

# RUKHSANA PERVEEN

- Assistant Professor (Ph. D)
- CAMB, University of the Punjab,
- Lahore 54590, Pakistan.
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## PROFILE

A dedicated Molecular Biologist with more than 17 years of experience in Forensic Sciences. Enthusiastic team player. Published 21 research articles in peer review journals.

Awarded with Performance evaluation and research incentive awards from year 2016 -2021

## RESEARCH INTERESTS

Human Evolutionary Genetics  
Forensic Sciences  
Population Genetics  
Genotype/Phenotype correlation  
Epigenetics  
Forensic proteomics  
Role of Mitochondria in Aging & Diseases

## WEBSITE:

<http://www.camb.edu.pk/facultie>

## REFERENCES

### Dr. Ahmad Ali Shahid

Professor, CEMB, Punjab University  
Mobile +92-322-4854973  
[ahmadali.iags@pu.edu.pk](mailto:ahmadali.iags@pu.edu.pk)

### Dr. Idrees Ahmad Nasir

Professor, CEMB, Punjab University  
Mobile +92-321-7440016  
[idreesnasir.cemb@pu.edu.pk](mailto:idreesnasir.cemb@pu.edu.pk)

## EDUCATION & CREDENTIALS

### Ph.D. (Molecular Biology) May, 2018

Forensic Sciences, Centre of Excellence in Molecular Biology (CEMB), University of the Punjab Lahore, Pakistan

### Master of Philosophy (Molecular Biology) Aug, 2012

Centre of Excellence in Molecular Biology (CEMB), University of the Punjab Lahore, Pakistan

## PROFESSIONAL EXPERIENCE

### University of the Punjab Pakistan, Assistant Professor May 2018 – Present

Teaching Forensic courses to M. S and Ph. D  
Research supervisor of M.S/ Ph. D Research Projects  
Curriculum development and upgrading

### University of the Punjab Pakistan, DNA Analyst/lecturer July, 2005 – May, 2018

Taught forensic courses to M.S Students  
Solved more than 500 Forensic cases as a DNA analyst in CAMB forensic services laboratory  
Worked as Senior analyst in CAMB Diagnostic Laboratory

### Visited Strand Analytical Labs, Indianapolis, Indiana, USA May, 2006 – Nov, 2006

Attended a foreign training to solve Forensic cases as a DNA analyst

## SKILLS AND EXPERTIES

- Genomic DNA, Mitochondrial DNA and RNA isolation from different Biological Sources
- Quantification on Real time PCR
- PCR (Polymerase Chain Reaction).
- Gel Electrophoresis.
- Spectrophotometer.
- Genotyping/ Sequence Analysis
- Data Analysis using Statistical Tools.

## M.PHIL/ MS SUPERVISED

### HEC APPROVED SUPERVISOR.

#### MS/M.PHIL. 2015-2017

- Mutation rate analysis of 17 Y-STRs in father-son pairs of Pakistani population
- Genetic Polymorphism of 15 Autosomal STRS in Baloch Population of Pakistan
- Genetic Diversity of 15 Autosomal STRS in "Yousaf Zai" Population of Khyber Pakhtun Khwa
- Allelic Frequencies of 15 Autosomal STR loci In Jadoon and Khatak Population of Khyber Pakhtun Khawa

#### MS/M.PHIL. 2016-2018

- Association of Mitochondrial DNA Polymorphism with Aging in Hunza Population
- Mitochondrial DNA Polymorphism in Leukemia

#### MS/M.PHIL. 2017-2019

- Forensic application of SNPs for eye colour prediction in Pakistani population
- ABO blood grouping prediction through SNPs analysis in Pakistani population
- Forensic analysis of Raw meat adulteration using mitochondrial DNA

#### MS/M.PHIL. 2018-2020

- In silico protein structure prediction from convolvulus arvensis
- Inhouse development of a cost-effective equine genotyping kit
- validation and characterization of horse genotyping markers

## CURRENT RESEARCH PROJECTS

- Multiplex development for the Equine genotyping
- Development of Forensic Proteomics analysis
- Forensic and Phylogenetic characterization of Pakistani Populations
- Role of Mitochondria in Aging & Diseases

## AWARDS/ ACHIEVEMENTS

- National Performance Evaluation award for the Year 2015 from worthy Vice Chancellor, University of the Punjab, Lahore Pakistan.
- National Incentive awards of publications for the Year 2015 from Vice Chancellor University of the Punjab, Lahore Pakistan.
- National Performance Evaluation award for the Year 2016 from worthy Vice Chancellor University of the Punjab, Lahore Pakistan
- Award National Incentive awards of publications for the Year 2016 from Vice Chancellor University of the Punjab, Lahore Pakistan.
- National Incentive awards of publications for the Year 2017 from Vice Chancellor University of the Punjab, Lahore Pakistan.
- National Performance Evaluation award for the Year 2017 from worthy Vice Chancellor University of the Punjab, Lahore Pakistan

- National Performance Evaluation award for the Year 2018 from Vice Chancellor University of the Punjab, Lahore Pakistan.
- National Incentive awards of publications for the Year 2018 from Vice Chancellor University of the Punjab, Lahore Pakistan.
- National Performance Evaluation award for the Year 2019 from Vice Chancellor University of the Punjab, Lahore Pakistan.
- National Incentive awards of publications for the Year 2019 from Vice Chancellor University of the Punjab, Lahore Pakistan.
- National Performance Evaluation award for the Year 2020 from Vice Chancellor University of the Punjab, Lahore Pakistan.
- National Incentive awards of publications for the Year 2020 from Vice Chancellor University of the Punjab, Lahore Pakistan.

## PUBLICATIONS

- Farooq, S., Nabi, A. G., Mateen, R. M., Tariq, A., Hussain, M., & Parveen, R. (2021). Covid-19 and early release of prisoners: Implications and future perspective. *Forensic Science Review*, 99-100.
- Nabi, A. G., Mateen, R. M., Khalid, A., Tariq, A., & Parveen, R. (2021). Persistence of Semen on five different fabric types in various water environments. *Forensic Science International*, 327, 110944.
- Farooq, S., Nabi, A. G., Mateen, R. M., Tariq, A., Hussain, M., & Parveen, R. (2021). Covid-19 and early release of prisoners: Implications and future perspective. *Forensic Science Review*, 99-100.
- Perveen, R., Shahid, A. A., & Ahmad, J. (2020). Forensic and phylogenetic characterization of 15 autosomal STRs in Hazara population of Pakistan. *Legal Medicine*, 47, 101786.
- Perveen, R., Shahid, A. A., Shafique, M., Shehzad, 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.
- Z Batool, R Perveen, N Sheikh, AA Khan... 2018.Genetic analysis of 15 autosomal STRs in Yousaf Zai population of Pakistan- *International journal of Legal Medicine*.
- M.A Bhinder, M.Y Zahoor<sup>3</sup>, H Sadia<sup>2</sup>, M. Qasim<sup>4</sup>, R Perveen, G. M Anjum<sup>5</sup>...2018 SE33 locus as a reliable genetic marker for forensic DNA analysis systems, *Turkish Journal of Medical Sciences*doi:10.3906/sag-1801-21.
- AA Khan, Perveen R, N Sheikh, BHA Abbasi 2018. Genetic polymorphism of 15 autosomal short tandem repeats in Baloch population of Pakistan. *International Journal of Legal Medicine*.
- Perveen R, Shahid AA, 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
- 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 AmpF $\Phi$ STR Identifiler<sup>®</sup> Plus Kit. *Advancements in Life Sciences*, 3(2), 59-62.
- Shafique M, Shahzad MS, Rahman Z, Shan MA, Perveen R, Shahzad M, Hussain M, Shahid AA, Husnain T. 2016. Development of new pcr multiplex system by the simultaneous detection of 10 ministsr, se33, penta e, penta d, and four y-strs. *International journal of legal medicine*. 130(6):1409-1419.
- Perveen R 1, \* Ahmad Ali Shahid, Muhammad Shafique, Muhammad Idrees, Tayyab Husnain; Genetic Signatures of Y chromosome STRs in Sindhi Population of Pakistan (proceedings of YHRD-Haploid Markers 2016 update on DNA variation Berlin, Germany, May 20-21, 2016. p-A24).

- 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*, 1-2.
- Shafique, M., Hussain, M., Shan, M. A., Shahzad, M., Hussain, S., Hussain, N., Perveen, R & Iqbal, M. (2015). Genetic Diversity of 15 autosomal STR loci in the population of Southern Punjab Pakistan. *Forensic Science International: Genetics*.
- 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.
- Shafique, M., Shahzad, M. S., Perveen, U., Perveen, R., Ali, A., Hussain, M.... & Husnain, T. (2015). Allele frequency distribution of 10 MiniSTRs in the Pashtun population of Pakistan. *International journal of legal medicine*, 129(3), 467-468.
- Perveen, R., Rahman, Z., Shahzad, M. S., Israr, M., Shafique, M., Shan, M. A., & Husnain, T. (2014). Y-STR haplotype diversity in Punjabi population of Pakistan. *Forensic Science International: Genetics*, 9, e20-e21

## CONFERENCES/ SEMINARS/ WORKSHOPS

- Attended an international Seminar on Advancing justice through DNA technology, Indianapolis, Indiana, USA 04/08/2006.
- Attended a 17 international symposiums on Human identification, Nashville, TN, USA 12/09/2006 -17/09/2006
- Participated in a Workshop on Advanced topics in statistics, Nashville, TN, USA 09/10/2006
- Organized a Workshop on Crime scene search and modern forensic techniques for crime investigation, CEMB University of the Punjab, Lahore, Pakistan 18/01/2007 -19/01/2007
- Organized a Workshop on Crime scene search and modern forensic techniques for crime investigation, CEMB University of the Punjab, Lahore, Pakistan 18/07/2007 -19/07/2007
- Organized a Workshop on Crime scene search and modern forensic techniques for crime investigation, CEMB University of the Punjab, Lahore, Pakistan 21/11/2007.
- Organized a Workshop on Crime scene search and modern forensic techniques for crime investigation, CEMB University of the Punjab, Lahore, Pakistan 24/03/2008-25/03/2008
- Participated in a Workshop on Quality management consultants, CEMB University of the Punjab, Lahore, Pakistan 12/03/2009.
- Participated in a Workshop on Next Generation Sequencing, Institute of Agricultural Science University of the Punjab Lahore 04/12/2015 - 05/12/2015.
- Attended a Seminar on Nucleic Acid Technology, CEMB University of the Punjab, Lahore, Pakistan 01/09/2016.
- Attended a Seminar on Lungs and Bronchial Diseases, CEMB University of the Punjab, Lahore, Pakistan 17/11/2016.
- Organized a Symposiums on DNA in Crime Investigation University of the Punjab, Lahore, and Pakistan 05/04/2018.
- Organized a Seminar on Bio-safety Training for Young Researcher, CEMB University of the Punjab, Lahore, Pakistan 29/11/2018.
- Attended a Conference of Web of Science, CEMB University of the Punjab, Lahore, Pakistan 11/03/2019.
- Attended an international Conference on Recent Innovations in Molecular Sciences, University of the Punjab, Lahore, Pakistan 06/11/2019 - 08/11/2019.