

**Dr. MUHAMMAD TARIQ***Assistant Professor, Center for Omic Sciences, Islamia College Peshawar, Pakistan**PhD from Hazara University Mansehra, Pakistan***Personal information:**

Father Name *Muhammad Tahir*
Date of Birth *April 12, 1982*
Nationality *Pakistani*
Permanent address *Village & P/O Hazara, Tehsil Kabal, District Swat - 19060, Pakistan*
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Academic Qualification:

PhD (Genetics) (Human Genetics/Molecular Anthropology) (2017)
Hazara University Mansehra, Pakistan
MPhil (Genetics) Hazara University Mansehra, Pakistan (2011)
MSc (Genetics) Hazara University Mansehra, Pakistan (2007)
BSc (Biosciences) University of Malakand, Pakistan (2004)
FSc (Pre-Medical) BISE Swat, Pakistan (2001)
SSc (Science) BISE Swat, Pakistan (1999)

Awards/Distinctions:

- Selected as first Assistant Professor in the Centre for Omic Sciences, Islamia College Peshawar (Public Sector University) under IPFP (HEC) Program. (**March 8, 2017**)
- Awarded *Scholarship worth \$ 21,000* by Higher Education Commission of Pakistan for the completion of PhD Research Project in the University of Pennsylvania USA. (**2015**)
- Got *First Position & Distinction* for securing first position in MPhil Course work. (**2009**)
- Awarded “*Merit Certificate & Gold Medal*” for securing first position in MSc Genetics. (**2007**)
- Awarded *Certificate* by California State University Bakersfield USA for outstanding performance and lasting contribution to “A Dental Investigation of the Biological Origins and Interactions among ethnic Groups of Northern Pakistan”. (**2007**)
- Got *Third Position* in SSC exam from GHSS Kabal Swat, Pakistan. (**1999**)

Teaching and Research Experience:

Assistant Professor [BPS-19] (Aug, 2018-Cont...)
Centre for Omic Sciences (Islamia College, Peshawar-Public Sector University of Pakistan)

Assistant Professor [Contract] (Mar, 2018-Aug, 2018)
Centre for Omic Sciences (Islamia College, Peshawar-Public Sector University of Pakistan)

Assistant Professor [IPFP] (Mar, 2017-Mar, 2018)
Centre for Omic Sciences (Islamia College, Peshawar-Public Sector University of Pakistan)

Research Associate (Mar, 2011-Dec, 2015)
Department of Genetics (Hazara University Mansehra, Pakistan)

Visiting Doctoral Research Fellow (2015-2016)
Department of Anthropology (University of Pennsylvania, USA).
Genetic Characterization of the Major Ethnic groups of Khyber Pakhtunkhwa, Pakistan. Amplification of DNA and sequencing. Fragment analysis. Cluster analysis.

Lecturer (2011-2012)
Department of Genetics (Hazara University Mansehra, Pakistan)
Undergraduate, BS and MSc. teaching the courses Human Genetics, Oncogenetics, Molecular Biology, Developmental Genetics, Molecular Virology and Bacteriology, Principles of Biotechnology and Physiological Genetics

Lecturer (2010-2011)
Department of Zoology (Hazara University Mansehra, Pakistan)
Undergraduate, BS and MSc. teaching the courses: Molecular Biology and Bioinformatics

Research Projects Experience:

- ⇒ **Establish Center for Omic Sciences (2017)**
At Islamia College Peshawar (Public Sector University)
- Completion of HEC Research Project on “*Genetic analysis of the Major tribes of Buner and Swabi areas through dental morphology and DNA analysis*”. **(PhD Thesis). (2017)**
 - Completion of Directorate of Science & Technology (Dost) Khyber Pakhtunkhwa Project “*Haplotypic Diversity and Dental Traits Variation in the Major Ethnic Groups of Haripur*” **(Prepared Project Report) Rs 0.08 Million (2017)**
 - Completion of HEC Research Project “*Enthnogenetic elaboration of different ethnic groups of KP through Dental morphology and DNA Analysis*” **(PhD Scholar and Research Associate) RS.5.1Million. (2011-2016)**

- Completion of HEC Research Project on “*DNA based characterization of various ethnic groups of Hazara*” (**MPhil Thesis**). (2011)
 - Completion of HEC Research Project on “*Mechanism and Applications of RNA interference*” (**MSc Thesis**). (2007)
- ⇒ **Establish Center for Human Genetics** (2013)
At Hazara University Mansehra with Prof. Dr. Habib Ahmad (Tamga-e-Imtiaz)
PhD supervisor/ Dean Faculty of Science, Hazara University Mansehra

Specialization:

Human Genetics, Molecular Anthropology, Development Genetics, Molecular Genetics, Physiological Genetics.

Area of Interest: Mitochondrial DNA analysis, Y-chromosome analysis (STR, SNPs), Forensic Science, inherited and infectious diseases etc.

Skills:

Software: Proficient in SPSS, Arlequin, Statistica, MEGA6 (Biological Softwares)
Network, MS Office, internet research.

Publications:

1. Torres, J. B., V. Martucci, M. C. Aldrich, M. G. Vilar, T. MacKinney, J. B. Gaieski, R. B. Hernandez, Z. E. Browne, M. Stevenson, W. Walters, **M. Tariq** and T. G. Schurr. 2018. Analysis of Biogeographic Ancestry Reveals Complex Genetic Histories for Indigenous Communities of St. Vincent and Trinidad. Proc. Natl. Acad. Sci. U.S.A. (Impact factor 9.9).
2. **Tariq, M.**, Ahmad H. Schurr T. G and Farooq U. 2018. Mitochondrial DNA and Y-Chromosome polymorphisms between ethnic groups from Swabi and Buner area of Khyber Pakhtunkhwa, Pakistan. Journal of Molecular Biology and Evolution. (Accepted). (Impact factor 13.9)
3. **Tariq, M.**, Ahmad H. Hemphill B, Schurr T. G and Farooq U. 2018. Frequency distribution of nonmetric dental traits in five tribal populations from Khyber Pakhtunkhwa Province of Pakistan. American Journal of physical Anthropology. (Under review) (Impact factor 2.824)
4. **Tariq, M.**, Ahmad H, Inamullah, Farooq U, Ahmad T. 2016. Y-chromosome polymorphisms in two Pakistani ethnic groups and its relationship with neighboring Indian populations. Int. J. Biosci. 9 (2): 159-163. (Impact factor 0.553)
5. **Tariq, M.**, H. Ahmad, B. Hemphill, N. Sadiq, M. Ilyas, Inamullah, N. Fazal. 2016. Genetic variation among members of the major ethnic groups of the Himalayan region of Khyber Pakhtunkhwa. Conser. Biol. Pak. 1(1): 1-8, 2016. (HEC “Y” Category)
6. Ahmad, T., Zohaib, M. Daud, Q. Zaman, Saifullah, M. A. Jadoon, M. Ismail, **M. Tariq**, A. Hussain et al. 2015. Prevalence of Tuberculosis Infection in General

- Population of District Dir (Lower) Pakistan. Middle-East Journal of Scientific Research. 23 (1): 14-17. (Impact factor 0.38)
7. Waqar, M., H. Rehman, A. U. Khan, A. A. Noor, A. Ali, M. Wasim, M. Idress, Z. Ismail, Z. Niaz, N. Akbar and **M. Tariq**. 2014. Frequency distribution of hepatitis C Virus genotypes in district Karachi, Pakistan. Journal of Gastroenterology and Hepatology Research. 3 (4): 1035-1038. (HEC “Y” Category)
 8. Waqar, M., A. U. Khan, H. U. Rehman, M. Idrees, M. Wasim, A. Ali, Z. Niaz, Z. Ismail, M. U. Rehman, **M. Tariq**, M. Shah, B. N. Murtaza. 2013. Determination of Hepatitis C Virus Genotypes circulating in different districts of Punjab Pakistan. European Journal of Gastroenterology Hepatology. PMID: 23743560 (Impact factor 2.093)
 9. Ilyas, M., M. Alam, H. Ahmad, **M. Tariq**, S. Bibi, A. Ali and Inamullah. 2009. Awareness regarding bioethical issues among the students and faculty of Hazara University. Pakistan Journal of Medical Sciences. 25: 97-102. (Impact factor 0.544)

Conference Presentations:

Abstract Presentations:

1. Schurr, T. G., **M. Tariq**, H. Ahmad. 2016. Genetic history of the major tribes of Pakistan. Am J Phys Anthropol. 159 (S62): 285.I (Impact factor 2.824)
<http://meeting.physanth.org/program/2016/session23/schurr-2016-genetic-history-of-the-major-tribes-of-pakistan.html>
2. **Tariq, M.**, H. Ahmad, M. S. Nadeem, M. Ilyas, N. Fazal, S. Khan, M. Ali, S. Gul. 2014. Haplotypic Diversity of Y- chromosome STR loci in major ethnic groups from Hazara region. Pharmacology online Supplementary Issue. (3): p77. ISSN: 1827-8620. (Impact factor 2.824)
https://www.researchgate.net/publication/273449538_Haplotypic_Diversity_of_Y_chromosome_STR_loci_in_major_ethnic_groups_from_Hazara_region.

Membership of Scientific Societies:

⇒ Member: European Association for Vision and Eye Research

Seminars and Trainings, Workshops attended:

1. Participated in two days workshops title “Building our bioeconomy one startup at a time” hosted by Hazara University, Mansehra on 21-22 April 2016 and organized by the Directorate of Science and Technology, Government of Khyber Pakhtunkhwa and the Institute of Integrative Bioscience, CEOCS University, Peshawar.
2. Environmental health and Radiation safety certificate of training (Introduction to Laboratory and Biological safety) on 22-04-2015. University of Pennsylvania, USA.

3. Participated in four days' International symposium on the Himalayas of Pakistan "Resources and conservation issues" organized by Department of Genetics Hazara University Mansehra from 27-30 November 2014.
4. Participated in Science and technology exhibition, 2014 organized by Directorate of science and technology Government of Khyber Pakhtunkhwa.
5. Participated Three-Day International Symposium on Basic Techniques in Research, Dissertation and Paper Writing in Life Sciences on July 27-29, 2010. Department of Zoology, Hazara University Mansehra.
6. Participated in HEC Sponsored Training Workshop on "Utilization of DNA technology in plant improvement" in Organized by Department of Genetics, Hazara University Pakistan. [2010].

Research Students Supervised/Trained

<u>Level</u>	<u>Number of Trainees</u>
PhD Students	01 (Hazara University Mansehra)
MPhil Students	20 (Hazara University Mansehra)
Undergraduate Students	12 (Hazara University Mansehra)

References:

1. **Prof. Dr. Theodore G. Schurr**, Professor of Molecular Anthropology, Department of Anthropology, University of Pennsylvania, USA, Ph: +1-215-573-7632
E-mail: tgschurr@sas.upenn.edu. Web Page:
<https://www.sas.upenn.edu/anthropology/people/schurr>
2. **Prof. Dr. Habib Ahmad (TI)**, Professor of Genetics, Vice Chancellor, Islamia College Peshawar (Public Sector University of Pakistan). Ph: 0092 3339991959 & +9291 9216513-17 E-mail: drhahmad@gmail.com, Web Page:
<http://www.hu.edu.pk/viewfaculty.php?id=5>
3. **Dr. Niaz Ali**, Assistant Professor of Botany, Department of Botany, Hazara University Mansehra, Pakistan Ph:+92-997-414130 E-mail: niaz @hu.edu.pk. Web Page:
http://www.hu.edu.pk/oldwebsitehu/webtest/view_facultydetail.php?f_id=56