

## Dr. Shahid Mudasir Baba

Department of Immunology & Molecular Medicine

Sher-i-Kashmir Institute of Medical Sciences Srinagar, Kashmir, India

email: [bshahid007@gmail.com](mailto:bshahid007@gmail.com)

Phone: +91-700-669-4465



### **EDUCATION**

#### **PhD: Immunology & Molecular Medicine (2017)**

Sher-i-Kashmir Institute of Medical Sciences, Kashmir, India. [www.skims.ac.in](http://www.skims.ac.in)

*Thesis topic: "Genetic variations in monitoring response to treatment in Acute Promyelocytic Leukemia patients of Kashmir."*

#### **MSc: Medical Laboratory Sciences (Immunology & Molecular Medicine) (2013)**

Department of Immunology & Molecular Medicine, Sher-i- Kashmir Institute of Medical Sciences, Kashmir, India.

*Concentrations:* Immunology, Molecular Biology, Cytogenetics, Cell Culture, Enzymology.

#### **BSc: Medical Laboratory Sciences (2010)**

Sher-i-Kashmir Institute of Medical Sciences, Kashmir, India.

*Concentrations:* Pathology, Biochemistry, Hematology, Blood Banking, Immunology, Microbiology, Genetics, Molecular biology, Pharmacology.

### **Additional Qualification**

#### **2-Year Diploma in Medical Laboratory Sciences (2008)**

Jammu & Kashmir State Medical Faculty, Kashmir, India

*Concentrations:* Pathology, Biochemistry, Hematology, Blood Banking, Microbiology, Molecular biology.

### **HONORS AND AWARDS**

**2017** Awarded best research scholar.

**2017** Awarded for Best research paper (Senior Resident Category)

**RESEARCH EXPERIENCE****Senior Resident****11 June 2017-22 Sept 2021**

*Sher-i -Kashmir Institute of Medical Sciences J&K, India. [www.skims.ac.in](http://www.skims.ac.in)*

1. Minimal Residual Disease Monitoring (MRD) in Chronic Myeloid Leukemia, Acute Promyelocytic Leukemia & Acute Lymphocytic Leukemia patients by Rq-PCR & RT-PCR.
2. Detection of various chromosomal translocations in Chronic Myeloid Leukemia, Acute Promyelocytic Leukemia & Acute Lymphocytic Leukemia patients by Karyotyping & FISH.
3. Epidemiological studies in various hematological malignancies (CML, AML, ALL, CLL).
4. Evaluation of allergies in patients by Skin Prick Test (SPT).
5. One (01) months experience of COVID-19 testing by RT-PCR in state level virology centre at SKIMS sponsored by National Institute of Virology, Pune.
6. Supervising MSc & PhD students.

**Research Associate-1****23 Sept 2021-28 Feb 2023**

*Indian Council of Medical Research (ICMR) sponsored research project entitled "**Efficiency of Hyperthermic Intravesical Chemotherapy (HIVEC) to target non-muscle invasive bladder cancers (NMIBC) and implications of prominent genetic alterations in the outcome of disease treatment**" at department of Urology, Sher-i -Kashmir Institute of Medical Sciences J&K, India.*

**Assistant Professor****1 March 2023-Present**

*Centre for Vocational Studies, Islamic University of Science & Technology, Awantipora, Kashmir, India, 192122. [www.iust.ac.in](http://www.iust.ac.in)*

**TRAINING & WORKSHOPS ATTENDED**

1. Short term training in the department of Hematology at All India Institute of Medical Sciences (AIIMS), New Delhi w.e.f. 28th April 2014 to 9th May 2014.
2. Advanced Course in Basic and Clinical Immunology by Federation of Clinical Immunology Societies (FOCIS), March 26-29, 2019 at the Shiv Vilas Resorts, Jaipur, India.
3. Short term training at professional biotech, Genome Diagnostics, New Delhi w.e.f. 1st November 2018 to 15th November 2018.
4. 3 day conference "37th Annual conference of Indian Immunology Society "Jammu, W.e.f. 7th February 2007 to 9th Feb. 2007.
5. Hosted two day CME on "Cancer Immunology" organized by Department of Biotechnology (GOI), New Delhi & Indian Immunology Society at SKIMS, Soura, Srinagar from 10th to 11 July 2013.

6. Hosted two day CME cum Workshop" YDR cum Research Ethics Workshop"organized by Young Diabetes Registry (YDR) collaborating centre, SKIMS &Institutional Ethics Committee (IEC) SKIMS, at SKIMS, Soura, Srinagar from 9thto 10 November 2015.

### **PAPERS/ABSTRACTS PRESENTED IN INTERNATIONAL/NATIONAL CONFERENCES**

**Oral presentation** in **International conference**, "2nd JK Medical Science Congress 2017 10-12 May 2017 & 1stAnnual Conference of M P PCOS Society.

**Oral presentation** in **national conference**, "Postgraduate Research Presentation Programme (PGRP-2016) 18-19 March 2016.

**Poster presentation** in **International conference**, "2019 Asian Advanced Course in Basic and Clinical Immunology" Federation of Clinical Immunology Societies (FOCIS), March 26–29, 2019, Jaipur,India.

**Poster presentation** in **International conference**, "2019 Asian Advanced Course in Basic and Clinical Immunology" Federation of Clinical Immunology Societies (FOCIS), March 26–29, 2019, Jaipur, India.

**Poster presentation** in **International conference**, "Asia Pacific Association of Allergy, Asthma and Clinical Immunology, October 15–17, 2021, Singapore.

### **Technical Experience**

#### **Molecular Biology techniques:**

- PCR, MS-PCR, Expression profiling by RT- PCR & Rq-PCR.
- DNA/RNA Extraction from Blood and human tissues.
- DNA extraction from paraffin embedded tissues.
- Protein Extraction from blood & Tissues.
- Electrophoresis, SDS-PAGE.
- Western Blotting
- Immunohistochemistry.
- Cell Culture.
- Karyotyping (Leukemia Cytogenetics).
- Fluorescent Insitu Hybridization (FISH).

#### **Biochemistry Techniques:**

- Spectrophotometry.
- Genomic DNA library construction
- Enzyme assays.

#### **Bioinformatics Techniques:**

- Sequence retrieval.
- Sequence analysis.
- Sequence alignments.
- BLAST.
- CLUSTALW.
- Primer design.

## PUBLICATIONS

### Research Papers

1. **Shahid M Baba**, Roohi Rasool, Ayaz Gull, Taha A Qureshi, Afaq H Beigh, Qurteeba Qadri, Zafar A Shah. **Effectiveness of Sublingual Immunotherapy in the Treatment of HDM-Induced Nasobronchial Allergies: A 3-Year Randomized Case-Control Study from Kashmir.** *Frontiers in Immunology.* 2021; DOI:10.3389/fimmu.2021.723814.  
<https://pubmed.ncbi.nlm.nih.gov/34721385/>
2. **Shahid M Baba**, Arshad A Pandith, Zafar A Shah, Sajad A Geelani, Javid Rasool Bhat, Ayaz Gull, Sameer A Guru, Hamed A El-Serehy, Abid M Koul, Sheikh Mansoor. **GSTT1 null and rs156697 Polymorphism in GSTO2 Influence the Risk and Therapeutic Outcome of B-Acute Lymphoblastic Leukemia Patients.** *Frontiers in Oncology.* 2021. DOI: 10.3389/fonc.2021.714421. <https://pubmed.ncbi.nlm.nih.gov/34722260/>
3. **Shahid M Baba**, Zafar A Shah, Arshad A Pandith, Sajad A Geelani, Mohammad Muzaffar Mir, Javid Rasool Bhat, Ayaz Gull, Gul Mohammad Bhat. **Glutathione S-transferase gene polymorphic sequence variations: Association with risk and response to Imatinib among Chronic Myeloid Leukemia patients of Kashmir.** *International Journal of Laboratory Hematology.*2021. DOI: 10.1111/ijlh.13471. <https://pubmed.ncbi.nlm.nih.gov/33470551/>
4. Iqra Anwar, Arshad A Pandith, Hyder Mir, Usma Manzoor, Ina Amin, **Shahid M Baba**, Meena Godha, Aabid M Koul, Zafar A Shah, Sheikh Mansoor, Mohammad S Wani. **Implications of risk conferred by 5p15.33 loci genetic variants; human telomerase reverse transcriptase rs2736098 and rs2736100 in predisposition of bladder cancer.** *Rep Pract Oncol Radiother.* 2022;27(5):787-796. doi: 10.5603/RPOR.a2022.0082.  
<https://pubmed.ncbi.nlm.nih.gov/36523804/>
5. Tabasum Shafi, Roohi Rasool, Sakeena Ayub, Imtiyaz Rashid, Iffat H Shah, Showkat Hussain, Zaffar A Shah, **Shahid M Baba**, Rumana Makhdoomi, Adil Bashir. **Unveiling the TGF-B1 Paradox: Significant implication of TGF-B1 promoter variants and its mRNA & protein expression in atopic dermatitis.** *Molecular Immunology* 157 (2023) 214-224. doi: 10.1016/j.molimm.2023.04.006. <https://pubmed.ncbi.nlm.nih.gov/37084506/>
6. Taha A Qureshi, Afaq Hameed, Iqra Jan, Fizalah Kawoosa, **Shahid M Baba**, Ayaz Gull, Nusrat Kounsar, Roohi Rasool. **Clinical History Matters, Skin Prick Test (SPT) Results are Not the Be-All and End-All for Allergy Diagnosis.** *Frontiers in Medical Case Reports.* 2021. DOI: <http://dx.doi.org/10.47746/FMCR.2021.2410>  
[https://www.jmedicalcasereports.org/uploads/178/13188\\_pdf](https://www.jmedicalcasereports.org/uploads/178/13188_pdf).
7. Iqra jan, Taha Ashraf Qureshi, Fizalah Kawoosa, Afaq H Beigh, **Shahid M Baba** and Roohi Rasool. **LATEX: Bane or Boon in Health Care.** *J Allergy Ther, Vol.12 Iss.4 No:244.*  
<https://www.walshmedicalmedia.com/open-access/latex-bane-or-boon-in-health-care.pdf>
8. Javid A Magray, Arshad A Pandith, Iqbal Qasim, Muzzain Khateeb, ArifHameed, Aabid Koul, Zafar A Shah, **Shahid M Baba**, Sheikh Mansoor, Wafa Charifi, Ajaz Ahmad, Mohammad S Wani. **Significant Implications of APOA1 Gene Sequence Variations and Its Protein Expression in Bladder Cancer.** *Biomedicines.* 2021. DOI: 10.3390/biomedicines9080938

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8392831/>

9. **Shahid M Baba**, Arshad A Pandith, Zafar A Shah, Sajad A Geelani, Mohammad Muzaffar Mir, Javid Rasool Bhat, Gul Mohammad Bhat. **Impact of ABCB1 gene (c3435T/A2677G) polymorphic sequence variations on the outcome of patients with Chronic Myeloid Leukemia and Acute Lymphoblastic Leukemia in Kashmiri population: A case-control study.** *Indian Journal of Hematology and Blood Transfusion.*2020.DOI: 10.1007/s12288-020-01289-6cs. <https://pubmed.ncbi.nlm.nih.gov/33707832/>
10. Arshad A. Pandith, Iqbal Qasim, **Shahid M Baba**, Abid M Koul, Wani Zahoor, Dil Afroze, Adil Lateef, Usma Manzoor, Ina Amin, DheeraSanadhya, Rashid Bhat, Altaf Ur Ramzan, Fozia Mohammad, Iqra Anwar. **Favorable role of IDHI/2 mutations aided with MGMT promoter gene methylation in the outcome of patients with malignant Glioma.** *Future Science OA*, 2020, 10.2144/fsoa-2020-0057  
<https://pubmed.ncbi.nlm.nih.gov/33552543/>
11. Arshad A Padith, Zahoor A Wani, Iqbal Qasim, Dil Afroze, Usma Manzoor, Ina Amin, **Shahid M Baba**, Abid Koul, Iqra Anwar, Fozia Mohammad, Abdul R Bhat, Parveen Shah. **Association of strong risk of hTERT gene polymorphic variants to malignant Glioma and its prognostic implications with respect to different histological types and survival of Glioma cases.** *The Journal of Gene Medicine.* 2020. Doi.org/10.1002/jgm.3260  
<https://pubmed.ncbi.nlm.nih.gov/32783258/>
12. **Shahid M Baba**, Zafar A Shah, Khushboo Javaid, Arshad A Pandith, Javeed Rasool, Sajad A Geelani, Rafia A Baba, Shajrul Amin and Gul Mohammad. **Methylenetetrahydrofolate Reductase Gene C677T and A1298C Polymorphic Sequence Variations Influences the Susceptibility to Chronic Myeloid Leukemia in Kashmiri Population.** *Frontiers in Oncology*,2019. <https://pubmed.ncbi.nlm.nih.gov/31396477/>
13. **Baba SM**, Pandith AA, Shah ZA, Baba RA. **Pathogenetic implication of fusion genes in acute promyelocytic leukemia and their diagnostic utility.** *Clin Genet*, 2019;95(1):41-52.  
<https://pubmed.ncbi.nlm.nih.gov/29700805/>
14. **Shahid M Baba**, Zafar A Shah, Arshad A Pandith, Dil-Afroze, Aleem Jan, Khurshid A Mir, Sheikh A Aziz, Zahoor A Bhat. **Influence of bcr-3 PML-RAR $\alpha$  Transcript on Outcome in Acute Promyelocytic Leukemia Patients of Kashmir Treated with All-Trans Retinoic Acid and/or Arsenic Tri-Oxide.** *Cancer Genetics* 231–232 (2019) 14–21  
<https://pubmed.ncbi.nlm.nih.gov/30803552/>
15. Niyaz A Azad, Zafar A Shah, Arshad A Pandith, Roohi Rasool, Javed Rasool, **Shahid M Baba**, Shiekh A Aziz, Samoon Jeelani. **Analysis of ABL kinase domain mutations to evaluate imatinib resistance in Chronic Myeloid Leukemia patients of Kashmir.** *Meta Gene*, 2018:05.003. DOI: 10.1016/j.mgene.2018.05.003  
<https://www.sciencedirect.com/science/article/pii/S2214540018300537>
16. **Shahid M Baba**, Niyaz A Azad, Zafar A Shah, Dil-Afroze, Arshad A Pandith, Aleem Jan, Sheikh A Aziz. **P15ink4b loss of expression by promoter hypermethylation adds to leukemogenesis and confers a poor prognosis in Acute Promyelocytic Leukemia patients.** *Cancer Res Treat*, 2017;49(3):790-797. <https://pubmed.ncbi.nlm.nih.gov/28052659/>

17. **Baba SM**, Azad NA, Shah ZA, Afroze D, Pandith AA, Jan A, Aziz SA, Dar FA. **PHA-induced peripheral blood Cytogenetics and molecular analysis: A valid diagnostic and follow-up modality for acute promyelocytic leukemia patients treated with ATRA and/or arsenic tri-oxide.** *APJCP*, 2016; 17(4):1999-2006.  
<https://pubmed.ncbi.nlm.nih.gov/27221887/>
18. Niyaz A Azad, **Shahid M Baba**, Zafar A Shah, Roohi Rasool, Arshad A Pandith, Shiekh A Aziz, Javed Rasool and Fayaz A Dar. **Phytohemagglutinin-Induced Peripheral Blood Cytogenetics: A Valid Means for Diagnosis and Imatinib Therapy Monitoring of Chronic Phase Chronic Myeloid Leukemia Patients.** *Journal of cancer science and therapy*, 2015;7: 242-248.  
<https://pdfs.semanticscholar.org/86ee/777425c6dc558d6a988c65cb8ff81aaacd30.pdf>
19. Arshad A Pandith, Shahnawaz Akbar, Shehjar Faheem, Tahir M Malla, Maharukh H Zargar, Zafar A Shah, Adil Lateef, Iqbal Qasim, Fayaz A Dar, Niyaz A Azad and **Shahid Baba**. **Molecular and Cytogenetic Evaluation of Gender in Patients Born with Ambiguous Genitalia from Different Regions of the Valley of Kashmir, North India.** *Journal of genetic syndromes and gene therapy*, 2015;6;261.  
<https://www.longdom.org/open-access/molecular-and-cytogenetic-evaluation-of-gender-in-patients-born-with-ambiguous-genitalia-from-different-regions-of-the-valley-of-kashmir-north-india-2157-7412-1000261.pdf>
20. Arshad A Pandith, Shahnawaz A Sheikh, Shehjar Faheem, Mahrukh H Zargar, Tahir M Malla, Zafar A Shah, Adil Lateef, Iqbal Qasim, Niyaz A Azad, **Shahid M Baba** and Fayaz A Dar. **Identification of Unique Pattern of CFTR Gene Mutations in Cystic Fibrosis in an Ethnic Kashmiri Population (North India).** *Journal of genetic syndromes and gene therapy*, 2015;6;260. <https://www.longdom.org/open-access-pdfs/identification-of-unique-pattern-of-cftr-gene-mutations-in-cystic-fibrosis-in-an-ethnic-kashmiri-population-north-india-2157-7412-1000260.pdf>
21. Nissar S, **Baba SM**, Akhtar T, Rasool R, Shah ZA, Sameer AS. **RAD51 G135C gene polymorphism and risk of colorectal cancer in Kashmir.** *European journal of cancer prevention*, 2014; 23(4): 264-8. <https://pubmed.ncbi.nlm.nih.gov/24871558/>
22. **Shahid Mudasir Baba**, Aga Syed Sameer and Mushtaq A Siddiqi. **A case of primary amenorrhea with 46+XY genotype from Kashmir Valley.** *Indian journal of human genetics*, 2013; 19(3): 360-362. <https://pubmed.ncbi.nlm.nih.gov/24339555/>
23. Arshad A. Pandith, Tahir M. Malla, Fayaz A. Dar, Shahnawaz A. Sheikh, Qayser Yousuf, Shehjar Faheem, **Shahid M Baba**, Farhat Shawl, Niyaz A. Azad, Mushtaq A. Siddiqi, Zafar A. Shah. **Prevalence of various chromosomal disorders diagnosed in a selected population suspected of having genetic diseases from different regions of the valley of Kashmir, North India.** *The Nucleus*, 2013; 56(3): 197-204.  
<https://link.springer.com/article/10.1007/s13237-013-0098-0>
24. Syed Sameer A, Safiya Abdullah, Saniya Nissar, Roohi Rasool, **Shahid Mudasir Baba**, Mushtaq Siddiqi. **Helicobacter pylori in colorectal neoplasms of Kashmiri patients: What is the prevalence?** *Clinical cancer investigation journal*, 2012; 1(1): 23-25.  
[https://ccij-online.org/storage/files/article/ccij-ol0bleb3fkt4/ClinCancerInvestigJ\\_2012\\_1\\_1](https://ccij-online.org/storage/files/article/ccij-ol0bleb3fkt4/ClinCancerInvestigJ_2012_1_1)

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25. Sameer AS, Nissar S, Qadri Q, Alam S, **Baba SM**, Siddiqi MA. **Role of CYP2E1 genotypes in susceptibility to colorectal cancer in the Kashmiri population.** *Human Genomics*, 2011; 5(6): 530-537. <https://pubmed.ncbi.nlm.nih.gov/22155602/>
26. **Shahid M Baba**, Zafar A Shah, Arshad A Pandith, Javeed A Rasool, Sajad A Geelani, Zahoor A Bhat. **Hypermethylation of RARA P2 can be the driving force for the virulence of bcr-3 PML-RAR $\alpha$  fusion gene transcript in Acute Promyelocytic Leukemia.** *Oncogene*, 2023 (Under Review)

### Books

Genetic Variations in Acute Promyelocytic Leukemia patients” **Shahid M Baba**; Zafar A Shah, Lambert Academic Publishing; ISBN: 978-620- 2-09587-7

### Book Chapters

**Shahid M Baba.** Cytokine Gene Polymorphism and Cancer Risk: A Promising Tool for Individual Susceptibility and Prognostic Implications. *IntechOpen*, 2021, DOI: 10.5772/intechopen.99363. <https://www.intechopen.com/chapters/79804>

**Shahid M Baba.** Implications of BRCA1, BRCA2 genes in overall development and prognosis of breast cancer. *Springer*, 2021, DOI: 10.1007/978-981-19-0197-3\_5. [https://link.springer.com/chapter/10.1007/978-981-19-01973\\_5#:~:text=The%20presnc e%20of%20a%20BRCA,2006%3B%20Antoniou%20et%20al.](https://link.springer.com/chapter/10.1007/978-981-19-01973_5#:~:text=The%20presnc e%20of%20a%20BRCA,2006%3B%20Antoniou%20et%20al.)

### PERSONAL SKILLS

- Enthusiastic learner & problem solving attitude
- Able to work independently and in collaborations with being cooperative.
- Proficient oral and written communication skills developed to effectively confer scientific discussions in lab meetings and scientific presentations.
- Organized & effective leadership.

### REFREES

<p><b>Dr. Zafar A. Shah</b> Professor &amp; Head Dept. of Immunology &amp; Molecular Medicine. SKIMS, Srinagar Kashmir, INDIA Phone: +919419415278 email: <a href="mailto:zaffaramin@gmail.com">zaffaramin@gmail.com</a></p>	<p><b>Dr. Roohi Rasool</b> Professor Immunology &amp; Molecular Medicine SKIMS, Srinagar Kashmir, INDIA Phone: +919419077662 email: <a href="mailto:roohi_wani@yahoo.com">roohi_wani@yahoo.com</a></p>
<p><b>Dr. Arshad A Pandith</b> Associate Professor Advanced Centre for Human Genetics SKIMS, Srinagar, Kashmir, INDIA Phone: +917006755543 email: <a href="mailto:arshad.pandith@skims.ac.in">arshad.pandith@skims.ac.in</a></p>	<p><b>Dr. Sheikh Aejaaz Aziz</b> Professor &amp; EX-Head Medical Oncology SKIMS, Srinagar, Kashmir, INDIA Phone: +919419415365 email: <a href="mailto:arshaajiz@gmail.com">arshaajiz@gmail.com</a></p>

**Dr. Aleem Jan**

Professor  
Clinical Hematology  
SKIMS, Srinagar Kashmir, INDIA  
Phone: +919419081211  
email: [aleem\\_maleem@yahoo.co.in](mailto:aleem_maleem@yahoo.co.in)

**Dr. Abdul Rashid Lone**

Professor  
Medical Oncology  
SKIMS, Srinagar Kashmir, INDIA  
Phone: +919419046000  
email: [arlone@gmail.com](mailto:arlone@gmail.com)