

SABIR HUSSAIN



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Date of Birth

20th February, 1982

Place of Birth

Parachinar

Marital status

Married

Nationality

Pakistani

Accomplished PhD with 9 years of experience, conducting scientific research in projects based on molecular genetics of complex disorders. Remained proactive leader and team player with integral success of numerous research projects and motivated by challenges to explore novel risk markers for cardiology-derived ventures. Resourceful and versatile with excellent interpersonal skills, highly developed work ethics, and reputation for integrity. Fluent in English and Urdu

EXPERIENCE

11-4-2022 – CONTINUED

TENURED ASSOCIATE PROFESSOR, COMSATS UNIVERSITY ISLAMABAD

Teaching and Research along with administration responsibilities

19-12-2014 – 10-4-2022

ASSISTANT PROFESSOR (TENURE TRACK SYSTEM), COMSATS UNIVERSITY ISLAMABAD

Teaching and Research along with administration responsibilities

19-12-2013 – 18-12-2014

ASSISTANT PROFESSOR (INTERIM PLACEMENT FOR FRESH PHD, IPFP), COMSATS UNIVERSITY ISLAMABAD

Teaching and Research along with administration responsibilities

2007 – 2007

RESEARCH ASSOCIATE, ARMY MEDICAL COLLEGE (NUST) RAWALPINDI

Research and labs activities for medical students

EDUCATION

NOVEMBER 2013

PHD, QUAID-I-AZAM UNIVERSITY ISLAMABAD

Resistin and Tumor Necrosis Factor-Alpha Gene Polymorphism and the Risk for Cardiovascular Disease in a Pakistani Population

FEBRUARY 2006

M. PHIL, QUAID-I-AZAM UNIVERSITY ISLAMABAD

Genetic Mapping of Candidates of Hereditary Primary Microcephaly Genes in Pakistani Families

JANUARY 2004

M. SC, QUAID-I-AZAM UNIVERSITY ISLAMABAD

With first division

SEPTEMBER 2001

B. SC, PESHAWAR UNIVERSITY, PESHAWAR

Biological sciences (First division)

SKILLS

Experimental Skills

1. Polymerase Chain Reaction (ARMS, RT-PCR)
2. DNA Isolation enzymatic/Non enzymatic
3. Genotyping, RFLP, SSCP
4. DNA Sequencing
5. Blotting Techniques
6. ELISA Techniques
7. Biochemical Analysis
8. Mouse model gene expression analysis
9. Linkage Analysis, Linkage disequilibrium
10. Microscopy

Computational Skills

1. Basic MS Word, Excel, Power Point
2. SPSS Package utilization in Biosciences
3. GraphPad Prism for statistical analysis
4. MiniTab for statistical analysis
5. Linkage LOD score, ODD Ratio, Regression, Multivariate analysis,
6. TDT, sibTDT, case-control association, cross sectional analysis, cohort analysis

TRAINING AND CERTIFICATE

JAN 2014

TRAINING, FDA COMSATS ISLAMABAD

Week training on “Out-come based learning” CIIT Faculty Development Academy

FEBRUARY 2016

TRAINING, CIIT, ISLAMABAD

Training of EL-Teach (Teaching with Confidence) from ETS in collaboration of CIIT Islamabad

JANUARY 2015

AWARD, COMSATS UNIVERSITY ISLAMABAD

Research Productivity Allowance 2015, COMSATS University Islamabad

CONFERENCE/PROCEEDINGS

19-20 Oct, 2011	Mini Symposium on Advances in Neurobiology	Quaid-i-Azam University Islamabad
15 Dec, 2011	Nano-medicine and Nano-dentistry	Priston University Islamabad
21 Feb, 2012	Trends in Biochemistry and Molecular Biology	Quaid-i-Azam University Islamabad
19 Jul, 2020	Genetic Polymorphisms, Drug Delivery Systems and New Therapeutic Approaches for Complex Disease	Quaid-i-Azam University Islamabad
2 May, 2012	XLVII Annual Congress SBF and III Scientific Meeting of the Multicenter Post-graduate program in physiological science	Brazil
20-22 Aug, 2013	International Conference on the Applications of Molecular Biology in Medicine and Agriculture	Quaid-i-Azam University Islamabad

RESEARCH PUBLICATIONS

1. Aneela Shoukat, Syed Muhammad Nurulain, Sabir Hussain et al. Chronic exposure to electronic waste poses risk to liver toxicity with molecular interaction of GSTM1, GSTT1 null variants, and GSTP1. **Environmental Pollution**, 2023; 334, 122204.
2. Khulah Sadia, Mbah Ntepe Leonel Javeres, Faheem Tahir, Syed Tahir Abbas Shah, Rabia Habib, Zahid Muneer, **Sabir Hussain**, Syed Muhammad Nurulain Acetylcholinesterase, pro-inflammatory cytokines, and association of *ACHE* SNP rs 17228602 with male infertility. **PLoS ONE**, 2023; 18(4): e0282579.
3. Sosan Andleeb Khan, Mbah Ntepe Leonel Javeres, Syed Tahir Abbas Shah, Nazia Bibi, Zahid Muneer, **Sabir Hussain**, Eugenie Nepovimova, Kamil Kuca, Syed Muhammad Nurulain. Dysregulation of butyrylcholinesterase, BCHE gene SNP rs1803274, and pro-inflammatory cytokines in occupational workers. **Environmental Research** 2023 Mar 1; 220: 115195.
4. Zia Ul Islam, Umul Baneen, Taqdees Khaliq, Syed Muhammad Nurulain, Zahid Muneer, **Sabir Hussain**. Association analysis of miRNA-146a and miRNA-499 polymorphisms with rheumatoid arthritis: a case-control and trio-family study. **Clinical and Experimental Medicine** 2022 Oct 27. Doi: 10.1007/s10238-022-00916-y.
5. Moomal Sarosh, Syed Muhammad Nurulain, Syed Tahir Abbas Shah, Muhammad Jadoon Khan, Zahid Muneer, Nazia Bibi, Syed Fawad Ali Shah, **Sabir Hussain**. Association analysis of

- single nucleotide polymorphisms in autophagy related 7 (ATG7) gene in patients with coronary artery disease. *Medicine (Baltimore)* 2022 Jul 1; 101(26): e29776.
6. Syed Fawad Ali Shah, Sumaira Akram, Tahir Iqbal, Sadia Nawaz, Muhammad Arshad Rafiq, **Sabir Hussain**. Arginase-1 functional polymorphisms and the risk of dilated cardiomyopathy in patients. *Medicine (Baltimore)* 2019; 98(47): e17694.
 7. Syed Fawad Ali Shah, Muhammad Jadoon Khan, Tahir Iqbal, Sumaira Akram, Farah Waheed, Humayoon Shafique Satti, Muhammad Arshad Rafiq, **Sabir Hussain**. ARG1 variants and the risk of familial coronary artery disease in subjects originating from Pakistan. *Genetic Testing and Molecular Biomarkers* 2019; 23(1):32-38.
 8. Syed Fawad Ali Shah, Tahir Iqbal, Raheel Qamar, Muhammad Arshad Rafiq, **Sabir Hussain**. ARG1 gene polymorphisms and its association in individuals with essential hypertension: A case-control study. *DNA and Cell Biology* 2018; 37(7):609-616.
 9. Syed Fawad Ali Shah, Tahir Iqbal, Nasreen Naveed, Sumaira Akram, Muhammad Arshad Rafiq, **Sabir Hussain**. ARG1 single nucleotide polymorphism rs2781666 and rs2781665 confer the risk of type 2 diabetes mellitus. *EXCLI Journal* 2018; 17: 847-855.
 10. **Sabir Hussain** and Zameer Ali. Prevalence of hepatitis B virus in the Kurram Agency, Pakistan: A 5-year observational study in a war-affected region. *Journal of Clinical Virology* 2016; 82; 17-19.
 11. **Sabir Hussain**, Ahmad Faraz, Tahir Iqbal; The RETN gene rs1862513 polymorphism as a novel predisposing marker for familial Acne vulgaris in a Pakistani population. *Iranian Journal of Basic Medical Sciences* 2015; 18 (5): 526-528.
 12. **Sabir Hussain**, Tahir Iqbal, Irfan Sadiq, Saima Feroz, Humayoon Shafique Satti. A polymorphism in the IL-8 gene promoter and the risk of acne vulgaris in a Pakistani population. *Iranian Journal of Allergy, Asthma, and Immunology* 2015; 14 (3): 443-449.
 13. **Sabir Hussain**, Tahir Iqbal, Qamar Javed. TNF-alpha-308G>A polymorphism and the risk of familial CAD in a Pakistani Population. *Human Immunology* 2015; 76: 13-18.
 14. Javeria Haroon, **Sabir Hussain**, Qamar Javed; Heritability of IL-1A gene promoter polymorphism in patients with coronary artery disease: A trio-family study. *Lab Medicine* 2015; 46: 20-25.
 15. **Sabir Hussain**, Tahir Iqbal. Association of Serum Uric Acid with Family History of Coronary Artery Disease in a Pakistani Population. *Balkan Medical Journal* 2015; 32(2) 235-236.
 16. N. M. Aisha, J. Haroon, **S. Hussain**, C. M. Tahir, M. Ikramullah, H. Rahim, N. Kishwar, S. Younis, M. J. Hassan, Q. Javed, Association between tumour necrosis- α gene polymorphisms and acne vulgaris in a Pakistani population, *Clinical and Experimental Dermatology* 2016, Volume 41(3): 297-301.

17. **Sabir Hussain** and Tahir Ali, IL-13 Gene Polymorphisms and Their Association with Atopic Asthma and Rhinitis in Pakistani Patients. *Iran Journal Allergy Asthma and Immunology* 2014 ; 13(4) : 298-299.
18. Humayoon Shafiq Satti, **Sabir Hussain**, Qamar Javed. Association of Interleukin-6 gene promoter polymorphism with coronary artery disease in Pakistani families. *The Scientific World Journal* 2013, Article ID: 538365, 6 pages.
19. **Sabir Hussain**, Shakeela Bibi, Qamar Javed. Heritability of Genetic Variants of Resistin Gene in Patients with Coronary Artery Disease: A Family-Based Study. *Clinical Biochemistry* 2011; 44: 618-622.
20. **Sabir Hussain**, Muhammad Asghar, Qamar Javed. Resistin Gene Promoter Region Polymorphism and the Risk of Hypertrophic Cardiomyopathy in Patients. *Translational Research* 2010; 155: 142-147.
21. Asma Gul, Muhammad Jawad Hassan, **Sabir Hussain**, Syed Irfan Raza, Muhammad Salman Chishti, Wasim Ahmad. A Novel Deletion Mutation in CENPJ Gene in a Pakistani Family with Autosomal Recessive Primary Microcephaly. *Journal of Human Genetics* 2006; 51: 760-764.
22. Amna Siddiqui, **Sabir Hussain**, Aisha Azam et al. ANRIL polymorphism rs1333049, a novel genetic predictor for diabetic retinopathy complication. *Meta Gene*; 2017; 14: 33-37.
23. **Sabir Hussain**, Javeria Haroon, Shagufta Ejaz, Qamar Javed. Variants of resistin gene and the risk of idiopathic dilated cardiomyopathy in Pakistan. *Meta Gene* 2016; 9: 37-41.
24. Haris Ja'afar Bello, Syed Tahir Abbas Shah, Muhammad Arshad Rafiq and **Sabir Hussain**. Systemic Levels of Interleukin 8 and Hematological Measures in Acute Leukemia Patients. *Transylvanian Review*: Vol XXVI, No. 28, May 2018.

STUDENT SUPERVISION (PHD)

1.	Syed Fawad Ali Shah SP16-PBM-005	Analysis of Candidate genes affecting nitric oxide synthesis in patients with cardiovascular diseases	Thesis Submitted
2.	Alishba Kainat SP21-PBM-001	Genetic Analysis of Interleukins and their Expression in Patients with Cardiovascular Diseases	Research work Continued
3.	Moomal Sarosh SP21-PBM-005	Genetic and Expression Analysis of miRNAs in Cardiovascular Disease Patients	Research work Continued

STUDENT SUPERVISION MS/BS

1.	Nimra Riaz	SP15-RMG-014	Vitamin D Deficiency and The Risk of Familial Coronary Artery Disease: A Case-control Study	Completed
2.	Sumaira Akram	SP16-RMI-012	Molecular Characterization of Propionebacterium acne in patients from Pakistan	Completed
3.	Kiran Irshad	FA16-RMI-016	Molecular Characterization of ARG1 in post-menopausal women with rheumatoid arthritis	Completed
4.	Shafi-ud-din	SP17-RBM-007	Association Analysis of Single Nucleotide Polymorphisms in ARG1 and CAT Genes with Type 2 Diabetes Mellitus	Completed
5.	Nida Anjum	CIIT/FA18-RBM037/ISB	Single Nucleotide Polymorphism in ARG1 Gene and the Risk of Rheumatoid Arthritis	Completed
6.	Zia Ul Islam	CIIT/FA18-RMG019/ISB	Association of miR-146 Gene Polymorphism at rs2910164 with Coronary Artery Disease in Patients	Completed
7.	Shahla Irshad	CIIT/FA18-RMG016/ISB	Genetic Variants of Interleukin 17 Receptor C Gene and the Risk of Type 2 Diabetes Mellitus	Completed
8.	Alishba Kainat	SP19-RBM-005	Association Study of CYP11B2 Gene Polymorphism in Male Subjects with Coronary Artery Disease	Completed
9.	Moomal Sarosh	CIIT/SP18-RBM026/ISB	Genetic Variants of ATG7 and the Risk of Type 2 Diabetes Mellitus in CAD Patients	Completed
10.	Farrukh Jubair	CIIT/FA17-RBM033/ISB	Retrospective Case-control Study of Interleukin-17RC rs708567 Polymorphism in Patients with Rheumatoid Arthritis	Completed
11.	Rukhshan Zahid	CIIT/FA17-RBM023/ISB	Analysis of Interleukin-17A rs22755913 Polymorphism and their Association with Rheumatoid Arthritis	Completed
12.	Iqra Batool	CIIT/SP19-RMG-012/ISB	Association Analysis of Genetic Variant in CY11B2 Gene with CAD in Female Subjects	Completed
13.	Muhammad Khurshaid	CIIT/FA19-RBM-020/ISB	Prevalence of Celiac Disease in General Population of Khyber Pakhton Khwa Pakistan	Completed
14.	Umul Baneen	CIIT/FA19-RBM-028/ISB	A Genetic Variant in miRNA 146a and their Association with Rheumatoid Arthritis in Patients	Completed

15. Assawar Zainab CIIT/FA19-RMG-002/ISB	Association Analysis of Catalase-21 (rs7943316) Variant with Rheumatoid Arthritis	A/T	Completed
16. Akhlaq Ahmad Rahim CIIT/FA20-RBM-003/ISB	RETN-420C/G Polymorphism and the Risk of Hyperlipidemia in Pakistan		Completed
17. Qasim Ali CIIT/FA20-RBM-010/ISB	Correlation Analysis between RETN Polymorphism and Clinical Markers in Patients with Type II Diabetes Mellitus		Completed

RESEARCH GRANTS

1. AMOUNT: 0.5 M AGENCY: HIGHER EDUCATION COMMISSION	ASSOCIATION ANALYSIS BETWEEN ARGINASE1 GENE POLYMORPHISM AND CAD FROM PAKISTANI FAMILIES	COMPLETED
2. AMOUNT: 0.2 M AGENCY: CIIT	ANALYSIS OF TNF-ALPHA PROMOTER SNPS IN PATIENTS WITH ACNE VULGARIS: A TRIO-FAMILY STUDY	COMPLETED

ADMISTRATIVE EXPERIENCE

2020 TO DATE

INCHARGE SERVICES, BIOSCIENCES, COMSATS UNIVERSITY ISLAMABAD

To deal with all routine services matters of the faculty and students

2015 TO DATE

MEMBER GRADUATE COMMITTEE MEMBERS, BIOSCIENCES, COMSATS UNIVERSITY ISLAMABAD

To deal the examination of graduate students, time table, date sheets, and Viva voce

2017-2018

SPORTS COMMITTEE MEMBERS, BIOSCIENCES, COMSATS UNIVERSITY ISLAMABAD

To manage the sports events from Biosciences Departments

2014-2015

PROCTOR, COMSATS UNIVERSITY ISLAMABAD

Dealings of misconducts in CAMPUS

REFERENCES

Dr. Mustafa Nawaz Shafqat

Professor

Department of Biosciences

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Dr. Syed Muhammad Nurulain

Associate Professor

Department of Biosciences

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Tarlai, Park road Islamabad

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