

CURRICULUM VITAE



DR. NAZIM HUSSAIN

Assistant Professor

Specialty

Molecular diagnostics and Forensic DNA Typing
Centre for Applied Molecular Biology
University of the Punjab Lahore

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ACADEMIC QUALIFICATION

- | | |
|------|---|
| 2017 | Ph.D. (Biochemistry & Molecular Biology)
Xian Jiaotong Medical University, Xian, Shaanxi, China
Thesis Title: Downregulation of miR-10a-5p in synoviocytes function contributes to TBX5 controlled joint inflammation in RA |
| 2006 | M.Phil. (Bio-Chemistry) University of Agriculture, Faisalabad |
| 2004 | M.Sc. (Bio-Chemistry) University of Agriculture, Faisalabad |

PROFESSIONAL POSITIONS:

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| 2017- Present | Assistant Professor
Centre for Applied Molecular Biology (CAMB), University of the Punjab,
Lahore, Pakistan |
| 2008 – 2017 | Research Officer/Forensic Scientist/Lecture
Centre for Applied Molecular Biology (CAMB), University of the Punjab,
Lahore, Pakistan |

ACHIEVEMENTS:

Total Impact Factor: 27.8

Services: Solved more than 500 forensic DNA cases (Theft, Rape, DBI, Sodomy, paternity, etc.) Received from all over the Pakistan and presented in court for many times

Training: Arranged Forensic DNA workshops and hand on training for Medico-legal Doctors, Judiciary personals, and police officials

Academics: Revised & Prepared Forensic Science courses for M-Phil and PhD Students at CAMB, PU, Lahore

Teaching MPhil and Ph.D. courses at CAMB

Heading Molecular diagnostics and virology Research Group at CAMB

STUDENTS SUPERVISION

Ph.D. students: Supervising two Ph.D. students

M.Phil. students: three M.Phil students

PUBLICATIONS IN IMPACT FACTOR JOURNALS

2015:

- 1) Shafique, M., Hussain, M., Shan, M. A., Shahzad, M., Hussain, S., & **Hussain, N.**, et al. (2015). Genetic diversity of 15 autosomal str loci in the population of southern Punjab Pakistan. *Forensic Science International Genetics*, 19(2). (IF-4.604)

2016:

- 2) Wenhua Zhu, Jing Xu, Congshan Jiang, BoWang, Manman Geng, **Nazim Hussain**, Ning Gao, Yan Han, Dongmin Li, Xi Lan, Qilan Ning, Fujun Zhang, Rikard Holmdahl, Liesu Meng, Shemin Lu. (2016). Pristane induces autophagy in macrophages, promoting a stat1-irf1-tlr3 pathway and arthritis. *Clinical Immunology*, 175, 56. (IF-3.382)

2017:

- 3) Xu J, Zhu W, Guo Y, Jiang C, **Hussain N**, Meng L, Lu S (2017). Construction of conveniently screening plko.1-trc vector tagged with turbogfp. *Applied Biochemistry & Biotechnology*, 181(2), 1-11. (IF-1.429)
- 4) **Nazim Hussain**, Wenhua Zhu, Congshan Jiang, Jing Xu Xiaoying Wu, Manman Geng, Safdar Hussain, Yongsong Cai, Ke Xu, Peng Xu, Yan Han, Jian Sun, Liesu Meng,

Shemin Lu (2017).Down-regulation of miR-10a-5p in synoviocytes contributes to TBX5-controlled joint inflammation, J. Cell. Mol. Med. Vol XX, No X, 2017 pp. 1-10. (IF-4.5)

2018:

- 5) Muhammad Shahid Riaz Rajokaa, Mingliang Jina, Zhao Haobina, Qi Lia, Dongyan Shaoa, Chunmei Jiang, Qingsheng Huang, Hui Yang, Junling Shia, Nazim Hussain. Functional characterization and biotechnological potential of the exopolysaccharide produced by *Lactobacillus rhamnosus* strains isolated from human breast milk. LWT - Food Science and Technology 89 (2018) 638–647 (IF-3.27)
- 6) **Hussain, N**, Zhu, W., Jiang, C., Xu, J., Geng, M., & Wu, X., et al. (2018). Down-regulation of mir-10a-5p promotes proliferation and restricts apoptosis via targeting t-box transcription factor 5 in inflamed synoviocytes. *Bioscience Reports*, 38(2). (IF-2.87)
- 7) Muhammad Shahid Riaz Rajoka, Haobin Zhao, Ziyang Lian, Na Li, **Nazim Hussain**, Dongyan Shao, Mingliang Jin, Qi Li and Junling Shi (2018). Anticancer potential against cervix cancer (HeLa) cell line of probiotic *Lactobacillus casei* and *Lactobacillus paracasei* strains isolated from human breast milk, a journal of food and function (IF-3.247).
- 8) Safdar Hussain | Mengyao Sun | Zixin Min | Yuanxu Guo | Jing Xu | Nosheen Mushtaq | **Nazim Hussain** | Fujun Zhang | Yan Han | Peng Xu | Jian Sun | Shemin Lu. Down-regulated in OA cartilage, SFMBT2 contributes to NF- κ B- mediated ECM degradation. J Cell Mol Med. 2018;00:1–6. <https://doi.org/10.1111/jcmm.13826>.(IF-4.5)

FOREIGN training:

A six-month training course on Forensic DNA analysis at Strand Analytical Laboratories Indianapolis (USA)

WORKSHOP ATTENDED/LECTURES DELIVERED:

- Arranged one-day symposium on DNA in crime scene investigation, University of the Punjab Lahore, April 05, 2018.
- Attended National forensic science conference at Marriott hotel Islamabad (Feb15-16, 2018).
- Certificate of acknowledgment was awarded on winning 1st position in an oral presentation in International Symposium on Advances in Molecular Biology of Plants and Health Sciences held on 221-23 November 2017 at National Centre of Excellence in Molecular Biology, University of the Punjab Lahore.
- A 10th 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, Lahore, Pakistan. (March 24-25 2008).

- An 8th 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, Lahore, Pakistan. (July 18-19. 2007).
- 18^h International Symposium on Human Identification held October 01-04, 2007 sponsored by Promega Corporation at Hollywood, California, USA
- A workshop on Advanced Topics in Statistics October 9, 2006, sponsored by Promega Corporation at Nashville, Tennessee, USA.
- A seminar on Population and Statistical Methodology used in the Field of Human Identification at Strand Analytical Laboratories, Indianapolis, Indiana, USA June 19, 2006.
- A seventh 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, Lahore, Pakistan. (January, 06-07. 2006).
- A sixth 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, Lahore, Pakistan. (January, 06-07. 2006)

BRIEF INTRODUCTION:

Dr. Nazim Hussain joined the Center for Applied Molecular Biology (CAMB) PU, Lahore in 2006 as a forensic scientist and after preliminary training at CAMB went to Indianapolis USA for hands-on training in evidence examination, serology procedures, DNA extraction, Real-time PCR and, DNA Short Tandem Repeat (STR) analysis using ABI 310 Genetic Analyzer. He solved more than 500 criminal cases including parentage, theft, rape, murder, sodomy, robbery, mass disaster, and dead body identification at CAMB. Meanwhile, more than a dozen, symposium, and hands-on training workshops were arranged for Medico legal Doctors, Judiciary personals, and police officials. Later he joined the department of biochemistry and molecular biology at Xian Jiaotong University Xian China for his Doctoral programme. During his Ph.D. at Xian Jiaotong medical university, he found a novel miRNA involved in the regulation of rheumatoid arthritis and proposed its therapeutic importance for the treatment of RA.

Presently, along with teaching M-Phil and Ph.D. students, he intends to investigate the new miRNAs involved in the regulation of autoimmune diseases and hepatitis as well.