Muhammad Shahzad

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EDUCATION

Ph.D. Molecular Biology

National Centre of Excellence in Molecular

Biology, University of the Punjab Lahore

Ph.D.

Fellowship Department of immunology, Genetic & Pathology

Uppsala University Sweden

M.Phil. Molecular Biology & Forensic Science

University of the Punjab Lahore, Pakistan

Thesis title: 'Genetic Variations of 30 Indels in Punjabi Population of

Pakistan'

M.Sc. Applied Chemistry

University of Engineering and Technology Lahore Pakistan

Dissertation title: 'Comparative determination of Lead and Nickel in the

blood sample of healthy and cancerous patients.

B.Sc. Botany, Zoology and Chemistry,

Islamia College Civil Lines, University of the Punjab Lahore, Pakistan

PROFESSIONAL EXPERIENCE

Research Officer: April 2008 to date

Centre for Applied Molecular Biology University of the Punjab Lahore, Pakistan

I was involved in the DNA profiling process from the examination of the exhibits, isolation of DNA, results interpretation of DNA profiles/results, reporting and providing expert opinion in court of law. I was also trained in specialized laboratory techniques which target the retrieval of DNA from more challenging and compromised samples. I also take part in the research and development of new multiplex and population genetics studies. I have current focus on introduction of epigenetic approaches in forensic genetic and pharmacogenetic analysis.

December 2019 to December 2020: Ph.D Research fellowship at Uppsala University Sweden



PUBLICATIONS

- Sajid a, Shafique M, Shahzad M, Ali Shahid A, 2021: Fingerprint Patterns and Ridge Density Variations In Pakistani Population: A Comparative Study. Anthropologie (brno) 59, 1: 1-.
- Perveen, R., Shahid, A. A., Shafique, M., Shahzad, M., & Akram, M. (2019). Kashmiris phylogenetic depictions through uniparental and biparental genetic markers. *International journal of legal medicine*, 1-2.
- Shahzad, M., Hussain, M., Shafique, M., Perveen, R., & Sheikh, N. (2019).
 Population genetic data of 30 insertion—deletion markers in Punjabi population of Pakistan. *International journal of legal medicine*, 1-2.
- Batool, Z., Perveen, R., Sheikh, N., Khan, A. A., Ilyas, M., Shahzad, M., & Kaleem, S. (2018). Genetic analysis of 15 autosomal STRs in Yousafzai population of Pakistan. *International journal of legal medicine*, 132(6), 1635-1636.
- Khan, A. A., Perveen, R., Sheikh, N., Abbasi, B. H. A., Batool, Z., Shahzad, M., & Kaleem, S. (2018). Genetic polymorphism of 15 autosomal short tandem repeats in Baloch population of Pakistan. *International journal of legal medicine*, 1-2.
- Perveen, R., Shahid, A. A., Shafique, M., Shahzad, M., & Husnain, T. (2017). Genetic variations of 15 autosomal and 17 Y-STR markers in Sindhi population of Pakistan. *International Journal of Legal Medicine*, 1-2.
- Shafique, M., Shahzad, M. S., Rahman, Z., Shan, M. A., Perveen, R., Shahzad, M. & Husnain, T. (2016). Development of new PCR multiplex system by the simultaneous detection of 10 miniSTRs, SE33, Penta E, Penta D, and four Y-STRs. *International journal of legal medicine*, 130(6), 1409-1419.
- Javed, Z., Ullah, M., Ashfaq, H. A., Shah, A. H., Shahzad, M., Bilal, M., ... & Sadia, H. (2016). Role of MicroRNA in Endometrial Carcinoma. Advancements in Life Sciences, 4(1), 08-13.
- Shahzad, M., Shafique, M., Hussain, M., Shan, M. A., Perveen, R., Rehman, Z., & Idrees, M. (2016). Successful DNA Profiling for Identification of burnt Families from their bones using AmpFlSTR Identifiler® Plus Kit. Advancements in Life Sciences, 3(2), 59-62.
- Shan, M. A., Hussain, M., Shafique, M., Shahzad, M., Perveen, R., & Idrees, M. (2016). Genetic distribution of 15 autosomal STR markers in the Punjabi population of Pakistan. *International journal of legal medicine*, 130(6), 1487-1488.
- Shafique, M., Hussain, M., Shan, M. A., Shahzad, M., Hussain, S., Hussain, N., & Iqbal, M. (2015). Genetic diversity of 15 autosomal STR loci in the population of Southern Punjab Pakistan. Forensic Science International: Genetics, 19, e1-e2.

Shan, M. A., Tahira, F., Shafique, M., Hussain, M., Perveen, R., Shahzad, M., ... & Iqbal, M. (2015). Estimation of different biochemical intensities in drinking water from eastern region of Lahore city. Advancements in Life Sciences, 2(3), 131-134.

SKILL HIGHLIGHTS

- Serology of Forensic Evidence Material
- DNA profiling (DNA extraction, quantification, amplification and Capillary electrophoresis).
- GeneMapper ID
- Pyrosequencing
- Low copy Number DNA analysis field
- DNA methylation analysis
- Clean Room working Practice

AWARDS AND HONOUR

- Higher Education Commission Pakistan Scholarship for Ph.D studies in Pakistan and abroad
- Publication incentive awards from University of the Punjab for the years 2015 to 2019