

Curriculum Vitae

Dr. Romana Ishrat

Professor (Computer Science)

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❖ Employment Profile

- **Professor** (April 26, 2023 to contd.)
Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia
- **Associate Professor** (January 15, 2019 to April 26, 2023.)
Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia
- **Assistant Professor** (January 15, 2007 to January 14, 2019)
Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia
- **Lecturer** (Aug, 2004 to January 15, 2007)
Department of Computer Science, Jamia Millia Islamia.

❖ Academic Qualifications

- **Ph.D (Computer Science)** 2011
Department of Computer Science, Jamia Millia Islamia
- **Master of Computer Applications (MCA)** 2004
Department of Computer Science, Jamia Millia Islamia
- **B.Sc.(Hons)** 2001
Department of Physics, Jamia Millia Islamia

❖ Areas of Research

Bioinformatics and Computational Biology

Our research group is focused on the inter-disciplinary areas of Computational Genomics, Bioinformatics, Biological Networks & Systems Biology, Immunoinformatic & Applications of Machine Learning. Our aim is to integrate computational and analytical approaches adopted in diverse kindling of sciences to find solutions. We are currently working on the core area of Computational and Systems Biology with future emphasis on the study of complex systems.

❖ **Teaching Experience: 19 years**

• **Courses Taught at Postgraduate Level:**

- M. Sc Biophysics
- Pre-PhD course
- M. Phil in Interdisciplinary Science
- Integrated M. Sc. in Biotechnology and Bioinformatics

1. Programming with Python
2. R Programming
3. Research Methodology
4. Computational Methods in Bioinformatics
5. Programming and Bioinformatics
6. Computer Programming in C
7. Programming in Perl
8. Fundamentals of Computing for Bioinformatics
9. Object-Oriented Programming

• **Courses Taught at Undergraduate level:**

- B.Sc. Life Sciences with Computer Applications
- B.Sc Biotechnology
- B.Sc (General)

1. Programming with Python
2. Concepts of Programming
3. Bioinformatics
4. Programming and Algorithmic
5. Data Structures and Program Design
6. Applied Operating Systems
7. Network Technologies and Internet Applications
8. Computer Fundamentals
9. Object-Oriented Programming
10. Database Management and Data Mining
11. Computer Networks

❖ **PhD Thesis Supervision**

- PhD thesis supervised: **8**
- PhD students registered (Ongoing): **5**

❖ **M.Phil thesis supervised: 5**

❖ **Dissertation Supervised at Post-graduate level: 45**

❖ **Books Published**

- Romana Ishrat (Editor), “**Biological Networks in Human Health and Disease**” Springer Nature Singapore Pte Ltd, ISBN 978-981-99-4241-1 (<https://doi.org/10.1007/978-981-99-4242-8>), Oct,2023(Book)

- Aftab Alam, Nikhat Imam and **Romana Ishrat**” Zika Virus: Therapeutics, Vaccines and Human Health" LAP LAMBERT Academic Publishing (October 3, 2017),(ISBN-13: 978-6202054010) (Book)

❖ **Book Chapters Published**

- Rafat Ali, Mohd Adil, Armiya Sultan, Nida Jamil Khan and **Romana Ishrat**, “Nanotechnology, Drug Delivery and Prospects in Precision Medicine”, Precision Medicine and Human Health pp.262-510, Bentham Science Publishers, 2024.
- Alam, Aftab, Naaila Tamkeen, Nikhat Imam, Anam Farooqui, Mohd Murshad Ahmed, Safia Tazyeen, Shah Nawaz Ali, Md Zubair Malik, and **Romana Ishrat**. "Pharmacokinetic and Molecular Docking Studies of Plant-Derived Natural Compounds to Exploring Potential Anti-Alzheimer Activity." In Silico Approach for Sustainable Agriculture, pp. 217-238. Springer, Singapore, 2018.
- M Ali, S Ali, **R Ishrat**." **In Silico Biochemical Pathways for Bacterial Metabolite Synthesis**". In Silico Approach for Sustainable Agriculture, pp. 217-238. Springer, Singapore, 2018

❖ **Publications**

1. Najma Khan, Anam Farooqui, **Romana Ishrat**, “Turner Syndrome, where are we?”, Orphanet J Rare Dis. 19(1):314, <https://doi.org/10.1186/s13023-024-03337-0>, Aug 2024
2. Anam Farooqui, Naaila Tamkeen, Safia Tazyeen, Sher Ali & **Romana Ishrat**, “System biology approach to delineate expressional difference in the blood mononuclear cells between healthy and Turner syndrome individual” Egyptian Journal of Medical Human Genetics 25(1), DOI: 10.1186/s43042-024-00491-9, Feb 2024
3. Hayat S, **Ishrat R**,” Exploring potential genes and pathways related to lung cancer: a graph theoretical analysis.”, Bioinformation. 19(9):954 DOI: 10.6026/97320630019954, Oct, 2023
4. Hayat S, & **Ishrat R**, “State of the Art: Nipah virus”, Scope, Sept, ISSN 11775661(O) 11775653 (P). 2023
5. Tamkeen N, Farooqui A, Alam A, Najma, Tazyeen S, Ahmad MM, Ahmad N, **Ishrat R**. “Identification of common candidate genes and pathways for Spina Bifida and Wilm's Tumor using an integrative bioinformatics analysis”. J Biomol Struct Dyn. doi: 10.1080/07391102.2023.2199080. 2023 Apr 13 IF= 5.235
6. Ali, Rafat & Sultan, Armiya & **Ishrat, Romana** & Haque, Shafiul & Khan, Nida & Prieto, Miguel. (2023). “Identification of New Key Genes and Their Association with Breast Cancer Occurrence and Poor Survival Using In Silico and In Vitro Methods”. Biomedicines. 11. 1271. 10.3390/biomedicines11051271. April 2023 IF= 4.757
7. Nikhat Imam, Aftab Alam, Mohd Faizan Siddiqui, Akhtar Veg, Sadik Bay, Md Jawed Ikbal Khan, **Romana Ishrat**, Network-medicine approach for the identification of

genetic association of parathyroid adenoma with cardiovascular disease and type-2 diabetes, *Briefings in Functional Genomics*, Feb 2023, <https://doi.org/10.1093/bfpg/elac054> IF- 4.241

8. Khan M, Khan S, Lohani M, Ahmed MM, Sharma D, **Ishrat R**, Ahmad S, Sherwani S, Haque S, Bhagwath SS. Assessment of key regulatory genes and identification of possible drug targets for Leprosy (Hansen's disease) using network-based approach. *Biotechnol Genet Eng Rev.* 2023 Jan 25:1-20. doi: 10.1080/02648725.2023.2168509. Epub ahead of print. PMID: 36696368. IF-3.8
9. Khan S, Punnoose K, Bishara NZA, Ali R, Khan S, Ahmad S, Marouf HA, Mirza S, **Ishrat R**, Haque S. Identification of potential inhibitor molecule against MAbA protein of *Mycobacterium leprae* by integrated in silico approach. *J Biomol Struct Dyn.* 2023 Jan 20:1-16. doi: 10.1080/07391102.2022.2160818. Epub ahead of print. PMID: 36661253. IF- 8.2.
10. Farooqui, Anam et al. "Brain-derived neurotrophic factor G196A (rs6265) gene polymorphism increases Turner syndrome susceptibility." *Biotechnology & genetic engineering reviews*, 1-15. 3 Jan. 2023, doi:10.1080/02648725.2022.2164417 IF-3.80
11. Mohd Murshad Ahmed, Safia Tazyeen, Rafat Ali, Aftab Alam, Nikhat Imam, Md Zubair Malik, Shahnawaz Ali, **Romana Ishrat**, Network centrality approaches used to uncover and classify most influential nodes with their related miRNAs in cardiovascular diseases, *Gene Reports*, Volume 27, 2022, 101555, IF=1.51
12. Gupta M, Ghufuran SM, Kausar T, Ali R, Biswas S, Nayeem SM, Ishrat R, Ali S, Ahmad A, Rather IA, Sarwat M. Z-Guggulsterone Is a Potential Lead Molecule of Dawa-ul-Kurkum against Hepatocellular Carcinoma. *Molecules.* 2022; Aug 11 27(16):5104. <https://doi.org/10.3390/molecules27165104>. IF-4.927
13. Ahmed MM, Shafat Z, Tazyeen S, Ali R, Almashjary MN, Al-Raddadi R, Harakeh S, Alam A, Haque S, Ishrat R. Identification of pathogenic genes associated with CKD: An integrated bioinformatics approach. *Front Genet.* 2022 Aug 11;13:891055. doi: 10.3389/fgene.2022.891055. PMID: 36035163; PMCID: PMC9403320. IF- 3.789.
14. Safia Tazyeen, Mohd Murshad Ahmed, Anam Farooqui, Aftab Alam, Md. Zubair Malik, Mohd Saeed, Irfan Ahmad, Mohammed Abohashrh, R. K. Brojen Singh & Romana Ishrat, "Identification of key regulators in Sarcoidosis through multidimensional systems biological approach" *Scientific Reports*, 1236 (2022) 1-19, ISSN- 2045-2322, IF = 4.37
15. Mohd Murshad Ahmed, Safia Tazyeen, Shafiul Haque, Ahmad Sulimani, Rafat Ali, Mohd Sajad, AFTAB ALAM, Shahnawaz Ali, Romana Ishrat "A network-based approach and IVI methodologies, a comparative data investigation identified probable important genes in cardiovascular disease and chronic kidney disease" *Frontiers in Cardiovascular Medicine* ISSN 2297-055X, IF = 6.05

16. Mohd Murshad Ahmed, Almaz Zaki, Alaa Alhazmi, Khalaf F Alsharif, Hala Abubaker Bagabir, Shafiul Haque, Shaniya Ahmad, Kailash Mandal, Syed Mansoor Ali, **Romana Ishrat**, "Identification and Validation of pathogenic genes in sepsis and associated diseases by integrated bioinformatics approach", MDPI-GENES, ISSN 2073-4425, IF=4.09
17. Mohd Murshad Ahmed, Safia Tazyeen, Rafat Ali, Aftab Alam, Nikhat Imam, Md Zubair Malik, Shahnawaz Ali, **Romana Ishrat**, Network centrality approaches used to uncover and classify most influential nodes with their related miRNAs in cardiovascular diseases, Gene Reports, Volume 27, 2022, June 101555, ISSN 2452-0144, <https://doi.org/10.1016/j.genrep.2022.101555>. IF- 1.51
18. Aftab Alam, Hala Abubaker Bagabir, Armiya Sultan, Mohd Faizan Siddiqui, Nikhat Imam, Mustfa F Alkhanani, Ahmad Alsulimani, Shafiul 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) (Vol-xxx, Page xxx), ISSN= 1663-9812, IF = 5.82
19. Aftab Alam, Khan, Arbaaz, Nikhat Imam, Mohd Faizan Siddiqui, Mohd Waseem, 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." Briefing in Bioinformatics (2021) (Vol-xxx, Page1-15), ISSN= 1477-4054, IF = 11.62
20. Sultan, Armiya, Rafat Ali, **Romana Ishrat**, and Sher Ali. "Anti-HIV and anti-HCV small molecule protease inhibitors in-silico repurposing against SARS-CoV-2 Mpro for the treatment of COVID-19." Journal of Biomolecular Structure and Dynamics (2021): 1-15. ISSN- 0739-1102, IF = 3.39
21. Farooqui, Anam, Alaa Alhazmi, Shafiul Haque, Naaila Tamkeen, Mahboubeh Mehmankehah, Safia Tazyeen, Sher Ali, and **Romana Ishrat**. "Network-based analysis of key regulatory genes implicated in Type 2 Diabetes Mellitus and Recurrent Miscarriages in Turner Syndrome." Scientific reports 11, no. 10662 (2021) 1-19. ISSN- 2045-2322, IF = 4.37
22. Ahmed, Mohd Murshad, Safia Tazyeen, Aftab Alam, Anam Farooqui, Rafat Ali, Nikhat Imam, Naaila Tamkeen, Shahnawaz Ali, Md Zubair Malik, and **Romana Ishrat**. "Deciphering key genes in cardio-renal syndrome using network analysis." Bioinformatics 2021 Jan 31;17(1):86-100. ISSN-0973-8894, IF = 0.90
23. Ali, Rafat, Safia Tazyeen, Mohd Murshad Ahmed, Aftab Alam, Nikhat Imam, Shahnawaz Ali, Md Zubair Malik, and **Romana Ishrat**. "In silico search for regulatory genes associated with lung and liver disease in Cystic Fibrosis." Network Biology: 2021, 11(3): 137-153 ISSN 2220-8879, IF = NA

24. Ahmed, Mohd Murshad, Romana Ishrat, Safia Tazyeen, Aftab Alam, Anam Farooqui, Rafat Ali, Nikhat Imam et al. "In silico integrative approach revealed key microRNAs and associated target genes in cardiorenal syndrome." *Bioinformatics and Biology Insights* 15 (2021): ISSN- 1177-9322
IF = 2.06
25. Tamkeen Naaila, Suliman Yousef AlOmar, Saeed Awad M. Alqahtani, Abdullah Al-Jurayyan, Anam Farooqui, Safia Tazyeen, Nadeem Ahmad, and Romana Ishrat. "Identification of the Key Regulators of Spina Bifida Through Graph-Theoretical Approach." *Frontiers in Genetics* 12 (2021). ISSN- 16648021 IF = 4.27
26. Aftab Alam, Nikhat Imam, Mohd Faizan Siddiqui, Md. Kaisar 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* (2020) ((Vol-xxx, Page1-15), ISSN: 1567-1348, IF = 3.34
27. Tiwari, Preeti, Rafat Ali, **Romana Ishrat**, and Najmul Arfin. "Study of Interaction Between Zein and Curcumin Using Spectroscopic And In Silico Techniques." *Journal of Molecular Structure* (2020): 129637.[Val- ;page], ISSN=0022-2860, IF = 3.19
28. Shaniya Ahmad, Mohd Murshad Ahmed, P. M. Z. Hasan, Archana Sharma, Anwar L. Bigram, Kailash Manda, **Romana Ishrat** and Mansoor Ali Syed "Identification and Validation of Potential miRNAs, as Biomarkers for Sepsis and Associated Lung Injury: A Network-Based Approach", *MDPI Genes* 2020 (Vol 11(11), page 1327), ISSN= 2073-4425, IF = 4.09
29. Ayesha Tazeen, Farah Deeba, Aftab Alam, Rafat Ali, **Romana Ishrat**, Anwar Ahmed, Sher Ali, Shama Parveen, "Virtual Screening of Potential Therapeutic Inhibitors against Spike, Helicase, and Polymerase of SARS-CoV-2 (COVID-19)", *Bentham Science-Coronavirus*, 2020, (Volume 1, 1 Issue, 2, Page=xxx), ISSN: 2666-7975, IF = NA
30. Nikhat Imam Aftab Alam, Mohd Faizan Siddiqui, Mohd Murshad Ahmed, Md. Zubair Malik, Jawed Iqbal Khan & **Romana Ishrat**, "Identification of key regulators in parathyroid adenoma using an integrative gene network analysis" 2020, *Bioinformation* (Vol-16, issue 11), ISSN= 0973-2063, IF = 0.9
31. Alam, Aftab, 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* 44, no. SI-1 (2020): 121-131.((2020), VOL-44, PAGES=121-131), ISSN= 1303-6092,
IF = 0.76

32. Mohd. Amir, Aftab Alam, Romana Ishrat, Mohamed F. Alajmi, Afzal Hussain, Md. TabishRehman, Asimul Islam, Faizan Ahmad, Md. Imtaiyaz Hassan, and RavinsDohare; "A Systems View of the Genome Guardians: Mapping the Signaling Circuitry Underlying Oligonucleotide/Oligosaccharide-Binding Fold Proteins". *OMICS A Journal of Integrative Biology*, 2020. (ISSN= 1557-8100, VOL-24, PAGE=N.A), IF = 2.37
33. Malik, Md Zubair, KeilashChirom, Shahnawaz Ali, Romana Ishrat, PallaviSomvanshi, and RK Brojen Singh. "Methodology of Predicting Novel Key Regulators in Ovarian Cancer Network: A Network Theoretical Approach." *BMC Cancer* 19, no. 1 (2019): 1129. ISSN= 1471-2407, VOL-19, PAGES=1129). IF = 4.4
34. Mehmankhah, Mahboubeh, RuchikaBhat, Mohammad SaberyAnvar, Shahnawaz Ali, Aftab Alam, Anam Farooqui, Fatima Amir et al. "Structure-Guided Approach to Identify Potential Inhibitors of Large Envelope Protein to Prevent Hepatitis B Virus Infection." *Oxidative medicine and cellular longevity* 2019 (2019). ISSN=1942-0994, VOL-2019). IF = 6.5
35. 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: Bioinformatics and Computational Biology* (2019). DOI: 10.3389/fgene.2019.00932, e-ISSN=1664-8021, VOL-10, PAGES-932). IF = 4.6
36. Nikhat Imam, Aftab Alam, Rafat Ali, Mohd Faizan Siddiqui, Sher Ali, Md. Zubair Malik, Romana Ishrat. "In silico characterization of hypothetical proteins from *Orientia tsutsugamushi* str. Karp uncovers virulence genes." *Elsevier-Heliyon* 4 (2019) e02734. <https://doi.org/10.1016/j.heliyon.2019.e02734> (ISSN= 2405-8440 VOL-5, PAGE=e02734). IF = 2.85
37. Singh, SoibamShyamchand, DineshchandraHaobijam, Md Zubair Malik, Romana Ishrat, and RK Brojen Singh. "Fractal rules in brain networks: Signatures of self-organization." *Journal of theoretical biology* 437 (2018): 58-66. ISSN=0022-5193 VOL-437, PAGE=58-66). IF = 2.69
38. M Ali, S Ali, R Ishrat."In Silico Biochemical Pathways for Bacterial Metabolite Synthesis".In *Silico Approach for Sustainable Agriculture*, pp. 217-238. Springer, Singapore, 2018. IF = NA
39. Ali, S., Malik, M. Z., Singh, S. S., Chirom, K., Ishrat, R., & Singh, R. B. (2018). Exploring novel key regulators in breast cancer network. *PloS One*, 13(6), e-ISSN= 1932-6203, VOL=13 , PAGE= e0198525). IF = 3.24

40. Farooqui, Anam, Safia Tazyeen, Mohd Murshad Ahmed, Aftab Alam, Shahnawaz Ali, Md Zubair Malik, Sher Ali, and Romana Ishrat. "Assessment of the key regulatory genes and their Interologs for Turner Syndrome employing network approach." *Scientific reports* 8, no. 1 (2018): 10091)., e-ISSN= 2045-2322 (, VOL=8 , PAGE= 1-13). IF = 4.37
41. Qureshi, Sabia, Hari Mohan Saxena, Nikhat Imam, ZahidKashoo, MuddasirShariefBanday, Aftab Alam, Md Zubair Malik, Romana Ishrat, and BasharatBhat. "Isolation and genome analysis of a lytic *Pasteurella multocida* Bacteriophage PMP-GAD-IND." *Letters in applied microbiology* (2018)., e-ISSN= 1472-765X (, VOL=67 , PAGE= 244-253). IF = 2.85
42. Alam, Aftab, Naaila Tamkeen, Nikhat Imam, Anam Farooqui, Mohd Murshad Ahmed, Safia Tazyeen, Shahnawaz Ali, Md Zubair Malik, and Romana Ishrat. "Pharmacokinetic and Molecular Docking Studies of Plant-Derived Natural Compounds to Exploring Potential Anti-Alzheimer Activity." In *Silico Approach for Sustainable Agriculture*, pp. 217-238. Springer, Singapore, 2018.
43. Aftab Alam, Nikhat Imam and Romana Ishrat " Zika Virus: Therapeutics, Vaccines and Human Health" LAP LAMBERT Academic Publishing (October 3, 2017),(ISBN-13: 978-6202054010).
44. Chirom, Keilash, et al. "Identification of Inference Genes in Breast Cancer Network." *Journal of Biosciences and Medicines* 5.09 (2017): 29. (2020), e-ISSN= 2327-509X (VOL=5, PAGE= 29-42). IF = 0.82
45. Alam, Aftab, Nikhat Imam, Shahnawaz Ali, Md Zubair Malik, and Romana Ishrat. "Recent trends in ZikV research: A step away from cure." *Biomedicine & Pharmacotherapy* 91 (2017): (2020), e-ISSN= 0753-3322 (, VOL=91, PAGE= 1152-1159). IF = 6.56
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47. Malik, Md Zubair, Shahnawaz Ali, SoibamShyamchand Singh, Romana Ishrat, and RK Brojen Singh. "Dynamical states, possibilities and propagation of stress signal." *Scientific reports* 7 (2017).(IF=4.1 (2020), e-ISSN= 2045-2322 (, VOL=7, PAGE= 1-17). IF = 4.37
48. Malik, Md Zubair, Md Jahoor Alam, Romana Ishrat, Subhash M. Agarwal, and RK Brojen Singh. "Control of apoptosis by SMAR 1." *Molecular*

- BioSystems (2017).(IF=2.83 (2020), e-ISSN= 1742-2051 (, VOL=13, PAGE= 350-362). IF = 3.74
49. Alam, Aftab, Shahnawaz Ali, Shahzaib Ahamad, Md Malik, and Romana Ishrat. "From ZikV genome to vaccine: in silico approach for the epitope-based peptide vaccine against Zika virus envelope glycoprotein." *Immunology* 149, no.4 (2016): e-ISSN= 1365-2567 (, VOL=149, PAGE= 386-399). IF = 7.39
 50. Tasleem, Munazzah, Romana Ishrat, Asimul Islam, Faizan Ahmad, and Md Imtaiyaz Hassan. "Human Disease Insight: An integrated knowledge-based platform for disease-gene-drug information." *Journal of infection and public health* 9, no. 3(2016): (IF=2.4 (2020), e-ISSN= 1876-0341 (, VOL=9, PAGE= 331-338). IF = 3.71
 51. Alam, Aftab, Shahnawaz Ali, Md Zubair Malik, and Romana Ishrat. "In Silico Analysis of Mmpl Gene Family of Mycobacterium Tuberculosis: a Novel Target for Anti-Tb Drugs." *International Journal of Scientific Research* 5, no.1 (2016). IF = NA
 52. Singh, SoibamShyamchand, BudhachandraKhundrakpam, Andrew T. Reid, John D. Lewis, Alan C. Evans, Romana Ishrat, B. Indrajit Sharma, and RK Brojen Singh. "Scaling in topological properties of brain networks." *Scientific reports* 6 (2016).(IF=4.1 (2020), e-ISSN= 2045-2322 (, VOL=6, PAGE= 24926). IF = 4.37
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 54. Alam, Aftab, Shahnawaz Ali, Anam Farooqi, Rafat Ali, Zubair Malik, and Romana Ishrat. "Evolutionary Trace Analysis of MmpL Gene Family of Mycobacterium Tuberculosis: A Statistical Analysis of Conserved Residues in MmpL Family." *Journal of Bioinformatics and Intelligent Control* 4, no. 2 (2015): 93-100. IF = NA
 55. Afreen, Nazia, Farah Deeba, Wajihul H. Khan, Shakir H. Haider, Syed NaquiKazim, Romana Ishrat, IrshadHussainNaqvi et al. "Molecular characterization of dengue and chikungunya virus strains circulating in New Delhi, India." *Microbiology and immunology* 58, no. 12 (2014): 688-696. IF 1.95
 56. Ali, Shahnawaz, Md Malik, Md Alam, Romana Ishrat, and R. K. Singh. "Evolutionary trace analysis of p53 protein: A statistical analysis of conserved amino acids in p53 protein." *Journal of Bioinformatics and Intelligent Control* 3, no. 3 (2014): 194-201. IF = NA
 57. Tasleem, Munazzah, Romana Ishrat, Asimul Islam, Faizan Ahmad, and Imtaiyaz Hassan. "Structural characterization, homology modeling and docking studies of

ARG674 Mutation in MyH8 Gene associated with trismus-pseudocamptodactyly syndrome." Letters in Drug Design & Discovery 11, no. 10 (2014): 1177-1187. IF = 1.15

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59. Malik, Md, Shahnawaz Ali, Md Alam, GurumayumReenaroy Devi, Romana Ishrat, and R. K. Singh. "Intercellular Synchronization of Coupled Smooth Muscle Cells via Ca²⁺ Propagation." Journal of nanoscience and nanotechnology 12, no. 11 (2012): 8303-8315. IF =1.35
60. Kumar, Amit, Farheen Shamsi, Romana Ishrat, and Md Imtaiyaz Hassan. "Compilation of useful information for Indian diseases through an online database management: A useful resource for researcher and public awareness." Journal of Natural Science, Biology and Medicine 2, no. 3 (2011): 83-83.
61. Ishrat, Romana, Rafat Parveen, and Syed I. Ahson. "Pattern Trees for Fault-Proneness Detection in Object-Oriented Software." Journal of Computer Science 6, no. 10 (2010): 1078. Ishrat, Romana, Rafat Parveen, and Syed I. Ahson. "Object oriented software quality estimation-a fuzzy decision tree perspective." Int. J. Math. Sci. Eng. Appli 4 (2010): 33-46.

❖ **Invited Talk**

- Session chair “**9th 2-Weeks Refresher Course in Basic Sciences**, UGC- Human Resource Development Centre, Jamia Millia Islamia, New Delhi, August 02, 2022
- “**Decision Trees**” Bioinformatics Infrastructure Facility Centre: Training Program, Dept. of Computer Science, Jamia Millia Islamia, Nov 15, 2007

❖ **Association With Professional Bodies**

- Life member of International Association of Computer Science and Information Technology

❖ **Contribution to Corporate Life of the University**

- **Advisor, Subject Association**, Centre for Interdisciplinary Research in Basic Sciences, JMI, (2022 to contd.) & (2017 to 2018)
- **Coordinator Anti-Ragging Committee**, Centre for Interdisciplinary Research in Basic Sciences, JMI (November 2023 to contd.)
- **Convener, Centre Research Committee**, Centre for Interdisciplinary Research in Basic Sciences (2024 contd.) & (September, 2014 to 2016)
- **Ph.D. Coordinator**, Centre for Interdisciplinary Research in Basic Sciences, JMI (2024 contd.) & (July 2012 to 2017).

❖ **Conferences/Refresher course Organized**

- **Coordinator, 9th 2-Weeks Refresher Course in Basic Sciences**, UGC- Human Resource Development Centre, Jamia Millia Islamia, New Delhi, August 02, **2022**
- **Convener, Interdisciplinary Science Conference on “Big Data and Computational Biology”** organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, October, **2019**
- **Organizing Secretary, Interdisciplinary Science Conference on “Bioinformatics: Interface between Computer Science and Biology”** organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, **2011**

❖ **Orientation/Refresher Course attended**

- 5th Three-week Special Summer School, (Refresher Course), UGC-Human Resource Development Centre, Jamia Millia Islamia (May 26 – June 15, 2016)
- 1st Three-week Special Winter Program (Refresher Course), UGC-Academic Staff College, Jamia Millia Islamia (December 11, 2012 – January 01, 2013)
- 1st Refresher Course in Basic Sciences (Interdisciplinary), UGC-Academic Staff College, Jamia Millia Islamia (May 6 – 27, 2011)
- 92nd four-week Orientation Programme, UGC-Academic Staff College, Jamia Millia Islamia (April 13 – May 10, 2010)

❖ **Workshops/Training Programs attended**

- 9th DBT-BIF Sponsored National Workshop on ”Translational Bioinformatics: Guinness Book Recording to Digital Era”, March 6-7, 2019
- Bioinformatics in Drug Discovery workshop, Department of Biophysics, AIIMS, New Delhi, Feb2-5, 2016
- DBT-BIF 6th Workshop on Advances in Computational Biology and Bioinformatics, Department of Computer Science JMI, 27-28 Feb, 2015
- 5th Workshop on Bioinformatics and Molecular Modeling in Drug Design, University of Delhi, March 21-23, 2013
- Author Workshop by Springer and Ednaz, Jawaharlal Nehru University, August 27, 2012
- National Conference on “New Trends in Bioinformatics, IIT Delhi, July 30-31, 2012
- Biotech 2012, Conference Current Advances in Biotechnology and Medicine, ILBS, New Delhi, Feb 24-25, 2012
- Seminar on MATLAB® and Simulink® for Engineering Education, MathWorks Inc., August 18, 2011
- Workshop on Computational approaches in Biological Data Mining, Unit of Simulation and Informatics, IARI. Funded by DBT, March 23-25, 2011
- BIF Training Program: Bioinformatics Applications in Systems Biology, Department of Computer Science, Jamia Millia Islamia, and DBT, March 3-4, 2010
- National Science Day, Ministry of Science & Technology, Govt. of India, Indian National Science Academy, and IIT Delhi, 28 Feb, 2009.
- BIF Training Program on Bioinformatics Applications in Research and Development, Department of Computer Science, Jamia Millia Islamia and DBT, Feb 19-20, 2009

- BIF Training Program, Department of Computer Science, Jamia Millia Islamia and DBT, 10-16 November, 2007
- National Workshop on Software Security, Dept. Of Computer Science, JMI & Department of Information Technology, MIT. Sep 13-14, 2007
- Soft Computing, Machine Learning and Bioinformatics Applications, Dept. Of Computer Science, JMI, Nov 17-19,2004

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