Curriculum vitae

Dr. Mirza Sarwar Baig

Distinguished Scientist | Public Health Informatics | Bioinformatics | Virology
Assistant Professor
Centre for Virology, SIST, Jamia Hamdard, New Delhi-110062
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Professional Summary

Virologist and computational biologist with >10 years of experience spanning infectious disease research, molecular virology, NGS, RNA-Seq and DEG analysis, and data analytics. Expertise in viral-host interaction, RNAi-mediated gene editing, miRNA/ siRNA bioinformatics, and AI/ML applications in translational and epidemiology research. Demonstrated ability to integrate wet-lab biology with computational modelling for disease outbreaks, antiviral drug repurposing, and host–pathogen interaction studies. Experienced in public health-relevant research on HIV, Dengue and SARS-Coronaviruses, including viral pathophysiology, molecular diagnostics, and predictive modelling. Strong publication record (Q1/Q2 journals), fully-funded research experience (Indian Council of Medical Research), and interdisciplinary collaboration.

Core focus: Infectious disease informatics, outbreak analytics, predictive modelling, genomic epidemiology, and AI-driven health solutions. Skilled in diverse molecular techniques, including cell/tissue culture, gene cloning, Northern and Southern assays, quantitative and semiquantitative PCRs, and molecular biology experiment designing.

Research and Training Metrices

- Number of Publications: 30+
- Citations: 340+
- H-index and i10-index: 11 & 13
- Q1+ Q2 Publications: 20
- Cumulative Impact Factor: 75+
- Number of PG students' dissertations Guided: 18
- Number of PhD scholars Guiding: 02
- Number of presentations at National or International Conferences in India: 10
- Number of presentations at International Conferences outside India: 02
- Number of Publications in National/International Conferences: 15
- Training programme and seminar organised: 03
- Resource person in seminars and webinars: 03

Key Competencies and Skill-Sets

Public Health & Translational Research	Data Science & Informatics	Laboratory & Molecular Skills
▪ Host–pathogen interaction and pathophysiology ▪ Translational research & molecular diagnostics ▪ Viral genomics & molecular biology ▪ Infectious disease epidemiology & outbreak analysis	▪ Implementation of Machine & Deep Learning through Python ▪ Downstream NGS, RNA-Seq, DEG and Deep-Seq analysis Bioinformatics pipelines ▪ Statistical computing employing R and Python ▪ Data visualization & predictive modeling	▪ qPCR, RT-PCR, cloning, RNAi ▪ Cell and tissue culture & viral diagnostics ▪ Dot blot, Southern and Northern blotting ▪ Urea-PAGE, SDS-PAGE ▪ Molecular modelling, docking & dynamic simulation ▪ Immunoinformatics & Chemoinformatics

Professional Experiences

Assistant Professor – Centre for Virology, SIST, Jamia Hamdard **March 2023 to date.**

- Teaching theoretical and experimental classes of M.Sc. Medical Virology course
- Supervised postgraduate students' dissertation work in Molecular Biology, Bioinformatics, General Virology, RDT and virus-cell interaction.
- Arranged departmental Seminar in Viral Diagnostics, Genomic Techniques, and Vector Biology
- Assessment of students' subject knowledge through tests and assignments.
- Preparation of sessional and end-semester examination question papers.
- Maintaining student attendance through the UMS system.
- Invigilating and examining sessional and semester examination answer sheets.

Senior Research Associate (ICMR) – Jamia Hamdard **July 2019- July 2022**

• Actively participated in research conception, design, and execution to address defined problems.
• Maintaining detailed records of research findings and statistical analysis of data results.
• Conducted independent research to reach short- and long-term goals.
• Teaching graduate and postgraduate students Bioinformatics, virology, and life-science courses.
• Writing and communicating research, reviewing articles concerning key findings, and highlighting translational applications.

Guest Teacher – Jamia Hamdard **July 2019 to Dec 2021**

- Teaching theoretical and experimental classes on Bioinformatics in the Department of Botany (B.Sc. and M.Sc. courses)
- On-hand training on Molecular Modelling and Docking through AutoDock.
- Assessment of students' subject knowledge through tests and assignments.
- Examining sessional and semester examination answer sheets.

Guest Teacher - Jamia Millia Islamia **Oct 2010 – Nov 2013**

- Taught theoretical and practical sessions on the fundamentals of Bioinformatics and programming languages (C and Perl).
- Documentation of student attendance, grades, and other pertinent information.
- Evaluation of examination sheets for assessment of their performance
- Supervision of postgraduate students' dissertation works in Molecular Biology, Bioinformatics, and Genetic Transformation.
- Assisted students in their Project or Proposal writing, seminars, and discussions.

Education

- **Doctor of Philosophy (Virology)**, Jamia Millia Islamia, New Delhi, India **(2019)**
- **Master of Technology (Bioinformatics)**, Hamdard University, New Delhi, India **(2010)**
- **Master of Science (Biotechnology)**, Barkatullah University, Bhopal, India **(2008)**
- **PGDCA (Computer Science),** MCRPV University, Bhopal **(2006)**
- **Bachelor of Science (Hons)**, Magadh University, Patna **(2004)**

Research Grants and Funding

1. **Co-PI of the Indian Council of Medical Research (ICMR)** funded Project "System-level analysis of human microRNAs targeting viral envelope protein and replication-associated genes of Dengue virus and also elucidating the regulatory roles of these miRNAs in host membrane trafficking genes," **Ministry of Family and Welfare, Govt. of India** (July 2019- July 2022)

Awards and Recognitions

2. **NESA Distinguished Scientist Award-2025** for outstanding contributions in the field of **"Virology & Molecular Biology"** by NESA and India Science, Technology & Innovation, Govt. of India, New Delhi, India
3. **University Grant Commission (UGC)** fellowship by the **Govt. of India,** for PhD
4. **Best Poster Award (Multiple times in Conferences)**
5. **Winner of Essay competition** conducted by the **Ministry of Information & Broadcasting, Directorate of Field Publicity, Government of India** (Jul 1995)

Peer Review Publications

1. Zahid Khorshid Abbas, Anjana Singh, Mirza Sarwar Baig, Sulaiman Ali Alharbi, Yussri M Mahrous, Naif Abdulrhman Zabin Alnefiei, Moawia Mukhtar Hassan, M Nasir Khan, Zahid Hameed Siddiqui, Md Salik Noorani **(2026).** Detection and Characterization of an Isolate of Cucumber Mosaic Virus Infecting Catharanthus roseus Using Deep Sequencing. Phyton-International Journal of Experimental Botany **(Impact Factor- 1.2)**
2. Moonis, M., **Baig, M.S.,** Vohora, D., Haque, S.E. **(2026).** In silico and in vivo investigation of rotundic acid for its effect on cyclophosphamide-induced cardiotoxicity in Swiss albino mice; targeting TLR4/NF-κB/cleaved caspase-3. ***Iranian Journal of Basic Medical Sciences*** **(Impact Factor- 3.4)**
3. Ansari, H.K., Alisha, **Baig, M.S.** *et al.* **(2026).** Identification and validation of natural dengue virus NS1 inhibitors with promising antiviral potential. ***Mol Divers*****.** https://doi.org/10.1007/s11030-025-11447-5 **(Impact Factor- 3.9)**
4. Ibrahim, N.A., Sherfi, H.A., Azam, F., **Baig, M.S.** *et al.* **(2026).** Arugula-derived isothiocyanates as novel agents for a potential regulator of AKR1B10 protein in breast cancer: an integrated transcriptomic and molecular docking approach. ***Naunyn-Schmiedeberg's Arch Pharmacol*****.** https://doi.org/10.1007/s00210-025-04883-5 **(Impact Factor- 3.1)**
5. Fatima, N., **Baig, M.S.,** Rizvi, A.H. *et al.* (2025) Profiling HIV-1-host protein–protein interaction networks in patient-derived exosome proteins: impact on pathophysiology and innate immune pathways. ***Virology Journal*** **22**, 259. https://doi.org/10.1186/s12985-025-02717-7 **(Impact Factor- 3.8)**
6. Zahid Khorshid Abbas, Anjana Singh, Md Salik Noorani, **Baig M.S**, et al., **(2025).** Molecular Characterization and Genetic Diversity of Broad Bean Wilt Virus 2 (BBWV-2) from Catharanthus roseus. ***ACS Omega***, DOI: 10.1021/acsomega.5c04600 **(Impact Factor- 4.0)**
7. Kumar M, **Baig M.S***, Bhardwaj K **(2025)**. Advancements in developing antivirals against SARS-Coronavirus. ***Front Cell Infect Microbiol.*** 15:1520811. **doi: 10.3389/fcimb.2025.1520811.** (**Impact Factor- 4.6)**
8. Awadelkareem AM, Elkhalifa AEO, Adnan M, Kuddus M, Khan MI, Sachidanandan MK, Ashfaq F, **Baig M.S,** Ashraf SA **(2025).** Deciphering the Intricacies of Breast Cancer Signaling Network and the Potential of Soy-derived Isoflavones on Cancer Therapeutics. **Pharmacognosy Magazine** (**Impact Factor- 0.9)** https://doi.org/10.1177/09731296251322233
9. K Noor, NR Sharma, **Baig M.S** (2025) Phylogenomics and genetic recombination detection among Matrix protein of Chandipura Virus genome: A computational approach. ***International Journal of Advance Research and Innovation,*** 13(01): 2347-3258. **https://doi.org/10.51976/zbve5y64**
10. Roshanara; Tandon R; **Baig M.S;** Das S; Srivastava R; Puri N; Nakhasi HL; Selvapandiyan A**. (2024)** Identifying Rab2 Protein as a Key Interactor of Centrin1 Essential for *Leishmania donovani* Growth. ***ACS Infectious Diseases*****,** 10, 9, 3273–3288. https://doi.org/10.1021/acsinfecdis.4c00351 **(Impact Factor- 4.1)**
11. N Veena Rani, **Baig MS,** Bharti Pathak, Neera Kapoor and Anuja Krishnan **(2024).** Mutation of conserved histidine residues of Dengue virus envelope protein impairs viral-like particle maturation and secretion. ***Biochimica et Biophysica Acta (BBA) - Molecular Cell Research,*** https://doi.org/10.1016/j.bbamcr.2024.119682 (**Impact Factor- 5.1**)
12. Elkhalifa AEO, Al-Shammari E, Kuddus M, Adnan M, Sachidanandan M, Awadelkareem AM, Qattan MY, Khan MI, Abduljabbar SI, **Baig MS**, Ashraf SA **(2023)**. Structure-Based Multi-Targeted Molecular Docking and Dynamic Simulation of Soybean-Derived Isoflavone Genistin as a Potential Breast Cancer Signaling Proteins Inhibitor. ***Life (Basel)***. Aug 13;13(8):1739. https://doi.org/10.3390/life13081739**. (Impact Factor- 3.2)**
13. **Baig MS*,** Deepanshu, Prakash P, Alam P and Krishnan A **(2023).** *In silico* analysis reveals Hypoxia-induced miR-210-3p specifically targets SARS-CoV-2 RNA. ***Journal of Biomolecular Structure & Dynamics***, https://doi.org/10.1080/07391102.2023.2175255 **(Impact Factor- 4.4)**
14. Noorani MS, **Baig MS,** Khan JA, Alam P **(2023)** Whole genome characterization and diagnostics of prunus necrotic ringspot virus (PNRSV). ***Nature-Scientific Reports*** 16;13(1):4393. **doi: 10.1038/s41598-023-31172-z**. **(Impact Factor- 4.9)**
15. Kavita Vats, Rati Tandon, Roshanara, Mirza.A. Beg, Rosa M. Corrales, Akila Yagoubat, Enam Reyaz, Tasaduq.H. Wani, **Baig MS,** Ashok Chaudhury, Anuja Krishnan, Niti Puri, Poonam Salotra, Yvon Sterkers, Angamuthu Selvapandiyan **(2023)** Interaction of novel proteins, centrin4 and protein of centriole in Leishmania parasite and their effects on the parasite growth, ***Biochimica et Biophysica Acta (BBA) - Molecular Cell Research,*** 1870 (3), 119416, https://doi.org/10.1016/j.bbamcr.2022.119416 (**Impact Factor- 5.1**)
16. Altamish M, Khan M, **Baig M.S,** Pathak B, Rani V, Akhtar J, Khan A., Ahmad S, and Krishnan A, **(2022).** Therapeutic potential of medicinal plants against dengue infection: A Mechanistic viewpoint. ***ACS Omega***, https://doi.org/10.1021/acsomega.2c00625 **(Impact Factor- 4.132)**
17. Yadav V, Krishnan A, **Baig M.S,** Majeed M, Nayak M and Vohora D **(2022).** Decrypting the interaction pattern of Piperlongumine with calf thymus DNA and dodecamer d(CGCGAATTCGCG)2 B-DNA: Biophysical and

molecular docking analysis. ***Biophysical Chemistry***, 285, 106808, **https://doi.org/10.1016/j.bpc.2022.106808** (**Impact Factor- 2.352**)

18. Syed Amir Ashraf, Abd Elmoneim O. Elkhalifa, Khalid Mehmood, Mohd Adnan, Mushtaq Ahmad Khan, Nagat Elzein Eltoum, Anuja Krishnan, and **Baig M.S* (2021).** Multi-targeted molecular docking, pharmacokinetics and drug-likeness evaluation of okra-derived natural ligand abscisic acid targeting signaling proteins involved in the development of diabetes**.** ***Molecules*** 26(19), 5957, **https://doi.org/10.3390/molecules26195957** (**Impact factor- 4.411**)
19. **Baig M.S,** and Krishnan A **(2021).** A bioinformatics approach to investigate serum and hematopoietic cell-specific therapeutic microRNAs targeting the 3' UTRs of all four Dengue virus serotypes. ***Pathogens and Disease***. **DOI: 10.1093/femspd/ftab050** (**Impact factor- 3.166**)
20. **Baig M.S**, Reyaz E, Selvapandiyan A, and Krishnan A **(2021).** Differential binding of SARS-CoV-2 Spike protein variants to its cognate receptor hACE2 using molecular modeling-based binding analysis. ***Bioinformation.*** 17(2): 337-347. **DOI: 10.6026/97320630017337 (Impact factor- 1.9**)
21. **Baig M.S**, Akhtar S, Khan JA **(2021).** Engineering tolerance to CLCuD in transgenic *Gossypium hirsutum* cv. HS6 expressing *Cotton leaf curl Multan virus* - *C*4 intron hairpin. ***Scientific Reports*** 11:14172. **https://doi.org/10.1038/s41598-021-93502-3 (Impact factor- 4.379)**
22. Akmal M, **Baig M.S,** Khan JA **(2017).** Suppression of cotton leaf curl disease symptoms in *Gossypium hirsutum* through overexpression of host-encoded miRNAs. ***Journal of Biotechnology*** 263: 21-29 **DOI: 10.1016/j.jbiotec.2017.10.003 (Impact factor- 3.307)**
23. Alam P, Abdin MZ, Ahmad N, **Baig MS**, Sharaf-Eldin MA, Elkholy SF **(2017).** Functional characterization of cytochrome P450 variant (CYP71) isolated from *Artemisia annua* L. Plants- *International Journal of Pharmaceutical Research and Allied Sciences.* 5(4):36-50 (**Impact factor- N/A**)
24. **Baig M.S,** Khan JA **(2013).** Identification of *Gossypium hirsutum* miRNA targets in the genome of *Cotton leaf curl Multan virus* and beta satellite. *Indian J. Biotechnol.* 12:336-342 **(Impact factor- 0.414)**

Publications In International Conferences/Digital Article

1. **Baig M.S,** Shweta, Khan JA **(2011).** Computational analysis of cotton miRNAs targeting genome of *cotton leaf curl Multan virus* and associated satellite DNA. *J Nat Sc Biol Med.* 2(3): 33 (**Impact score 0.67)**
2. Ahmad J, **Baig M.S,** Qureshi I, Taj G **(2011).** *In silico* structural analysis of *Brassica Juncea* Sequence containing kinase-specific domain. *J Nat Sc Biol Med.* 2(3): 47 (**Impact score 0.67)**
3. **Published digital article, "HMPV is a silent threat to respiratory health", published by https://360info.org/ and https://www.newslaundry.com/2025/01/23/hmpv-is-a-silent-threat-to-respiratory-health on** 23 Jan, 2025

Published Chapters

1. **Baig M.S*,** Aman Haidar Rizvi, Sanchit Varma, Kaify Ghaus, Alisha Arzoo, Saloni and Mohammad Anas **(2025).** Trends in Meningitis Prevalence and the Need for Molecular Diagnosis. In: Arya, A., Ansari, M.A. (eds) Molecular Diagnostics for Viral Diseases. Medical Virology: From Pathogenesis to Disease Control. Springer, Singapore. https://doi.org/10.1007/978-981-96-7097-0_8
2. Kashif M, Danishuddin, **Baig M.S**, Subbarao N **(2025).** Current Scenario and Future Prospective of Drug Discovery & Development against Bacterial Enzymes. Eds. Munishwar Nath Gupta, Punit Kaur and Priyanka Sharma Academic Press. 21-40. eBook ISBN: 978-0-443-22222-1
3. **Baig MS** and Khan JA. **(2021).** Small RNA-mediated begomoviral resistance in plants: Micro in size but mega in function in Plant Virus-Host Interaction (Second Edition), Eds. Gaur RK, Sharma P, Paul Khurana SM, and Hohn T. Academic Press. 383-417. **eBook ISBN: 9780128244838**
4. **Baig MS**, Keservani RK, Ahmad MF, and Baig ME **(2017).** Smart Delivery of Nanobiomaterials in Drug Delivery, Nanobiomaterials Applications in Drug Delivery, Eds. Sharma AK, Keservani RK, and Kesharwani RK. Apple Academic Press, New York. **ISBN: 9781774636442**
5. **Baig MS**, Keservani RK, and Sharma AK. **(2016).** RNA Sequencing and Gene Expression Regulation, Computational Biology and Bioinformatics: Gene Regulation, Ed. Ka-Chun Wong, CRC Press, USA, 71-105. **ISBN: 9780367782979**
6. **Baig MS** and Keservani RK. **(2016).** Effect of Green Coffee Bean Extracts on Nrf2/ARE Pathway, Green Coffee Bean Extract in Human Health, Eds. Bagchi D, Moriyama H and Swaroop A. CRC Press, USA, 191-215. **eBook ISBN: 9781315371153**

Professional Service

Editorial Member International Journal of Virus Studies (E-ISSN: 3049-1924**)**
https://journals.stmjournals.com/editorial-board/ijvs/

Reviewer

RSC Medicinal Chemistry (2024)
PLOS One (2024)
ACS Omega (2024)
Complementary Therapies in Medicine (2022-2023)
Journal of Natural Fibres (2022-2023)
Journal of Food Biochemistry (2023-2024)
Canadian Journal of Infectious Diseases and Medical Microbiology (2023-2024)
Ageing (2023-2024)

Invited lectures and Webinars

1. Invited lecture and Resource person on **"Computer Science and Biology: impact of bioinformatics and molecular biology on Drug Discovery"** in AICTE Training and Learning (ATAL) academy online elementary FDP from 04/10/2021 to 08/10/2021 at College of Engineering & Technology, IILM academy of higher learning.
2. Invited lecture on **"Expectations of Evaluators of the funded research project and what to target"** at a one-week ISTE-approved Short-Term Training Program (STTP) on "Insights & Methodologies towards Research & Research Outcomes" organized by the Department of Computer Engineering, St. Francis Institute of Technology (SFIT), Mumbai, held on June 26 2021.

Oral & Abstract Presentation

1. Ali T, **Baig M.S,** Selvapandiyan A (2025). Comparative Structural Analysis of Human and Leishmania NDKs for Therapeutic Targeting against Visceral Leishmaniasis, presented in the International Conference on Recent Trends in Biosciences and Technology, Galgotia University, Greater Noida, UP
2. Kumar M, **Baig M.S**, Bhardwaj K (2025) Pharmacophore modelling and ADMET analysis of Potent Inhibitors identified through High-Throughput in-silico screening against SARS-CoV-2 NSP15: Antiviral Therapeutics, Presented in BioConverge 2025: International BioE3 Conference at Manav Rachna International Institute of Research and Studies (MRIIRS), Faridabad, Haryana
3. Fatima N, Sharma M, Rizvi AH, **Baig MS**, Selvapandiyan A, Ansari MA (2023) Bioinformatics approaches uncovering HIV1-human interactions via proteomic data inter and intra-PPI networks. Abstract published and Poster presented in the International Seminar on Recent Advancements in Chemical and Life Sciences, organised by the Department of Chemistry, Jamia Hamdard, New Delhi-110062, October 26, 2023. (**Got the first best poster award.)**
4. Khan A, Arzoo A, **Baig MS**, and Ansari MA (2023). Analysing HIV-1 patient serum-derived exosome and their effects on signal pathways. Abstract published in International Seminar on Recent Advancements In Chemical And Life Sciences, organised by the Department of Chemistry, Jamia Hamdard, New Delhi-110062, October 26, 2023
5. **Baig MS,** Krishnan A **(2019)** Identification of potential human miRNAs targeting 3' and 5' UTRs of Dengue viruses. Abstract published in National Workshop on Big Data and Artificial Intelligence in Biotechnology and Health Care, Amity University and EMBL-EBI, September 23-26, 2019.
6. **Baig MS**, Sadia Akhtar, Jawaid A. Khan **(2018)** Silencing suppressor gene-based hpRNAi construct causes non-appearance of phenotypic symptoms of Cotton leaf curl disease in *Gossypium hirsutum*. Abstract published in National Conference on Bio-intensive Approaches in Plant Protection and their Socio-economic Impacts, Department of Plant Protection, Aligarh Muslim University, October 29-30, 2018.
7. **Baig MS,** Sadia Akhtar, M. Akmal, Jawaid A. Khan **(2017)** Silencing of symptom suppressor gene of CLCuV infecting *Gossypium hirsutum.* Abstract published in the National Seminar on Recent Advances in Environmental Toxicology. Jamia Millia Islamia, Feb 13-14, 2017
8. **Baig MS**, Zainul A. Khan and Jawaid A. Khan **(2014).** Investigating miRNA targets against cotton leaf curl virus. Poster presented in National Conference on Science of Omics for Agricultural Productivity: Future Perspectives, G. B. Pant University of Agriculture & Technology, Pantnagar. March 4-6, 2014
9. **Baig MS,** Zainul A. Khan and Jawaid A. Khan **(2013).** Identification of miRNAs targeting the Intergenic region of the Cotton leaf curl virus. Poster presented at the Asia-Pacific Congress of Virology. Virocon- Amity University Noida December 17-20, 2013
10. Naveed Ahmad, **Baig MS**, M. Z. Abdin, and Pravej Alam **(2012).** Computational identification and characterization of miRNAs from Medicinal Plants Abstract published in 4th Bioinformatics Conference-cum-workshop on Application of Bioinformatics in Drug Discovery and Development, organized by Hamdard University, New Delhi, October 19-20, 2012
11. **Baig MS (2011)** Computational analysis of cotton miRNAs targeting genome of *cotton leaf curl Multan virus* and associated satellite DNA. Oral presentation in the International Interdisciplinary Science Conference on

Bioinformatics, organized by Center for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, Nov 15 - 17, 2011

12. Shweta, **Baig MS** and Jawaid A. Khan **(2011).** *In silico* analysis of cotton (*Gossypium hirsutum*) microRNAs against *cotton leaf curl Burewala virus*. Abstract published in National Conference on Advancement in Convergence of Technology (ISBN: 978-81-8424-705-3) organized by Amity School of Engineering & Technology and Amity Institute of Biotechnology, Haryana, Sep 8-9, 2011.

Capacity building program/FDPs attended/organized

1. 7-day on-hand training on Genomics, Proteomics, Drug Design and high-performance computing – Workshop organized by Supercomputing Facility for Bioinformatics & Computational Biology (SCFBio), Indian Institute of Technology, New Delhi, September 30 - October 6, 2009
2. 3-day National Conference cum Workshop on High-Performance Computing and Applications (HPCA-2009) - organized by Department of Computer Science & Engineering, Banaras Hindu University (BHU), Varanasi, Feb 9 - 11, 2009
3. 5-day National Workshop on Computation for Biomedicine and Healthcare at the Indraprastha Institute of Information Technology (IIIT) Delhi, 10-14 December 2018
4. 3-day Training program on "Data Analytics using R and Hadoop" at the TERI School of Advanced Studies (TERI SAS), Department of Natural Resources and Department of Policy Studies, New Delhi, from October 8, 2018.
5. 4-day National Workshop on Big Data and Artificial Intelligence in Biotechnology and Health Care, Amity Institute of Biotechnology in association with Ensembl EMBL-EBI, UK, Amity University, September 23-26, 2019.
6. Certificate of Completion of 3 Days IEDB Virtual User Workshop, Presented via Zoom by the La Jolla Institute for Immunology, San Diego, California, USA, November 1-3, 2023
7. Attended one month of the international workshop on Data Science and Machine Learning for Bioinformatics with "R" from February 19 to March 18 2022
8. Organized a Seminar on "Vascular microtissues and disease modelling using 3D bioprinting technology" held on March 3 2023, at the Centre for Virology
9. Organized a Seminar on "Bench to Bedside: Auto 2D gel electrophoresis and INTELLIFLEX" held on March 16, 2023, at the Centre for Virology

Personal Information

Father's Name:	Mr. Mirza Hussain Baig	Nationality:	Indian
Marital Status:	Married	Languages:	Urdu, Hindi, and English
Gender:	Male	Year of Birth:	1982

Declaration

I declare that the information above is complete and correct to the best of my knowledge.

Dr. Mirza Sarwar Baig