

# CURRICULUM VITAE

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## **MUHAMMAD ADNAN SHAN**

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## **ACADEMIC QUALIFICATION**

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| 2012-14 | <b>M. Phil. (Molecular Biology)</b><br>National Centre of Excellence in Molecular Biology<br>University of the Punjab, Lahore, Pakistan. |
| 2003-06 | <b>M. Sc. (Applied Chemistry)</b><br>Department of Chemistry<br>University of Engineering and Technology, Lahore, Pakistan.              |
| 2000-02 | <b>B.Sc. (Zoology, Botany &amp; Chemistry)</b><br>Govt. Degree College Gujranwala,<br>University of the Punjab, Lahore, Pakistan.        |
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## **PROFESSIONAL APPOINTMENTS:**

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- **Research Officer cum Lecturer)** April 2008 - To date  
Centre for Applied Molecular Biology (CAMB),  
University of the Punjab, Lahore, Pakistan.
- **Assistant Research Officer)** April 2006 – March 2008  
Centre for Applied Molecular Biology (CAMB),  
University of the Punjab, Lahore, Pakistan.

## **RESEARCH INTEREST:**

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- Population Genetics & Phylogenetic studies
- Forensic Anthropology
- Human Evolution
- Forensic Archaeology

## **TECHNICAL SKILLS:**

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- DNA / RNA Isolation
- Polymerase Chain Reaction
- Western Blotting
- Real-Time PCR
- DNA Genotyping & Sequencing
- Biostatistical Genomic Data Analysis

## **PUBLICATIONS:**

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- **Shan MA**, Hussain M, Shafique M, Shahzad MS, Perveen R, Idrees M (2016). Genetic distribution of 15 autosomal STR markers in the Punjabi population of Pakistan. *International Journal of Legal Medicine*: DOI 10.1007/s00414-016-1351-2.
- Shafique M, Shahzad MS, Rahman Z, **Shan MA**, Perveen R, Shahzad M, Hussain 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*: DOI 10.1007/s00414-016-1372-x.
- Shahzad M, Shafique M, Hussain M, **Shan MA**, Perveen R, Ziaurehman, 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.
- Shafique M, **Shan MA**, Hussain M, Shahzad M, Perveen R, Hussain S, Hussain N, Iqbal M (2015). Genetic polymorphism of 15 autosomal STR in Southern Punjabi population of Pakistan. *Forensic Science International: Genetics*
- **Shan MA**, Tahira F, Shafique M, Hussain M, Perveen R, Shahzad M, Ehsan F, Shahzad MS, Rahman Z, Ali Q, 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.
- Shafique M, Shahzad MS, **Shan MA**, Ali A, Rahman Z, Husnain T (2015). Genetic polymorphism of ten MiniSTR loci in the population of Punjab Pakistan for forensic application. *International Journal of Legal Medicine* 129 (5): 937-942.
- Perveen R, Rahman Z, Shahzad MS, Israr M, Shafique M, **Shan MA**, Zar MS, Iqbal M (2014). Y-STR haplotype diversity in Punjabi population of Pakistan. *Forensic Science International: Genetics*, 9, e20-e21.

### **INTERNATIONAL TRAININGS:**

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- A Training Course on DNA Short Tandem Repeat (STR) Analysis at Strand Analytical Laboratories, Indianapolis, Indiana, USA from Sep. 10, 2007-Dec. 31, 2007.
- A Training Course on Business Ethics at Strand Analytical Laboratories, Indianapolis, Indiana, USA from Sep. 10, 2007-Dec. 31, 2007.
- A Training Course on Expert Witness Testimony at Strand Analytical Laboratories, Indianapolis, Indiana, USA from Sep. 10, 2007-Dec. 31, 2007.
- A Training Course on Sexual Harassment Awareness at Strand Analytical Laboratories, Indianapolis, Indiana, USA from Sep. 10, 2007-Dec. 31, 2007.

### **CONFERENCE/SYMPOSIA/SEMINARS ATTENDED:**

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- Hands on Training Workshop on Next Generation Sequencing (NGS) Data Analysis organized by COMSATS Institute of Information Technology, Islamabad on February 1-3, 2017.
- 18<sup>th</sup> International Symposium on Human Identification at Hollywood, California, USA sponsored by Promega Corporation on October 01-04, 2007.
- International Symposium on Molecular Forensic: Emerging Trends at University of Health Sciences, Lahore, Pakistan on May 29, 2014.
- A Seminar on Evolution in Molecular Diagnostics at Center for Applied Molecular Biology (CAMB), University of The Punjab, Lahore on August 30, 2013.
- A Seminar on New Technology Tools and applications in Biological Research at Center for Applied Molecular Biology (CAMB), University of The Punjab, Lahore on September 27, 2013.
- 11<sup>th</sup> Training Workshop on Modern Forensic Techniques for Crime Scene Search and Investigations, jointly organized by Strand Analytical Laboratories Indiana, USA and Center of Excellence in Molecular Biology (CEMB), Lahore, Pakistan on July 19, 2008.

- 9<sup>th</sup> Training Workshop on Modern Forensic Techniques for Crime Scene Search and Investigations, jointly organized by Strand Analytical Laboratories Indiana, USA and Center of Excellence in Molecular Biology (CEMB), Lahore, Pakistan on November 21-22, 2007.
- 7<sup>th</sup> Training Workshop on Modern Forensic Techniques for Crime Scene Search and Investigations, jointly organized by Strand Analytical Laboratories Indiana, USA and Center of Excellence in Molecular Biology (CEMB), Lahore, Pakistan on December 15-16, 2006.
- 6<sup>th</sup> Training Workshop on Modern Forensic Techniques for Crime Scene Search and Investigations, jointly organized by Forensic Laboratory, Indianapolis, Marion County, USA and Centre of Excellence in Molecular Biology (CEMB), Lahore, Pakistan on July 14-15, 2006.
- 12<sup>th</sup> Shaukat Khanum Cancer Symposium at Pearl Continental (PC) Hotel, Lahore, Pakistan on November 29 - December 1, 2013.
- Training Course on Advances in Applications of Molecular Biology organized by Centre of Excellence in Molecular Biology (CEMB), University of The Punjab, Lahore, Pakistan on December 19-23, 2011.
- A Conference on DNA Day & NAYS-Emerging Ideas jointly organized by National Academy of Young Scientists (NAYS) Pakistan and Center of Excellence in Molecular Biology (CEMB), Lahore, Pakistan sponsored by The Emerging Nations Science Foundation (ENSF) on April 25, 2013.
- 1<sup>st</sup> National Conference on Integrated Role of Forensic Sciences in Criminal Justice System at The University of Lahore, Lahore, Pakistan on September 25, 2014.
- A Training Workshop on Collection, Preservation and Dispatch of Evidence material in Sexual Assault organized by Center of Excellence in Molecular Biology (CEMB) and Center for Applied Molecular Biology (CAMB), Lahore, Pakistan on March 28, 2009.

- Hands on training on Advances in Nucleic Acid Technology organized by scientific supplies (PVT) Ltd. In collaboration with SANSURE Biotech Inc. at CAMB on September 01, 2016.
  
- A Day with Biosafety conducted by National Centre of Excellence in Molecular Biology (CEMB), University of The Punjab, Lahore in collaboration with Congress of Molecular Biology and Gull's Associates on October 25, 2016.
  
- A lecture on Phen-Gen: combining phenotypes and genotypes to analyze rare disorders delivered by Dr. Asif Javed, Research Scientist at Genome Institute of Singapore held at National Centre of Excellence in Molecular Biology (CEMB), University of The Punjab, Lahore on November 02, 2016.
  
- A DNA strategy Symposium organized by Punjab Forensic Science Agency (PFSA) in collaboration with British High Commission at PC Hotel Lahore on January 18-19, 2016.