

PAKEEZA ARZOO SHAIQ

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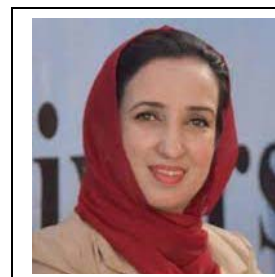
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ACADEMIC QUALIFICATION

DEGREE	YEAR	INSTITUTION	GRADE/DIVISION
Ph.D. (BCH)	2010	PMAS-AAUR	4.00/4.00
M.Sc (BCH)	2004	PMAS-AAUR	3.47/4.00
B.Sc	2001	The University of Punjab	1 st Div
HSSC	1999	FBISE, Islamabad	1 st Div
SSC	1997	FBISE, Islamabad	1 st Div

THESES

Ph. D. Thesis: **“Genetic basis of skin disorders in Pakistani population”.**

M.Sc. Thesis: **“Role of water stress like conditions during somatic embryogenesis in *in-vitro* callus cultures”.**

EMPLOYMENT EXPERIENCE

1. Currently serving as Assistant Professor (BPS-19), University Institute of Biochemistry and Biotechnology, PMAS-AAUR, Pakistan from June, 2014
2. Served as Lecturer (BPS-18), Department of Biochemistry, PMAS-AAUR from June, 2010- June, 2014

COURSES TAUGHT

S. No.	Course title	Credit hours
1	Introductory Biochemistry	3(2-2)
2	Molecular Biology	3(2-2)
3	Principles of Genetics	3(2-2)
4	Genetic Engineering	3(2-2)
5	Molecular Basis of Human Genetic Diseases	3(3-0)
6	Biotechnology	3(2-2)
7	Epidemiology of infectious diseases	3(3-0)

DISTINCTIONS

1. Trainee Fellow at Department of Immunology and Genetics, Rudbeck laboratories, Uppsala University, Uppsala, Sweden (2012).
2. Visiting Research Scholar at Psoriasis Genetics Laboratory, Department of Dermatology, University of Michigan, USA (2009-2010).
3. Got IRSIP (International Research Initiative program) fellowship for 6 months from HEC, Pakistan.
4. Got DEBRA scholarship for mutation analyses of EB patients at Salzburg, Austria (2009).
5. Got HEC Indigenous Scholarship for Ph. D.
6. Got Merit Scholarship (Teacher Assistantship) during Ph.D. course work.

PROFESSIONAL TRAINING

1. Centre of Excellence in Molecular Biology (CEMB) training workshop on “Designing CRISPR/Cas construct, 7th of December, 2022
2. British Council & HEC training workshop on “Capacity building course for researchers”, 2nd to 5th August, 2022, Marriott Hotel, Islamabad, Pakistan.
3. 2nd Scientific training on “Genetics related to health and fertility for profitable livestock production” by National centre for livestock breeding, genetics and genomics (NCLBG&G), PMAS-AAUR, Pakistan, 2022
4. Training workshop on project management (procurement, treasurer and Audit department), 24th to 27th of September, 2019, PPMI, H-8 Islamabad, Pakistan.
5. 22nd Sustainable development conference, 5th Dec, 2019, Margala Hotel, Islamabad, Pakistan.
6. Conference on “Advancements in Biotechnology and Bio computing”, 7-9th February, 2019, Islamic International University, Islamabad.
7. Digital library training workshop , 5th March, 2019, PMAS-AAUR, Rawalpindi, Pakistan.
8. Noble week dialogue ‘The Genetic Revolution and its Impact on Society’, 9th of Dec, 2012 at Stockholm City Conference Center, Stockholms, Sweden.
9. Lectures of Noble laureates, Prof. Shinya Yamanaka “*Induction of Pluripotency by Defined Factors*” & Sir John B. Gurdon “*The egg and the nucleus: a battle for supremacy*” on 13th of Dec, 2012 at The Svedbergsalen, BMC, Uppsala University, Sweden
10. Rudbeck Seminar on “Accurate whole genome sequencing from 10 human cells as the ultimate genetic test” on 6th of December, 2012, Rudbeck laboratories, Uppsala University, Sweden
11. “*A conference on the molecules of life*” 5-6th of September, 2012 at Uppsala University
12. Training workshop on “Next generation sequencing: Biomedical and clinical implications” on 25th of October, 2012 at Rudbecksalen, Rudbeck laboratory, Uppsala

13. COMSTECH thematic workshop on “ Biotechnology for economic Development” 16-18 Feb, 2011 held at Pakistan Science Foundation, Islamabad, Pakistan.
14. Hands on training workshop on “Protein Modelling and Docking” held at Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi, Pakistan.
15. Hands on training workshop on “Biomolecular Separation Techniques” held at Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi, Pakistan.
16. Hands-on training workshop on “SNP Genotyping: Strategies & Applications in Human Genetics” hosted at PMAS AAUR funded by Higher Education Commission Pakistan. 20-22nd April 2011

MAJOR COMMITTEE ASSIGNMENTS

1. Physical stock verifications at PMAS-AAUR
2. Self assessment reports of UIBB, PMAS-AAUR
3. Stage secretary, Silver jubilee celebrations, PMAS-AAUR
4. Stage secretary, Dukhtaran-e-Pakistan, PMAS-AAUR
5. Stage secretary, Convocation 2021, PMAS-AAUR
6. Moderator, Technical session of UIBB at Silver Jubilee celebrations, PMAS-AAUR
7. Outcome based education (OBE), UIBB, PMAS-AAUR
8. Admission committee, UIBB, PMAS-AAUR

MANAGEMENT ROLE

1. Established and running Molecular Genetics lab at UIBB, PMAS-AAUR

PUBLICATIONS (Total Impact=55.228+40.393=95.621)

Human Genetics

1. **Pakeeza A. Shaiq**, Alfred Klausegger, Johann W. Bauer, Maleeha Azam, Ghazala K. Raja, Raheel Qamar (2011). Compound heterozygous mutations p.Q1530X and 6103delG in *COL7A1* causing recessive dystrophic epidermolysis bullosa in a Pakistani family. *J. Dermatol.* 39(5):472-4. doi: [10.1111/j.1346-8138.2011.01363.x](https://doi.org/10.1111/j.1346-8138.2011.01363.x). Impact factor=4.005
2. **Pakeeza A. Shaiq**, Alfred Klausegger, Fawad Muzaffar, Johann W. Bauer, Muhammad I. Khan, Azra Khanum, Raheel Qamar, Ghazala K. Raja (2012). Founder mutation c.676insC in three unrelated Kindler syndrome families belonging to a particular clan from Pakistan. *J. Dermatol.* 39(7):640-1. DOI: [10.1111/j.1346-8138.2011.01464.x](https://doi.org/10.1111/j.1346-8138.2011.01464.x). Impact factor=4.005
3. **Pakeeza A. Shaiq**, Alfred Klausegger, Amir Latif, Johann Bauer, Raheel Qamar and Ghazala Kaukab Raja (2012). Missense mutation in *LAMA3* associated with Herlitz Junctional Epidermolysis Bullosa in a Pakistani family. *Pak. J. Zool.* 44(6):1697-1702. Impact factor=0.831
4. **Pakeeza A. Shaiq**, P.E. Stuart, A. Latif, C. Schmotzer, A. H. Kazmi, M. S. Khan, M. Azam, T. Tejasvi, J.J. Voorhees, G.K. Raja, J.T. Elder, R. Qamar, R.P. Nair (2013). Genetic Associations of Psoriasis in a Pakistani Population. *Br. J. Dermatol.* doi: 10.1111/bjd.12313. Impact factor=9.302
5. **Pakeeza A. Shaiq**, J. Klar, B. Bergendal and N. Dahl (2013). *WNT10A* mutations account for ¼ of population-based isolated oligodontia and show phenotypic correlations. *Am. J. Med. Genet. (A).* 164A(2):353-9. DOI: [10.1002/ajmg.a.36243](https://doi.org/10.1002/ajmg.a.36243). Impact factor=2.125
6. J. Klar, A. Khalfallah, **Pakeeza A. Shaiq**, H. T. Gazda and N. Dahl (2014). Recurrent *GATA1* gene mutations in Diamond-Blackfan anaemia. *Br. J. Haematol.* 166:949-51. Impact factor=5.518
7. Schuster J., T. N. Khan, M. Tariq, **P. A. Shaiq**, K. Mäbert, S. M. Baig and J. Klar (2014). Exome sequencing circumvents missing clinical data and identifies a *BSCL2* mutation in congenital lipodystrophy. *BMC med genet.* 15:71 doi:10.1186/1471-2350-15-71. Impact factor=1.67
8. Philip E. Stuart, Trilokraj Tejasvi, **Pakeeza A. Shaiq**, Priya Kullavanijaya, Raheel Qamar, Ghazala K. Raja, Yanming Li, John J. Voorhees, Gonçalo R. Abecasis, James T. Elder, Rajan P. Nair (2015). A Single SNP Surrogate for Genotyping HLA-C:06:02 in Diverse Populations. *J Invest Dermatol.* 135(4): 1177–1180. Impact factor=8.551
9. Muhammad Fiaz, Faiza Rani, Muhammad Saqlain, Abid Mahmood, **Pakeeza Arzoo Shaiq**, SM Saqlan Naqvi, Rizwan Aziz Qazi and Ghazala Kaukab Raja (2016). Identification of Population Specific Risk Phenotypes Contributing Towards Development of Metabolic Syndrome. *Pak. J. Zool.* 48(4):949-955. Impact factor =0.831
10. Shagufta Jabeen, Muhammad Saqlain Raja, Sadia Saeed, Muhammad Mobeen Zafar, Rizwana Abdul Ghani, Abid Mahmood, Muhammad Fiaz, **Pakeeza Arzoo Shaiq**, Shahid Mahmood Baig, S.M. Saqlan Naqvi and Ghazala Kaukab Raja. (2017). Factors Influencing Vulnerability Towards Heroin Addiction in a Pakistani Cohort. *Pak. J. Zool.*, vol. 49(1):95-99. Impact factor=0.831

11. Muhammad Saqlain , Humaira Kalsoom , Muhammad Fiaz, Abid Mahmood , Rizwan Aziz Qaz ,Waseem Safdar , **Pakeeza Arzoo Shaiq** ,Bernard M.Y. Cheung and Ghazala Kaukab Raja (2017). Association of Intestinal Fatty Acid Binding Protein (FABP2) Polymorphism with Metabolic Syndrome Risk. Pakistan J. Zool., 50(1):175-181. Impact factor =0.831
12. Zehra Agha , **Pakeeza Arzoo Shaiq** , Shakeel Ahmed, Liaquat Ali , Maleeha Azam , Syeda Hafiza Benish Ali , Ghazala Kaukab , Raheel Qamar (2017). A study of ACE, eNOS and MTHFR association with psoriasis in Pakistani population. Meta Gene <https://doi.org/10.1016/j.mgene.2017.12.001>. Impact factor =0.514
13. Madiha Khalid; Terri Driessen; Jong Seo Lee; Leon Tejwani; Asad Rasool; Muhammad Saqlain; **Pakeeza Arzoo**; Muhammad Hanif; Andrew Dewan; and G. K. Raja. (2018). Association of CACNA1C with bipolar disorder among the Pakistani population. Gene. 664:119-126. Impact factor=3.688
14. Muhammad Fiaz, **Pakeeza Arzoo Shaiq**, Ghazala Kaukab Raj, Muhammad Saqlain, Abid Mahmood, Syed Muhammad Saqlan Naqvi, Bernard Man Yung Cheung. (2019). Association study of Apolipoprotein A5 gene (APOA5 gene) variant with the metabolic syndrome in local Pakistani population. Pak. J. Med. Assoc. 69(3):301-305. Impact factor=0.718
15. Philip E. Stuart, Lam C. Tsoi, Rajan P. Nair,kk Manju Ghosh, Madhulika Kabra, **Pakeeza A. Shaiq**, Ghazala K. Raja, Raheel Qamar, B. K. Thelma, Matthew T. Patrick, Anita Parihar, Sonam Singh, Sujay Khandpur, Uma Kumar,Frauke Degenhardt,Trilokraj Tejasvi, John J. Voorhees, Stefan Weidinger, Andre Franke, Goncalo R. Abecasis, Vinod K. Sharma, James T. Elder. (2021) Transethnic analysis of psoriasis susceptibility in South Asians and Europeans enhances fine-mapping in the MHC and genomewide. Human Genetic and Genomic Advances. 3, 100069, January 13, 2022. <https://doi.org/10.1016/j.xhgg.2021.100069>.
16. Shaheen Shahzad, Roshana Mukhtar, Sajid Rashid, Maryam Rozi, Madiha Rasheed, Imran Afzal, **Pakeeza Arzoo Shaiq**. (2022) L237P Substitution in the UROS Gene Causes X-linked Recessive Congenital Erythropoietic Porphyria in Pakistani Consanguineous Family through altered Uroporphyrinogen III Binding. Pak. J. Zool. 54(4):1849-1857. <https://dx.doi.org/10.17582/journal.pjz/20200618170629>. Impact factor =0.831
17. Mariam Mujtaba, Pranabhashis Haldar, Mathew Richardson, Hira Shahzad, Muhammad Ishaq Javed, Ghazala K. Raja, **Pakeeza A. Shaiq**, Sadia Saeed. (2022). Demographic and Clinical Determinants of Tuberculosis and TB Recurrence: a double-edged retrospective study from Pakistan. Journal of Tropical Medicine. <https://doi.org/10.1155/2022/4408306> . Impact factor =2.705
18. Muhammad Mobeen Zafar, Muhammad Saqlain, Asad Mahmood Raja, Pakeeza Arzoo Shaiq, Muhammad Javaid Asad, Muhammad Kausar Nawaz Shah, Farah Fatima, Hadi Valadi, Muhammad Nawaz, Ghazala Kaukab Raja. (2022). 9p21 Locus Polymorphism is A Strong Predictor of Metabolic Syndrome and Cardiometabolic Risk Phenotypes Regardless of Coronary Heart Disease. Genes. 13, 2226. <https://doi.org/10.3390/genes13122226>. Impact factor=3.688
19. Maria Asif, Maryam Anayat, Faiza Tariq, Tanzeela Noureen, Ghulam Naseer Udin, Christian Becker, Kerstin Becker, Holger Thiele, Ehtisham Ul Haq Makhdoom, **Pakeeza Arzoo Shaiq**, Shahid M. Baig, Peter Nürnberg, Muhammad Sajid Hussain, Ghazala K. Raja, Uzma Abdullah. (2022) Whole-exome sequencing of Pakistani consanguineous families identified pathogenic variants in genes of intellectual disability. Genes. Impact factor=3.688 (Accepted=25.11.2022)

Animal Genetics

1. Abid Mahmood, Mahwash Jami, Muhammad Saqlain, **Pakeeza Arzoo Shaiq**, Syed Muhammad Saqlan Naqvi, Ghazala Kaukab Raja (2016). Association of β -Lactoglobulin Protein Isoforms with Milk Constituents in Goat Breeds. THE JOURNAL OF ANIMAL AND PLANT SCIENCES. Impact factor= 0.448
2. G. K. Raja, A. Mahmood, R. M. Saqlain, M. M. Zafar, A. M. Raja, **P. A. Shaiq** and S. M. S. Naqvi. (2020) B allele of B-lactoglobulin as a marker of dairy traits in Pakistani goat breeds. THE JOURNAL OF ANIMAL AND PLANT SCIENCES. 30(1):18-24. Impact factor 0.448

SEQUENCES

Genetic Sequences released by International Genetic Database “GenBank” maintained at NCBI, NIH, Bethesda, USA

Sequences Details: CSN3 gene Exon IV of 11 Indigenous Goat Breeds

Authors: Raja, G.K., Rafiq, M., Rasheed, M., **Shaiq, P.A.** and Mahmood, A.

S.#	Goat CSN3 Exon IV Sequence Definition	GenBank ID	Sequence Release Date
1	Capra hircus isolate S7 kappa-casein (CSN3) gene, partial cds.	MK480433.1	27-Aug-19
2	Capra hircus isolate S12 kappa-casein (CSN3) gene, partial cds.	MK480434.1	27-Aug-19
3	Capra hircus isolate S13 kappa-casein (CSN3) gene, partial cds.	MK480435.1	27-Aug-19
4	Capra hircus isolate S29 kappa-casein (CSN3) gene, partial cds.	MK480436.1	27-Aug-19
5	Capra hircus isolate S31 kappa-casein (CSN3) gene, partial cds.	MK480437.1	27-Aug-19
6	Capra hircus isolate S34 kappa-casein (CSN3) gene, partial cds.	MK480438.1	27-Aug-19
7	Capra hircus isolate S39 kappa-casein (CSN3) gene, partial cds.	MK480439.1	27-Aug-19
8	Capra hircus isolate S44 kappa-casein (CSN3) gene, partial cds.	MK480440.1	27-Aug-19
9	Capra hircus isolate S46 kappa-casein (CSN3) gene, partial cds.	MK480441.1	27-Aug-19
10	Capra hircus isolate S47 kappa-casein (CSN3) gene, partial cds.	MK480442.1	27-Aug-19
11	Capra hircus isolate S52 kappa-casein (CSN3) gene, partial cds.	MK480443.1	27-Aug-19

PRESENTATIONS OF POSTER (INTERNATIONAL CONFERENCE)

1. Genetic Associations of Psoriasis in a Pakistani Population. **Pakeeza A. Shaiq**, Philip E. Stuart, Ghazala K. Raja, Raheel Qamar, John J. Voorhees, James T. Elder, Rajan P. Nair. The Society for Investigative Dermatology 2011 Annual Meeting May 4 – 7, 2011 JW Marriott Desert Ridge Resort and Spa - Phoenix, Arizona
2. A Single SNP Surrogate for HLA-Cw6 Genotyping in Diverse Populations. RP Nair, PE Stuart, T Tejasvi, **PA Shaiq**, R Qamar, GK Raja, P Kullavanijaya, J Ding, Y Li, JJ Voorhees, GR Abecasis, JT Elder. October 11 – 15 October, 2011. The American Society of Human Genetics Annual Meeting, Montreal, Quebec, Canada.
3. Association of APOC3 polymorphism with risk phenotypes of non-alcoholic fatty liver disease. Rizwana Abdul Ghani, Muhammad Saqlain, **Pakeeza Arzoo Shaiq**, Adnan Ali, Ghazala Kaukab Raja. 8-12 July 2015. 5th ICCR (International Chair on Cardiometabolic Risk) Congress on Chronic Societal Cardiometabolic Diseases. Quebec, Canada
4. Characterization of Non-Alcoholic Fatty Liver Disease Susceptibility Markers through Genetic Screening: a study from Pakistan. Rizwana Abdul Ghani, Muhammad Saqlain, Sadia Saeed, Muhammad Fiaz, Abid Mahmood, Shagufta Jabeen, **Pakeeza Arzoo Shaiq**, Ghazala Kaukab Raja. 17-19 Nov 2016. EGHS-WGO International Congress. Abu-Dubai, UAE.
5. Identification of NAFLD Predisposing Genetic Risk Markers in Pakistani Subjects. A.M. Raja, R. Abdul Ghani, M.M. Zafar, M. Saqlain, **P. A. Shaiq**, G.K. Raja. 2nd International Conference on Fatty Liver (ICFL). 27-29 June 2019. Berlin, Germany
6. Estimation of serum electrolytes dysfunction in acute MI patients presented at tertiary care hospital in Pakistan. MNU Amin, AM Ali, AB Hussain, AM Raja, **PA Shaiq** – 88TH European Atherosclerosis Society Conference (Virtual format), October 4-7, 2020.
7. Frequency of endocarditis in pediatric patients admitted in a tertiary care cardiac hospital of Pakistan. MNU Amin, AM Raja, **PA Shaiq** - 88TH European Atherosclerosis Society Conference (Virtual format), October 4-7, 2020.
8. Assessment of pre & post serum creatinine levels in CABG patients of northern Pakistan. MNU Amin, AB Hussain, AM Ali, AM Raja, **PA Shaiq** - 88TH European Atherosclerosis Society Conference (Virtual format), October 4-7, 2020.
9. Association of Non Alcoholic Fatty Liver Disease (NAFLD) with Coronary Artery Disease in Pakistani Subjects. M. Noorulamin, A. M. Ali, M. M. Zafar, A. M. Raja, G. K. Raja, **P. A. Shaiq**. 89TH European Atherosclerosis Society Conference (Virtual format), May30-June 02, 2021.
10. Genetic liabilities of Schizophrenia risk factors as Polygenic scores for case status prediction: Application and Bias Evaluation in a Multi-ancestry setting. 2021 Virtual World Congress of Psychiatric Genetics, Genomics: the journey to improve mental health. 11-15th October, 2021.
11. Modifiable and Non-modifiable risk stratification of Coronary Artery Diseases. Noor ul Amin, Sumera Nazneen, Muhammad Mobeen Zafar, Umme habiba, Sadia Saeed, Ghazala K. Raja, Pakeeza A. Shaiq. 9th INTERNATIONAL CONFERENCE ON BIOLOGICAL AND COMPUTATIONAL SCIENCES, CUST. 25th October, 2021
12. Antenatal Screening for Thalassemia minor among conceiving females: A preventive measure " Organization for Women in Science for the Developing World (OWSD) conference, "Modern trends in Science and Technology: Contribution of Pakistani Women", KIBGE, Karachi, Pakistan, 17th of December, 2022.

ORAL TALKS AT CONFERENCE

1. QR based Identification of Meat and Meat Products of Pakistan through DNA Barcoding. Arkam Masood, Tayyab Bilal, Sadaf Naz, Sadia Saeed, Ghazala K. Raja, Kashif Ishaq, **Pakeeza A. Shaiq**, at PCSIR laboratories complex, university road, Peshawar, International conference on emerging trends in food safety and nutrition. 26-27th Oct, 2022
2. Utilization of targeted NGS for quick identification of causative mutations to resolve DEB phenotypes. Shafaqat Khan, Razaqat Ishaq, Kinza Yaseen, Aatika Minhas, Alfred Klausegger, Sadia Saeed, Ghazala Kaukab Raja and **Pakeeza Arzoo Shaiq** at 5th Pak-Turk International Conference on Emerging technologies in the field of Sciences and Engineering, 2022, 1-2nd December, 2022, University of Wah.

RESEARCH PROJECTS (as Principal Investigator)

1. PMAS-AAUR funded project on “**Association studies on ApoE polymorphisms in local psoriasis vulgaris patients**”, 2010-2012.
2. PMAS-AAUR funded project on “**Association studies of IFIH1 polymorphisms in local psoriasis vulgaris patients**”, 2015.
3. PMAS-AAUR funded project entitled, “**Mutational analysis of Diamond Blackfan anemia in Pakistani patient(s)**”, 2018-19.
4. PMAS-AAUR funded project entitled, “**CRISPR/Cas9 mediated point of care diagnosis of COVID-19 in local population**”, 2021-22.
5. PCSIR funded project entitled, “Genetic appraisal via DNA Barcoding of Meat and Meat products”. 2021-2022
6. PCSIR funded project entitled, “Investigation of early diagnostic markers for Non- ST-elevation Myocardial infarction”. 2021-2022

RESEARCH PROJECTS (as Co-Principal Investigator)

1. PMAS-AAUR funded project entitled, “**Molecular Investigation for recurrent pregnancy loss in Pakistani population**”, 2022-23.
2. Natural Science Linkage programme, Pakistan Science foundation funded project entitled, “**Genetic studies of inherited neurodevelopmental disorders in Pakistani families**”. Concept paper approved

OTHER PUBLICATIONS

ABSTRACTS IN SCIENTIFIC JOURNALS (IF=28.827)

1. Estimation of serum electrolytes dysfunction in acute MI patients presented at tertiary care hospital in Pakistan. MNU Amin, AM Ali, AB Hussain, AM Raja, **PA Shaiq** - Atherosclerosis, 2020 (IF=3.919)
<https://doi.org/10.1016/j.atherosclerosis.2020.10.712>
2. Frequency of endocarditis in pediatric patients admitted in a tertiary care cardiac hospital of Pakistan. MNU Amin, AM Raja, **PA Shaiq** - Atherosclerosis, 2020(IF=3.919)
<https://doi.org/10.1016/j.atherosclerosis.2020.10.729>
3. Assessment of pre & post serum creatinine levels in CABG patients of northern Pakistan. MNU Amin, AB Hussain, AM Ali, AM Raja, **PA Shaiq** - Atherosclerosis, 2020(IF=3.919)
<https://doi.org/10.1016/j.atherosclerosis.2020.10.543>
4. Association of Non Alcoholic Fatty Liver Disease (NAFLD) with Coronary Artery Disease in Pakistani Subjects. M. Noorulamin, A. M. Ali, M. M. Zafar, A. M. Raja, G. K. Raja, P. A. Shaiq. 89TH European Atherosclerosis Society Conference (Virtual format), May 30-June 02, 2021. Atherosclerosis, 2021 (IF=3.919)
5. Transethnic analysis of psoriasis susceptibility in South Asians and Europeans enhances fine-mapping in the MHC and genomewide. P.E.Stuart, L.Tsoi, R.P.Nai, M.Ghosh, M.Kabra, P.A.Shaiq, R.Qamar, T.Tejasvi, J.J.Voorhees, A.Franke, V.K.Sharma, J.T.Elder. J. Invest. Dermatol. Society for Investigative Dermatology (SID) 2021 Virtual Meeting Abstract Supplement (SID 2021) 3-8 May 2021 • Volume 141, Issue 5, Supplement, Pages A1-A4, S1-S148. (May 2021) (IF=8.551)
<https://doi.org/10.1016/j.jid.2021.02.196>
6. Genetic liabilities of Schizophrenia risk factors as Polygenic scores for case status prediction: Application and Bias Evaluation in a Multi-ancestry setting. UmmeHabibaJamesT.R.WaltersPakeezaA.ShaiqMuhammadR.MemonAntonioF.Pardinas. European Neuropsychopharmacology 51 (2021) e135. (IF=4.6)
<https://doi.org/10.1016/j.euroneuro.2021.08.075>

M. PHIL. STUDENTS SUPERVISED:

S. No.	Name of student	Year	Status	Research title
HUMAN GENETICS				
1	Syedda Rabab Zahra	Munir 2011-13	Completed	Association studies on ApoE polymorphisms in local psoriasis vulgaris patients
2	Muhammad Yousaf	Adnan 2012-14	Completed	Association studies of Tumor necrosis factor promoter polymorphism(s) in psoriatic arthritis cohort from Pakistan
3	Sakhawat Ali	2012-14	Completed	Relationship between Anthropometric and Biochemical Parameters in Diabetic Subjects
4	Ambreen Barkat	2013-15	Completed	Association study of <i>NOTCH4</i> gene polymorphism(s) in Pakistani patients with Psoriasis vulgaris
5	Muhammad Mohsin	2013-15	Completed	Investigation of correlation of polymorphism(s) in <i>NOTCH2</i> gene with local psoriasis vulgaris

6	Umme Habiba	2013-15	Completed	patients Association study between <i>DISC1</i> polymorphism(s) in local schizophrenic patients
7	Sidra Bibi	2013-15	Completed	Case-control study of Metabolic syndrome and rs1421085 in local population
8	Waqas Ahmad	2013-15	Completed	Correlation of Risk Parameters for Recurrent Miscarriages
9	Asad Mehmood Raja	2013-15	Completed	Candidate Gene Analysis of Epileptic Patients in Pakistan
10	Bushra Afzal	2014-16	Completed	Correlation of <i>CHRNA3-CHRNA6</i> genetic variant(s) and smoking on local psoriasis vulgaris patients
11	Amna Khan	2014-16	Completed	Association study between Angiopoietin-2 polymorphism in local Psoriasis vulgaris patients
12	Sardar Muhammad Bilal	2014-16	Completed	Study of genetic polymorphism(s) of PTPN22 gene in vitiligo patients of Pakistan
13	Memoona Islam	2014-16	Completed	Correlation of psychosis and relapse in schizophrenia and <i>GRM3</i> genotype
14	Sadaf Naimat	2015-17	Completed	Mutational analysis of Glucose-6-dehydrogenase deficiency in Pakistan
15	Samra Batool	2015-17	Completed	Study of genetic variation at <i>IFIH1</i> locus with serological profile in local <i>Psoriasis vulgaris</i> patients
16	Farwa Faried Hashmi	2015-17	Completed	Investigation of rs7637230 polymorphism in local <i>Psoriasis vulgaris</i> patients
17	Mariam Ahmed Mujtaba	2015-17	Completed	Expression analysis of candidate gene(s) in auto immune diseases
18	Umme E Rubab	2015-17	Completed	Association studies of rs12189871 in patients of cutaneous psoriasis
19	Sidrah Badshah	2016-18	Completed	Screening of Hotspot Mutation(s) in Diamond Blackfan Anemia Patient(s)
20	Shafaqat Khan	2016-18	Completed	Mutational Screening of Epidermolysis bullosa patient(s) from Pakistan
21	Adeela Masood	2016-18	Completed	Study of genetic variation at <i>IFNγ</i> with serological profile in local Psoriasis vulgaris patients
22	Atia Fazal	2016-18	Completed	Differential expression analysis of candidate gene(s) in psoriatic vs. normal epidermis
23	Ume e Kulsoom	2016-18	Completed	Frequency estimation of visual hallucinations in Schizophrenia patients from Pakistan
24	Rubab Kanwaldad	2017-19	Completed	Mutational analyses of Muscular Dystrophy in multiplex families
25	Sumera Nazneen	2020-22	In progress	Investigation of early diagnostic markers for Non- ST-elevation Myocardial infarction
26	Rabbiya Sultana	2021-23	In progress	Screening of <i>DMD</i> hotspot mutations in clinically diagnosed Muscular Dystrophy patients

ANIMAL GENETICS

1	Tayyab Bilal	2020-22	In progress	Genetic appraisal and comparative production performance of meat type rabbit
2	Arqam Masood	2020-22	In progress	Identification of meat and poultry species from raw and processed food using DNA barcoding
3	Sadaf Naz	2021-23	In progress	Development of in-house DNA barcoding for identification of indigenous Camel (<i>Camelus dromedaries</i>)

MOLECULAR DIAGNOSTICS

1	Muhammad Mazhar	<u>2021-23</u>	In progress	Development of CRISPR/Cas9 mediated indigenous diagnostic kit for COVID-19
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M.PHIL THESIS CO-SUPERVISED:

S. No.	Name of student	Year	Title	University	Supervised with
1	Roshana Mukhtar	2015-17	Genetic screening of Porphyria in local population	Islamic International University Islamabad	Dr. Shaheen
2	Aamir Pervez	2015-17	Genotyping of thrombophilia patients in Pakistan	University of Poonch, AJK	Dr. Muhammad Majid
3	Ms. Faiza Nargis	2017-19	Genetic screening of MD in District Sudhoti and Poonch	University of Poonch, AJK	Dr. Muhammad Majid
4	Sajida Mehboob	2017-19	Genetic screening of Alopecia in District Sudhoti and Poonch	University of Poonch, AJK	Dr. Muhammad Majid
5	Sumra Mehmood	2019	Association study of psoriasis susceptibility	Women University of Azad Jammu and	Dr. Tahira Batool

6	Sadaf Nazir	2019	gene polymorphism in local psoriasis patients	Kashmir, Bagh	
7	Ulfat Arshad	2019	Case-control retrospective study of NF- κ B pathway gene in Pakistani psoriasis patients	Women University of Azad Jammu and Kashmir	Dr. Tahira Batool
8	Maryam Basharat	2019	Genetic analysis of <i>ARTS1</i> SNP associated with psoriasis vulgaris	Women University of Azad Jammu and Kashmir	Dr. Sadia Mumtaz
9	Arooj Niazi	2019-20	Analysis of genetic variation in <i>ERAP1</i> with cutaneous psoriasis	Women University of Azad Jammu and Kashmir	Dr. Sadia Mumtaz
			Mutational analysis of Muscular Dystrophy in local population	Virtual University	Dr. Akhtar Ali

FCPS THESIS CO-SUPERVISED:

S. No.	Name of student	Year	Title	University	Supervised with
1	Dr. Humerah, MBBS	Sobia (in progress)	2020 Association of variation in CDKN2A/2B genes in coronary artery disease with and without Type 2 Diabetes Mellitus	ISRA University	Prof. Dr. Umar Ali Kahn

Ph.D. STUDENTS SUPERVISED:

S. No.	Name of student	Year	Status	Research title
1	Rafaqat Ishaq	2014-20	Thesis submitted for foreign evaluation	Genetic etiology of Vitiligo in Pakistan
2	Muhammad Ilyas	2014-20	Thesis submitted for foreign evaluation	Genetic analysis of idiopathic epilepsy
3	Umme habiba	2015-21	Thesis submitted	Genetic and Functional Investigation of Risk Factors in Schizophrenia patients from Pakistan
4	Noor ul Amin	2016-	In progress	Genetic and molecular characterization of Coronary Artery Disease

LIST OF COURSES TAUGHT

Principles of Genetics, Genetic Engineering, Bacterial Genetics, Molecular bases of Human Genetic Diseases, Principles of Biotechnology, Mitochondria and Plastids, Carbohydrates, Introduction to Biochemistry, Molecular Biology, Human Physiology, Cell and Tissue Culture and Research Planning and Report Writing.

MEMBERSHIP

1. OWSD (Organization for women in Science for the Developing World)
2. American Society of Human Genetics (ASHG)
3. Pakistan Society for Biochemistry and Molecular Biology, School of Biological Sciences, University of the Punjab, Lahore-54590, Pakistan.

REFERENCES

Provided if required.