

# Curriculum Vitae

## Aftab Alam

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### CURRENT POSITION

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Working as a **Postdoctoral Researcher** at the **Memorial Sloan Kettering Cancer Center (MSKCC)**, New York (USA) (Feb-2022-Present)

### RESEARCH INTERESTS

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- Multi-omics Data Integration
- Drug Designing and Development
- Immunoinformatics
- Structure-Based Bioinformatics
- Personalized Medicine
- Network and Systems Biology

### ACADEMIC QUALIFICATION

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- **Ph.D.** (2021), Centre for Interdisciplinary Research in Basic Sciences, JMI University, New Delhi, India.
- **M.Phil** (2015), Centre for Interdisciplinary Research in Basic Sciences, JMI University, New Delhi, India.
- **Master of Science** (2013), Bioinformatics, Jamia Millia Islamia University, New Delhi, India
- **Bachelor of Science** (Hon.) (2010) Chemistry, Aligarh Muslim University, India.

### PROJECTS/GRANTS AWARDED

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- **"Senior Research Fellow (SRF)"** Indian Council of Medical Research, New Delhi, India. (2019)
- **"Young Scientist"** Fellowship from Department of Health Research (DHR), Ministry of Health and Family Welfare, Government of India. (2019--2021)

### SCIENTIFIC SOCIETIES

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- Life member of **"Bioinformatics and Drug Discovery Society (BIDDS17-133)"**, India.

### PUBLICATIONS

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- **Aftab Alam**, Hala Abubaker Bagabir, Armiya Sultan, Mohd Faizan Siddiqui, Nikhat Imam, Mustafa F Alkhanani, Ahmad Alsulimani, Shafiu Haque and Romana Ishrat. "An Integrative Network Approach to Identify Common Genes for the Therapeutics in Tuberculosis and Its Overlapping Non-Communicable Diseases" **Frontiers in Pharmacology**, (2022), DOI: [10.3389/fphar.2021.770762](https://doi.org/10.3389/fphar.2021.770762).
- **Aftab Alam**, Arbaaz Khan, Nikhat Imam, Mohd Faizan Siddiqui, Mohd Wasim, Md. Zubair Malik and Romana Ishrat. "Design of an Epitope-Based Peptide Vaccine against the Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2): A Vaccine Informatics Approach." **Briefings in Bioinformatics**, (2021). DOI: [10.1093/bib/bbaa340](https://doi.org/10.1093/bib/bbaa340).
- **Aftab Alam**, Nikhat Imam, Mohd Faizan Siddiqui, Md Kaiser Ali, Mohd Murshad Ahmed, and Romana Ishrat. "Human Gene Expression Profiling Identifies Key Therapeutic Targets in Tuberculosis Infection: A Systematic Network Meta-Analysis" **Infection, Genetics and Evolution**, (2021). DOI: [10.1016/j.meegid.2020.104649](https://doi.org/10.1016/j.meegid.2020.104649).

- Yang, Xinjun, **Aftab Alam**, Naiyar Iqbal, and Khalid Raza. "Repurposing of FDA-Approved drugs to predict new inhibitors against key regulatory genes in Mycobacterium Tuberculosis". **Biocell**, (IF=1.25), (2021). DOI: [10.32604/biocell.2021.017019](https://doi.org/10.32604/biocell.2021.017019)
- Nikhat Imam, **Aftab Alam**, Mohd Faizan Siddiqui, Mohd Murshad Ahmed, Md. Zubair Malik, Md. Jawed Iqbal Khan and Romana Ishrat. "Identification of key regulators in parathyroid adenoma using an integrative gene network analysis." **Bioinformation**, (2020), DOI: [10.6026/97320630016900](https://doi.org/10.6026/97320630016900).
- Mohd. Amir, **Aftab Alam**, Romana Ishrat, Mohamed F. Alajmi, Afzal Hussain, Md. Tabish Rehman, Asimul Islam, Faizan Ahmad, Md. Imtaiyaz Hassan, and Ravins Dohare; "A Systems View of the Genome Guardians: Mapping the Signaling Circuitry Underlying Oligonucleotide/Oligosaccharide-Binding Fold Proteins". **OMICS A Journal of Integrative Biology** (2020). DOI: [10.1089/omi.2020.0072](https://doi.org/10.1089/omi.2020.0072).
- **Aftab Alam**, Mohd Faizan Siddiqui, Nikhat Imam, Rafat Ali, MD. Mushtaque, and Romana Ishrat. "Covid-19: current knowledge, disease potential, prevention, and clinical advances." **Turkish Journal of Biology** (2020). DOI: [10.3906/biy-2005-29](https://doi.org/10.3906/biy-2005-29).
- **Aftab Alam**, Nikhat Imam, Mohd M. Ahmed, Safiya Tazyeen, Naaila Tamkeen, Anam Farooqui, Md Zubair Malik and Romana Ishrat. "Identification and Classification of Differentially Expressed Genes and Network Meta-Analysis Reveals Potential Molecular Signatures Associated with Tuberculosis." **Frontiers in Genetics: Computational Genomics** (2019). DOI: [10.3389/fgene.2019.00932](https://doi.org/10.3389/fgene.2019.00932).
- Nikhat Imam, **Aftab Alam**, Rafat Ali, Mohd Faizan Siddiqui, Sher Ali, Md Zubair Malik, and Romana Ishrat. "In silico characterization of hypothetical proteins from Orientia tsutsugamushi str. Karp uncovers virulence genes." **Heliyon** (2019). DOI: [10.1016/j.heliyon.2019.e02734](https://doi.org/10.1016/j.heliyon.2019.e02734).
- M.Mehmankhah, R. Bhat, MS Anvar, Shahnawaz Ali, **Aftab Alam**, Anam Farooqui, Fatima Amir, Ayesha Anwer, Saniya Khan, Iqbal Azmi, Rafat Ali, Romana Ishrat, Md. Imtaiyaz Hassan, Zarrin Minuchehr, and Syed Naqui Kazim. "Structure-Guided Approach to Identify Potential Inhibitors of Large Envelope Protein to Prevent Hepatitis B Virus Infection." **Oxidative Medicine and Cellular Longevity-Hindawi** (2019). (IF = 6.50), DOI: [10.1155/2019/1297484](https://doi.org/10.1155/2019/1297484).
- Md.K.Siddiqui, Parvez Alam, Tabish Iqbal, Nabeela Majid, Sadia Malik, **Aftab Alam**, Mohd Rehan Ajmal, Vladimir N. Uversky, and Rizwan Hasan Khan. "Elucidating the inhibitory potential of designed peptides against amyloid fibrillation and amyloid associated cytotoxicity." **Frontiers in Chemistry** (2018). DOI: [10.3389/fchem.2018.00311](https://doi.org/10.3389/fchem.2018.00311).
- Anam Farooqui, Safia Tazyeen, Mohd Murshad Ahmed, **Aftab Alam**, Shahnawaz Ali, Md Zubair Malik, Sher Ali, Romana Ishrat "Assessment of the key regulatory genes and their Interologs for Turner Syndrome employing network approach." **Scientific reports** (2018). DOI: [10.1038/s41598-018-28375-0](https://doi.org/10.1038/s41598-018-28375-0).
- **Aftab Alam**, Naaila Tamkeen, Nikhat Imam, Anam Farooqui, Mohd Murshad Ahmed, Safia Tazyeen, Shahnawaz Ali, Md Zubair Malik, Romana Ishrat "Pharmacokinetics and Molecular Docking studies of Plant-Derived Natural Compounds to Exploring Potential Anti-Alzheimer Activity." **In silico Approach for Sustainable Agriculture** (2018). DOI: [10.1007/978-981-13-0347-0\\_13](https://doi.org/10.1007/978-981-13-0347-0_13).
- **Aftab Alam**, Nikhat Imam, Shahnawaz Ali, Md Zubair Malik and Romana Ishrat "Recent trends in ZikV research: A step away from a cure." **Biomedicine & Pharmacotherapy** (2017). (IF = 6.53), DOI: [10.1016/j.biopha.2017.05.045](https://doi.org/10.1016/j.biopha.2017.05.045).
- **Aftab Alam**, Shahnawaz Ali, Shahzaib Ahamad, Md Zubair Malik, Romana Ishrat "From ZikV genome to vaccine: in silico approach for the epitope-based peptide vaccine against Zika virus envelope glycoprotein". **Immunology-Wiley** (2016). DOI: [10.1111/imm.12656](https://doi.org/10.1111/imm.12656).