.K., Yusof, N.M., and Yamin, B.M. (2008) Crystal structure of 4-Methyl-5-trifluoroacetyl-1,3,4,5-tetrahydro-2*H*-1,5-benzodiazepin-2-one. Analytical Sciences, 24, x199 – x200
35. Saeed, S. Bhatti, M.H., Tahir, M.K., and Jones, P.G. (2008) Ethyl 4-(3-butyrylthio ureido) benzoate Acta.Cryst E**64**, o1369.
36. Yunus, U., Tahir, M.K., Bhatti, M.H., and Wong, W-Y. (2008) N – (Thiazol-2-yl) Acetamide. Acta.Cryst E**64**, o1516.