



SAFDAR HUSSAIN (PHD)

Assistant Professor

Forensic DNA Laboratory, Centre for Applied Molecular Biology (CAMB), University of the Punjab, Lahore, Pakistan.

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QUALIFICATION

- **PhD (Molecular Biology and Biochemistry), School of Basic Medical Sciences, Xi'an Jiaotong University, P. R. China** **2018**
 - **MPhil (Molecular Biology), Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore, Pakistan.** **2006**
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ACADEMIC POSITIONS

- **Assistant Professor** **Present**
(Incharge, Molecular Genetics Lab, CAMB, University of the Punjab, Lahore)
- **Chairman, Quality Enhancement Cell (QEC)** **Present**
CAMB, University of the Punjab, Lahore
- **BS Course Coordinator** **Present**
CAMB, University of the Punjab, Lahore
- **Ex-Pakistan study Leave for PhD research** **2014-2018**
(Xi'an Jiaotong University, Xi'an, Shaanxi, P. R. China)
- **DNA Technical Manager / Forensic DNA Scientist** **2012-2014**
(Forensic DNA Lab, CAMB, University of the Punjab, Lahore)
- **Quality Assurance Officer / Forensic DNA Scientist** **2007-2012**
(Forensic DNA Lab, CAMB, University of the Punjab, Lahore)
- **Forensic DNA Scientist** **2006-2007**
(Forensic DNA Lab, CAMB, University of the Punjab, Lahore)
- **Forensic DNA Trainee** **May 2006 - Nov 2006**
(Strand Analytical Laboratories, Indianapolis, Indiana, USA)

- **Research Officer**
(Forensic DNA Lab, CAMB, University of the Punjab, Lahore)

Jan. 2006

NATIONAL / INTERNATIONAL TRAININGS AND SCIENTIFIC SYMPOSIA / CONFERENCES ATTENDED

- **Attended the First International Conference on "Recent Innovations in Molecular Sciences" organized by University of the Punjab, Lahore, Pakistan (November 6-8, 2019).**
- **Attended the 45th Silk Road Training Program on "Frontier Development of Medical Science and Technology & Big Data Theory Applications" arranged by Xi'an Jiaotong University, Xi'an Shaanxi, China (November 9-14, 2018).**
- **Organized the Hsien Wu and Ray Wu international symposium on "Metabolism Reprogramming" jointly arranged by Xi'an Jiaotong University and Hsien Wu and Ray Wu team, Xi'an Shaanxi, China (August 11-12, 2017).**
- **Attended the Hsien Wu and Ray Wu international symposium on "Molecular Biology" organized by Hsien Wu and Ray Wu team, at University of Beijing, China, (August 11-12, 2015).**
- **Attended a three day workshop on "Principles of Forensic Toxicology" held at Armed Forces Institute of Pathology, Rawalpindi, Pakistan (January 20-22, 2014).**
- **Organized the 9th Training Workshop on "Crime Scene Search and Modern Forensic Techniques for Crime Investigations" at Center of Excellence in Molecular Biology, Lahore, Pakistan (November 21-22, 2007).**
- **Organized the 8th Training Workshop on "Crime Scene Search and Modern Forensic Techniques for Crime Investigations" jointly arranged by Strand Analytical laboratories, Indianapolis, Indiana, USA and Center of Excellence in Molecular Biology, Lahore, Pakistan (July 18-19, 2007).**
- **Organized the 7th Training Workshop on "Crime Scene Search and Modern Forensic Techniques for Crime Investigations" jointly arranged by Strand Analytical laboratories, Indianapolis, Indiana, USA and Center of Excellence in Molecular Biology, Lahore, Pakistan (December 15-16, 2006).**
- **Attended a six-month training course as a "Forensic DNA trainee" on "DNA Short Tandem Repeat (STR) Analysis using ABI 310 Genetic Analyzer" at Strand Analytical Laboratories, Indianapolis, Indiana, USA (May 15, 2006 - November 10, 2006).**
- **Attended the 17th International Symposium on "Human Identification", Sponsored by Promega Corporation, at Nashville, Tennessee, USA (October 9-12, 2006).**

- **Attended a workshop on “Advance Topics in Statistics” Sponsored by Promega Corporation, at Nashville, Tennessee, USA (October 9, 2006).**
 - **Attended a seminar on “Advancing Justice through DNA Technology National Missing Persons Program” Organized by Strand Analytical Laboratories, Indianapolis, Indiana, USA (August 04, 2006).**
 - **Attended a seminar on “Population and Statistical Methodology used in the Field of Human Identification” Organized by Strand Analytical Laboratories, Indianapolis, Indiana, USA (June 19, 2006).**
 - **Attended the 2006 Technology Tour Sponsored by Promega Corporation, Chicago, Illinois, USA (June 15, 2006).**
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PUBLICATIONS

- [1] **Mengyao S, Hussain S, Yuxiao H, Jidong Y, Zixin M, Xi L, Yuanxu G, Yitong Z, Huang H, Meng F, Yan H, Fujun Z, Wenhua Z, Liesu M, Dongmin L, Jian S and Shemin L. Maintenance of SOX9 stability and ECM homeostasis by selenium-sensitive PRMT5 in cartilage [J] Osteoarthritis and Cartilage, 2019, DOI: 10.1016/j.joca.2019.02.797. (SCI, IF=5.45)**
- [2] **Mushtaq N, Hussain S, Zhang S, Yuan L, Li H, Ullah S, Wang Y and Xu J. Molecular characterization of alterations in the intestinal microbiota of patients with grade 3 hypertension [J] Int J Mol Med, 2019, DOI: 10.3892/ijmm.2019.4235. (SCI, IF=2.78)**
- [3] **Jian S, Zixin M, Zhao W, Hussain S, Yitong Z, Dongxian G, Fujun Z, Yuanxu G, Mengyao S, Huang H, Yan H, Nannan Z, Peng X, Shemin L. T-2 toxin exposure decreases SECISBP2 mediated selenoproteins expression and induces lesions in the epiphyseal plates of DA rats, exacerbated by selenium deficiency [J] Cartilage, 2018. (SCI, IF=2.62)**
- [4] **Zixin M, Yuanxu G, Mengyao S, Hussain S, Dongxian G, Ying Y, Yitong Z, Lisong H, Huang H, Fujun Z, Yan H, Jiawen X, Nannan Z, Jian S, Shemin L. Selenium-sensitive miRNA-181a-5p targeting SECISBP2 regulates selenoproteins expression in cartilage [J] J Cell Mol Med, 2018, DOI: 10.1111/jcmm.13858. (SCI, IF=4.49)**
- [5] **Hussain S, Mengyao S, Zixin M, Yuanxu G, Jing X, Mushtaq N, Lisong H, Huang H, Yitong Z, Ying Y, Hussain N, Fujun Z, Yan H, Peng X, Jian S, Shemin L. Down-regulated in OA cartilage, SFMBT2 contributes to NF-κB mediated ECM degradation [J] J Cell Mol Med, 2018, DOI: 10.1111/jcmm.13826. (SCI, IF=4.49)**
- [6] **Hussain S, Mengyao S, Yuanxu G, Mushtaq N, Yitong Z, Ying Y, Hussain N, Kombo OE, Suleiman A, Sadiq M, Fujun Z, Yan H, Jian S, Shemin L. SFMBT2 positively regulates**

- SOX9 and Chondrocytes proliferation [J] Int J Mol Med, 2018, DOI: 10.3892/ijmm.2018.3894. (SCI, IF=2.78)**
- [7] **Yuanxu G, Zixin M, Congshan J, Wei W, Jidong Y, Peng X, Ke X, Jing X, Mengyao S, Yitong Z, Hussain S, Rui Z, Quancheng W, Yan H, Fujun Z, Wenhua Z, Dongmin L, Liesu M, Jian S, Shemin L. Downregulation of HS6ST2 by miR-23b-3p enhances matrix degradation through p38 MAPK pathway in osteoarthritis [J] Cell Death Dis, 2018, 9(6): 699. (SCI, IF=5.96)**
- [8] **Mushtaq N, Hussain S and Jiru X. Molecular Characterization of Gut Microbiota in Obese and Lean Hypertensive Patients [J] J Bacteriol Parasitol, 2018, 9(5): 345. (IF=2.025)**
- [9] **Mushtaq N, Hussain S, Yuan L, Zhang S, Li H, Ullah S and Jiru X. Gender Based Compositional Fluctuations in Gut Microbiota in Hypertension. [J] Cardiovasc Pharm Open Access, 2018, 7: 248. (IF=1.77)**
- [10] **Hussain N, Wenhua Z, Congshan J, Jing X, Manman G, Xiaoying W, Hussain S, Wang B, Rajoka MSR, Li Y, Tian J, Liesu M, Shemin L. Down-regulation of miR-10a-5p promotes proliferation and restricts apoptosis via targeting T-box transcription factor 5 in inflamed synoviocytes [J] Biosci Rep, 2018, 38(2). (SCI, IF=2.9)**
- [11] **Rakha A, Yu NO, Hwan YL, Hussain S, Waryah AM, Adnan A, Kyoung JS. Discriminating Power of Rapidly Mutating Y-STRs in deep rooted endogamous pedigrees from Sindhi population of Pakistan [J] Legal Med, 2018, DOI: 10.1016/j.legalmed.2018.08.001. (SCI, IF=1.25)**
- [12] **Hussain N, Wenhua Z, Congshan J, Jing X, Xiaoying W, Manman G, Hussain S, Yongsong C, Ke X, Peng X, Yan H, Jian S, Liesu M, Shemin L. Down-regulation of miR-10a-5p in synoviocytes contributes to TBX5-controlled joint inflammation [J] J Cell Mol Med, 2017, 22(1): 241-250. (SCI, IF=4.5)**
- [13] **Rakha A, Yu NO, Kyoung JS, Adnan A, Hussain S, Waryah AM, Hwan YL. Male individualization with Rapidly Mutating Y-STRs in deep rooted endogamous pedigrees from Sindhi population of Pakistan. Conference: HM2016, at Germany. (Conference paper)**
- [14] **Shafique M, Hussain M, Shan MA, Shahzad M, Hussain S, Hussain N, Ehsan F, Perveen R, Iqbal M. Genetic diversity of 15 autosomal STR loci in the population of Southern Punjab Pakistan [J] Forensic Sci Int Genet, 2015, 19:e1-e2. (SCI, IF=3.91)**