Phone 00966532783173
E-mail: ikram.uhs12@gmail.com

MUHAMMAD IKRAM ULLAH

MSc., MPhl., PhD

Employment

Jouf University, Kingdom of Saudi Arabia [September, 2018 till date].
***Assistant Professor**, Clinical Laboratory Sciences*

University of Health Sciences Lahore [January, 2017 to January, 2018].
***Assistant Professor**, Department of Biochemistry*

- Taught Medical Biochemistry, Genetics and Genomics to MPhil and PhD students in Biochemistry and other Basic Medical Sciences.
- Supervised and co-supervised research projects of BS, MPhil and PhD students

University of Health Sciences Lahore [January, 2013 to October, 2013].
Senior Teaching and Research Fellow at Biochemistry

- Teaching to master and M.Phil students
- Research assistance to postgraduate students

University of Health Sciences Lahore [September, 2008 to January, 2013].
Teaching and Research Fellow at Biochemistry

- Teaching to master, M.Phil students and research assistance in the research project of postgraduate student
- Lab management to the Biochemistry Lab

Education

Quaid-i-Azam University, Islamabad, Pakistan
PhD in Biochemistry (October, 2016)

- Research thesis on "**Molecular Genetic Studies in Families with Inherited Neurological, Muscular and Eye Disorders**".

University of Health Sciences, Lahore
M. Phil Biochemistry (June, 2012)

- Research thesis on "**Molecular Genetic Studies in Families with Autosomal Recessive Primary Microcephaly (MCPH) from Punjab**".
- Book Publication: Thesis published as book by LAMBER ACADEMIC PUBLISHING, Germany 2013.

University of Health Sciences, Lahore, Pakistan
M.Sc Medical Technology (September, 2009)

- Research thesis on "**Evaluation of Anti-mycobacterial activity of Garlic (*Allium Sativum*) against Clinical Isolates of MDR Mycobacterium Tuberculosis**".

Sheikh Zayed Post-graduate Medical Institute, University of the Punjab, Lahore, Pakistan
Bachelor of Science in Medical Laboratory Technology (September, 2005)

- Professional courses with training in hospital pathology labs

Scholarships

- Awarded German DAAD Post-doctoral Fellowship 2018 (**Not Attended**)
- Awarded research fellowship (amount; 0.7 million PKR) by International Research Support imitative Program (IRSIP), HEC, Pakistan for 6 months Ph.D. research carried out at Medical School, **University of Exeter, United Kingdom** (93rd in world ranking 2015) from June to November, 2015.
- Awarded Scholarship (total 0.24 million PKR) in M.Sc (MT) from UHS, Lahore, Pakistan which was based on merit selection for the course (2006-2008).

Honors/Awards

- Secured *2nd* position in the final examination of M.Sc Medical Technology in June, 2009.
- Got distinction in Microbiology in the final examination of M.Sc. Medical Technology in June, 2009.

Conferences/ Workshops/ Lectures/ attended

- Participated in various conferences and workshops. Attended seminars and academic lectures.

Postgraduate Supervision

PhD Research Co-Supervisor

- Identification of genetic mutations causing familial oculocutaneous Albinism (OCA) in Pakistani families and elucidation of biochemical mechanisms. ***(Thesis submitted* 2019*)***

MPhil/MSc Research Supervisor

- Identification of mutations in *Tyrosinase* (*TYR*) gene associated with Congenital Oculocutaneous Albinism and an in silico analysis of these mutations. ***(Awarded* 2018*)***

MPhil/MSc Research Co-Supervisor

- Molecular genetic studies in families with autosomal recessive congenital pain insensitivity (CIP) ***(Awarded* 2018*)***

B.Sc. (Hon) Clinical lab/Medical Lab sciences. Research Supervisor

Undergraduate Supervision

- Genetic polymorphism of beta globin cluster (*HBB*) gene in patients with Sickle Cell Disease from Al-Ahsa region of Saudi Arabia (***Dissertation Submitted* 2019**)
- Genetic mapping of *TULP1* gene associated with non- syndromic recessive Retinitis pigmentosa. ***(Awarded* 2018*)***
- Genetic studies of *ABCA4* gene in families with autosomal recessive Retinitis pigmentosa. ***(Awarded* 2018*)***
- Genetic Association studies of angiotensinogen (*AGT*) in patients with dilated cardiomyopathy (DCMP). ***(Awarded* 2018*)***

B.Sc. (Hon) MLT Research Co-Supervisor

- Homozygosity mapping of *FYCO1* gene in families with congenital cataract. ***(Awarded* 2018*)***
- Genetic homozygosity mapping of *ASPM* and *WDR62* genes in families with autosomal recessive primary microcephaly. ***(Awarded* 2018*)***

Research Grants Acquired

- **Molecular genetic studies in Pakistani families with inherited oculocutaneous albinism (OCA). (PI)**
  Grant of 0.495 million PKR from HEC (Completed, September, 2018).
- **Biochemical and Molecular Analysis of Oculocutaneous Albinism in families from Pakistan.**
- Grant of 0.581 million PKR from Pakistan Science Foundation. **(2018-19). (Co-PI)**
- **Association of Trace elements (Zinc, copper, iron and selenium) and genetic polymorphism of TNF-α and VEGF genes in metabolic syndrome patient of Saudi Arabia. (PI)**
  Grant of 26,000 SAR from Jouf University (in progress, May, 2019).
- **Assessment of Adiponection serum levels and gene polymorphism in type 2 diabetes patients of Saudi Arabia. (Co-PI)**
  Grant of 48,000 SAR from Jouf University (in progress, May, 2019).

Teaching Experience

- Taught the courses like Clinical/Medical Biochemistry, Molecular Biology/Human Genetics to M.Phil and B.Sc. (Hon) students
- Previously taught Biochemical and Molecular Biology techniques o graduate students
- Previously taught Medical Microbiology to M.Sc. MLT students

Research Publications

Total Impact Factor: 31.13 (2018 list)

1. Ahmad S, Ghaznavi S, Rasheed N, **Ullah MI**. **Comparison of serum neutrophil gelatinase associated lipocalin (NGAL) levels in pre-eclamptic and normotensive pregnant women**. RMJ. 2020; 45(1): 154-157.
2. Nawaz, Y., Ghazanvi, S., Rasheed, N., Jahan, S., **Ullah, MI**. **Association of serum resistin level and resistin (RETN) gene (-420 C>G) polymorphism in Pakistani women with polycystic ovarian syndrome.** Turk J Endocrinol Metab 2020;24:16-22
3. Nargis Haider Kakar, Yasmeen Lashari, Zahid Ali, Mohammad Tahir Kakar, Aurangzeb Kamal, Muhammad Bilal, **Muhammad Ikram Ullah**, Muhammad Atif. **Status of Serum Vitamin D Levels in Pregnant women from Balochistan**. Pakistan Journal of Medical and Health Sciences. 2019.13(4,):1190-1193.
4. Albegali, A.A., Shahzad, M., Mahmood, S. **Ullah MI**. Sajjad O, Amar A. (2019)**. Genetic polymorphism of eNOS (G894T) gene in insulin resistance in type 2 diabetes patients of Pakistani population.** https://doi.org/10.1007/s13410-019-00775-6 (**SCOPUS**)
5. Sidra Shahid, Sumbla Ghaznavi, Nadia Rasheed, Syed Mohsin Razai, **Muhammad Ikram Ullah**. 2019. **Lack of genetic association between SNP rs7903146 (IVS3C>T) of Transcription Factor 7 Like 2 (*TCF7L2*) gene in type 2 diabetes patients from Pakistani population.** PJMHS. Volume 13 (3):819-822. (**SCOPUS**)
6. Sarmad Mehmood, Rubina Dad, Arsalan Ahmad, Muhammad Ikram Ullah,

Peter John, Amjad Ali, Christian Hubner, Aisha mohyuddin, Muhammad Jawad Hassan, (2019). **Structural and functional annotation of PR/SET Domain (PRDM) protein family: In-silico study elaborating role of PRDM12 mutation in congenital insensitivity to pain Short title: In silico analysis of PRDM proteins involved in neurological disorders.** (**Accepted in Computational Biology**)

7. Albegali, A.A., Shahzad, M., Mahmood, S. **Ullah MI**. (2019)**. Genetic association of insulin receptor substrate-1 (IRS-1, rs1801278) gene with insulin resistant of type 2 diabetes mellitus in a Pakistani population**. Mol Biol Rep. https://doi.org/10.1007/s11033- 019-05041-w (**IF 2.01**)
8. Sarmad Mehmood, Gaurav V.Harlalk, Rubina Dad, Barry A.Chioz, **Muhammad I.Ullah**, Arsalan Ahmad, Andrew H.Crosby, Emma L.Baple, Muhammad J.Hassan. **In Silico analysis of SIGMAR1 gene causing distal hereditary motor neuropathy in a Pakistani family**. Gen Rep. 2019. Volume 16, September 2019, 100445.
9. Albajali AA, Shehzad M, Ullah MI, Mahmood S, Rashid M. Association of genetic polymorphism of PC-1 gene (rs1044498 Lys121Gln) with insulin resistant type 2 diabetes mellitus in Punjabi Population of Pakistan. Mol Genet Genomic Med. 2019 Aug;7(8):e775. (IF 2.47)
10. Shakil M, Harlalka GV, Ali S, Lin S, D'Atri I, Hussain S, Nasir A, Shahzad MA, Ullah MI, Self JE, Baple EL, Crosby AH, Mahmood S.. Tyrosinase (TYR) gene sequencing and literature review reveals recurrent mutations and multiple population founder gene mutations as causative of oculocutaneous albinism (OCA) in Pakistani families. Eye (Lond). 2019 Aug;33(8):1339-1346. (IF 2.39)
11. Muhammad Ikram Ullah, Nazish Mehmood Aisha, Muhammad Shakil, Tayyaba Samreen, Asma Idrees, , Shabbir Hussain4, Irfan Shaukat. Genetic association of AGT polymorphism in patients with Dilated Cardiomyopathy from Punjabi population of Pakistan. PJMHS. Volume 13 (1):157-160.
12. Nasir Siddique, Muhammad Shakil, Seemab Anwar, Nimra Mehmood, Muhammad Ikram Ullah. Comparison of mean birth weight of neonates born to females having gestational diabetes on metformin versus insulin. Journal of Postgraduate Medical Institute. 2018; 32(3):246-250. (SCOPUS)
13. Sobia Rizwan, Sumbla Ghazanvi, Nadia Rasheed, Muhammad Ikram Ullah. Association Of FTO Common RS9939609 Polymorphism With Obesity And Polycystic Ovarian Syndrome In Pakistani Women. Med Res Biol Stud. 2018; 1: 101.
14. Walker S, Dad R, Thiruvahindrapuram B, Ullah MI, Ahmad A, Hassan MJ, Scherer SW, Minassian BA. Chorea-acanthocytosis: Homozygous 1-kb deletion in VPS13A detected by whole-genome sequencing. Neurol Genet. 2018 May 18;4(3):e242. PMID: 29845114
15. Arshad MW, Harlalka GV, Lin S, D'Atri I, Mehmood S, Shakil M, Hassan MJ, Chioza BA, Self JE, Ennis S, O'Gorman L, Norman C, Aman T, Ali SS, Kaul H, Baple EL, Crosby AH, Ullah MI, Shabbir MI, Mutations in TYR and OCA2 associated with oculocutaneous albinism in Pakistani families. Meta Gene. 2018; 17: 48-55. (SCOPUS)
16. Ullah MI, Nasir A, Ahmad A, Harlalka GV, Ahmad W, Hassan MJ, Baple EL, Crosby AH, Chioza BA. Identification of novel L2HGDH mutation in a large consanguineous Pakistani family- a case report. 2018. BMC Med Genet. (Accepted). (IF 1.913) PMID: 29458334
17. Ullah MI, Ahmad A, Zarkovic M, Shah SS, Nasir A, Mahmood S, Ahmad W, Hubner CA, Hassan MJ. Novel duplication mutation of the DYSF gene in a Pakistani family with Miyoshi Myopathy. Saudi Med J. 2017 Dec;38(12):1190-1195. (IF 1.055) PMID: 29209666
18. Rubina Dad, Muhammad Ikram Ullah, Amjad Ali, Muhammad Jawad Hassan. 2017. Identification of Biological Functions of risk loci associated with complex epilepsy: An in silico approach for data analysis. Int. J. Biosci. 10(3):388-398. (ISI indexing, SCOPUS)
19. Sattar A, Hussain S, Ullah MI, Mahmood S, Mohsin S. 2017. Screening of Intron 1 Inversion of Factor VIII gene in 130 patients with severe Haemophilia A from Pakistani cohort. Turk J Haematol. 34(3):278-279. (IF 0.650) PMID: 28294101
20. Ullah Z, Ullah MI, Hussain S, Kaul H, Lone KP. 2017. Determination of Serum Trace Elements (Zn, Cu, and Fe) in Pakistani Patients with Rheumatoid

Arthritis. Biol Trace Elem Res. 175(1):10-16 (IF 2.399) PMID: 27239678.

21. IrfanUllah, Abdul Nasir, Sarmad Mehmood, Sohail Ahmed, Muhammad Ikram Ullah, Asmat Ullah, Abdul Aziz, Syed Irfan Raza, Khadim, Saad Ullah Khan, Muhammad Jawad Hassan, Wasim Ahmad. 2017. Identification and in silico analysis of GALNS mutations causing Morquio A syndrome in eight consanguineous families. Turkish J Bio. 41(3): 458-468. (IF 0.651) (ISI indexing, SCOPUS)
22. Ahmad A, Dad R, Ullah MI, Baig TA, Ahmad IN, Nasir A, Hübner CA, Hassan MJ. 2017. Clinical and genetic studies in patients with Lafora disease from Pakistan. J Neuro Scien. 373; 263-267. (IF 2.448) PMID: 28131202
23. Sawal HA, Ullah MI, Ahmad A, Nasir A, Amar A, Khan EA, Rashid M, Mahmood S, John P, Ahmad W, Hübner CA, Hassan MJ. 2016. Homozygous mutations in NTRK1 gene underlie congenital insensitivity to pain with anhidrosis in Pakistani families. Neurology Asia. 21(2): 129-136.(IF 0.200) (ISI indexing, SCOPUS)
24. Shakil M, Ullah MI, Hussain S, Firasat S, Mahmood S, Kaul H. 2016. Homozygosity mapping of a consanguineous Pakistani family affected with oculocutaneous albinism to Tyrosinase gene. Int J Ophthalmol. 9(5):794-796. (IF 1.166) PMID: 27275442
25. Kaul H, Suman M, Khan Z, Ullah MI, Ashfaq UA, Idrees S. 2016. Missense mutation in SLC4A11 in two Pakistani families affected with congenital hereditary endothelial dystrophy (CHED2). Clin Exp Optom. 99(1):73-77. (IF 1.335) PMID: 26286922
26. Aisha NM, Haroon J, Hussain S, Tahir CM, Ikramullah M, Rahim H, Kishwar N, Younis S, Hassan MJ and Javed Q. 2016. Association between tumour necrosis-α gene polymorphisms and acne vulgaris in a Pakistani population. Clin Exp Dermatol.41 (3):297-301. (IF 1.484) PMID: 26373312
27. Ullah MI, Ahmad A, Raza SI, Amar A, Ali A, Bhatti A, John P, Mohyuddin A, Ahmad W, Hassan MJ. 2015. In silico analysis of SIGMAR1 variant (rs4879809) segregating in a consanguineous Pakistani family showing amyotrophic lateral sclerosis without fronto- temporal lobar dementia. Neurogenetics. 16(4):299-306. (IF 3.090) PMID: 26205306
28. Rubab Z, Amin H, Abbas K, Hussain S, Ullah MI, Mohsin S. 2015. Serum hepcidin levels in patients with end-stage renal disease on hemodialysis. Saudi J Kidney Dis Transpl. 26(1):19-25. PMID: 25579711
29. Ayesha Pervez, Fozan Ahmed, Nazish Mehmood, Salman Idrees, Muhammad Ikram Ullah, Mohammad Zamir Ahmad, Aftab Ahmed, Muhammad Jawad Hassan. 2015. Detection of DNA damage in lead (Pb) exposed city traffic wardens in Pakistan. Afr J Biochem Res. 9(4): 61-66.
30. Nasir Siddique, Muhammad Shakil, Muhammad Ikram Ullah. 2015. Detection of Frequency of Hepatitis C patients with Fatty Liver and impact of Interferon on Fatty Liver improvement. Pak. J. Med. Health. Sci. 9(2):744-747. (SCOPUS)
31. Nisa FU, Mumtaz A, Ullah MI, Atif M and Sami W. 2014. Determination of serum zinc and magnesium levels in patients with hypothyroidism. Trace Elements and Electrolytes. 31(2):43-47. (IF 0.381) (ISI indexing, SCOPUS)
32. Syed Khizar Abbas Rizvi, Shahida Mohsin, Tahir Saeed, Saeed Ahmad, Shabbir Hussain, Muhammad Ikram Ullah.2013. Frequency of Clopidogrel Resistance in Patients of Ischemic Heart Disease; European Journal of Cardiovascular Medicine. 3(2)3:176-180.
33. Hannan A, Asghar S, Naeem T, Ikram Ullah M, Ahmed I, Aneela S, Hussain S.2013. Antibacterial effect of mango (Mangifera indica Linn.) leaf extract against antibiotic sensitive and multi-drug resistant Salmonella typhi. Pak. J. Pharm. Sci. 26: 715-719. (IF 0.804) PMID: 23811447
34. Mohsin Sh, Jaffar J, Hussain Sh, Suhail Sh, Ikram Ullah M, Amjad S. 2012. Detection of Factor VIII inhibitors in Hemophilia A patients. Iranian. J. blood. Cancer. 4(4): 163-168.
35. Amin H, Mohsin S, Aslam M, Hussain S, Saeed T, Ullah MI, Sami W. 2012.Coagulation Factors and Anti-thrombin Levels in Young and Elderly Subjects in Pakistani Population. Blood. Coagul. Fibrinolysis. 23 (8):745-50. (IF 1.119) PMID: 23135380
36. Hannan A, Rauf K, Ikram Ullah M, Naeem T, Raja M, Qamar MU, Tahir R and Saba M. 2012. Inhibitory effect of aqueous garlic (Allium sativum) extract against clinical isolates of Salmonella typhi. African Journal of Microbiology Research. 6(21): 4475-4480.

37. Hannan A, Ikram Ullah M, Usman M, Hussain S, Absar M and Javed
38. K. 2011. Anti-mycobacterial activity of garlic (Allium sativum) against multi-drug resistant and non-multi-drug resistant mycobacterium tuberculosis. Pak. J. Pharm. Sci. 24 (1):81-85. (IF 0.804) PMID: 21190924
39. Albajali A. A, Nagi A. H, Shahzad M, Ikram Ullah M and Hussain S. 2011. Effect of Allium sativum l. on pancreatic β cells in comparison to Nigella sativa l. in streptozotocin induced diabetic rats. Journal of Medicinal Plants Research. 5(24):5779–5784.
40. Mohsin S, Ilyas A, Dar LR, Rasool G, Hussain S, and Ikram Ullah M. 2011. Levels of Anti-Phospholipid Antibodies in Females with Recurrent Abortions. Ann. Pak. Inst. Med. Sci. 7(3): 156-159.
41. Hussain S, Afzal N, Javed K, Ullah MI, Ahmad T, Zaman SU. 2010. Level of interferon gamma in the blood of tuberculosis patients. Iran. J. Immunol. 7 (4): 240-246. (IF 0.787) PMID: 21189447
42. Afzal N, Javed K, Saleem-uz-Zaman, Mumtaz A, Hussain S, Tahir R, Ullah I, Akram M. 2010. Percentage of CD4+ and CD8+ T- lymphocytes in blood of tuberculosis patients. JAMC. 22(4): 183-187. PMID: 22455293 (SCOPUS)
43. Ali A, Ikram Ullah M, Asif S, Abrar M, Jamal A and Jaffri S.A. 2010. Evaluation of lipopetide (Surfactin) Production by Bacillus subtilis. Biomedica. 26(1): 34-38.
44. Hannan A, **Ikram Ullah M**, Qayum A, Shah KA, Arshad U and Hussain S. **2009**. Evaluation of anti-mycobacterial activity of garlic (*Allium sativum*) against clinical isolates of non-MDR and MDR *Mycobacterium tuberculosis*. (Abstract). Planta. Med; Suppl 75: 1073. (**IF 2.494**)

In Process

1. Ilaria D'Atri1, Siying Lin1, Muhammad Shakil2, Shamim Saleha3, Jahangir Khan4, Abida Akbar5, Muhammad Waqar Arshad6, Xiaodong Jiao7,8, Amer Riazuddin7,8, Yan Li9, Maria Chornobai9, Venkata Pulla Vendra9, Zhiwei Ma9, Xun Wang9, Huan Hu9, Jiali Li9, Nadav Shoshony9, **Muhammad Ikram Ullah**10, Muhammad Jawad Assan11, Saqib Mahmood12, Gaurav V. Harlalka1, Sheikh Amer Riazuddin13,14,15, Jay Self16, Emma L. Baple1,#, J. Fielding Hejtmancik 9,#, Andrew H. Crosby. **Genetic spectrum of inherited retinal dystrophies in Pakistan. (Submitted in Human Molecular Genetics).**

Computer Skills

- Command in MS office and use of Internet.
- Ability to use tools of Bio-Informatics and to analyze the DNA/Protein related data by using different softwares (Bio- edit, Clustawl W, BLAST N & P, UCSC, Ensemble, Primer3, SIFT, Polyphen2, Mutation Taster, NN Splice and ESEfinder).
- Ability to work with next generation data i.e. Whole exome sequencing data.

References

Dr. Muhammad Jawad Hassan, Ph.D.
Assistant Professor, Healthcare Biotechnology,
National University of Medical Sciences (NUMS), Pakistan
E-mail: hassanraja12@hotmail.com
TEL: +923335690522

Prof. Wasim Ahmad, Ph.D.
Professor of Biochemistry
Quaid i Azam University, Pakistan
E-mail: wahmad@qau.edu.pk

Prof. Andrew H. Crosby, Ph.D.
Professor of Human Genetics
Medical Research Centre Level 4, Medical School
University of Exeter, EX2 5DW, United Kingdom
E-mail: A.H.Crosby@exeter.ac.uk

	TEL: +44 (0)1392 408302 **Dr. Saqib Mahmood,** M.B.B.S, Ph.D. Professor Human Genetics and Molecular Biology University of Health Sciences, Lahore, Pakistan E-mail: sqb_medgen@yahoo.com TEL: +923004524556