




## Bharath Institute of Higher Education and Research

### Faculty Profile

Personal Details	
<b>Dr. Sudhan M</b>	
<b>Research Associate</b>	
Human Genetics Research Centre	
Sree Balaji Dental College and Hospital	
91+ 8124385988	
Email: sudhandynamics@gmail.com	

Area of Interest	Bioinformatics, Computational Biology, Molecular biology
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Subjects Taught	
UG	PG
NIL	NIL

Academic Background				
Degree	Specialization	University	Class	Month & Year of Passing
<b>Ph.D.</b>	Medical Biotechnology	Chettinad Academy of Research and Education, Kelambakkam, Tamil Nadu, Chennai, India	First Class	2024
<b>M.Sc.</b>	Criminology and Forensic science	School of Social Work, Roshni Nilaya, Mangalore, Karnataka, India	First Class	2020

<b>B.Sc.</b>	Medical Genetics	Chettinad Academy of Research and Education, Kelambakkam, Chennai, India	Second Class	2018
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<b>Work Experience</b>							
Name of the Institution/Company			Position		From		To
Sree Balaji Dental College and Hospital			Research Associate		December 2024		Till Date
Total experience	5 months	Teaching	0 years	Research	5 months	Administration	-

<b>Research Publications</b>				
International Journal	National Journal	International Conference	National Conference	Total Number of Publications
<b>Recent Publications (Journals)- Chronological order</b>				
Sl. No	Details			
1	Janakiraman V, <b>Sudhan M</b> , Ahmad SF, Al-Mazroua HA, Ahmed SS. Detrimental Effect of T261I and R287W SMAD3 Variants on Early Osteoarthritis: A Potential Anti-Inflammatory Molecule for Personalized Treatment. Advanced Theory and Simulations. 2025 Jan 11. (Scopus and Pubmed Indexed)			

2	<b>Sudhan M</b> , Janakiraman V, Ahmad SF, Attia SM, Subramanian R, Devi D, Ahmed SS. A comprehensive insight from molecular docking and dynamics with clinical investigation on the impact of direct oral anticoagulants on atheroprotective protein in atrial fibrillation. BMC Pharmacology and Toxicology. 2024 Aug 22;25(1):56. (Scopus and Pubmed Indexed)
3	Janakiraman V, <b>Sudhan M</b> , Ahmad SF, Attia SM, Emran TB, Ahmed SS. Molecular Docking, Quantum Mechanics and Molecular Dynamics Simulation of Anti-CAD Drugs Against High-Risk Xanthine Dehydrogenase Variants Associated with Oxidative Stress Pathways. Journal of Computational Biophysics and Chemistry. 2024 Aug 1:1-20. (Scopus and Pubmed Indexed)

4	<b>Sudhan</b> , Janakiraman, Sheikh F. Ahmad, Abubakar Wani, and Shiek SSJ Ahmed. "Phytochemicals from Piper betle (L.) as Putative Modulators of a Novel Network-Derived Drug Target for Coronary Artery Disease: An In Silico Study." Processes 11, no. 11 (2023): 3064. (Scopus and Pubmed Indexed).
5	<b>M., Sudhan</b> , Janakiraman V., Sheikh F. Ahmad, Sabry M. Attia, Talha Bin Emran, Rajesh B. Patil, and Shiek S. S. J. Ahmed. 2023. "Structural Characteristics of PON1 with Leu55Met and Gln192Arg Variants Influencing Oxidative-Stress-Related Diseases: An Integrated Molecular Modeling and Dynamics Study" Medicina 59, no. 12: 2060. (Scopus and Pubmed Indexed).
6	<b>Sudhan, M.</b> , V. Janakiraman, Rajesh Patil, Atif Abdulwahab A. Oyouni, Ahmad Hasan Mufti, and Shiek SSJ Ahmed. "Asn215Ser, Ala143Thr, and Arg112Cys variants in $\alpha$ -galactosidase A protein confer stability loss in Fabry's disease." Journal of Biomolecular Structure and Dynamics 41, no. 19 (2023): 9840-9849. (Scopus and Pubmed Indexed).
7	Janakiraman, V., <b>M. Sudhan</b> , Khalaf F. Alsharif, Ibrahim F. Halawani, Shiek SSJ Ahmed, and Shankargouda Patil. "Comparative assessment of anti-cancer drugs against NUDT15 variants to prevent leucopenia side effect in leukemia patients." Journal of Genetic Engineering and Biotechnology 21, no. 1 (2023): 82. (Scopus and Pubmed Indexed).
8	Janakiraman, V., <b>M. Sudhan</b> , Shankargouda Patil, Khalid J. Alzahrani, Fuad M. Alzahrani, Ibrahim F. Halawani, and Shiek SSJ Ahmed. "Rheumatoid arthritis treatment with zoledronic acid, a potential inhibitor of GWAS-derived pharmacogenetics STAT3 and IL2 targets." Gene 866 (2023): 147338. (Scopus and Pubmed Indexed).
9	Janakiraman V1, <b>Sudhan M1</b> , Abubakar Wani2, Sheikh F. Ahmad3, Ahmed Nadeem3, Ashutosh Sharma4, Shiek S. S. J. Ahmed1. "Pharmacoscreening, molecular dynamics, and quantum mechanics of inermine from Panax ginseng: a crucial molecule inhibiting exosomal protein target associated with coronary artery disease progression." PeerJ 11 (2023), e16481. (Scopus and Pubmed Indexed).
10	Janakiraman, V., <b>M. Sudhan</b> , Khalid J. Alzahrani, Saleh Alshammeri, Shiek SSJ Ahmed, and Shankargouda Patil. "Dynamics of TUBB protein with five majorly occurring natural variants: a risk of cortical dysplasia." Journal of Molecular Modeling 29, no. 4 (2023): 100. (Scopus and Pubmed Indexed).

International Book Chapters Publication	
1	<b>Mookkandi, S.</b> , Roshni, J., Velayudam, J., Sivakumar, M., & Ahmed, S. F. (2022). Bioinformatics Resources, Tools, and Strategies in Designing Therapeutic Proteins. In Therapeutic Proteins Against Human Diseases (pp. 91-123). Singapore: Springer Nature Singapore. (Scopus and Pubmed Indexed).
2	Ahmed, S. S., Veerabathiran, R., <b>Sudhan, M.</b> , Panwar, H., & Pramasivam, P. (2023). Multi-omics methods and tools in dissecting the oncovirus behavior in human host. In Oncogenic Viruses (pp.109-145). Academic Press.

Programmes (Workshop/ Training/ conference) Conducted/ Attended	
Sl. No	Details in Chronological order
1.	<b>Sudhan M</b> and Shiek Ahmed “A Computational Framework for Identifying Salivary Exosomal MicroRNAs as Potential Predictors of Malignancy in Oral Lichen Planus” Roseman University of Health Sciences poster presentation on 10th Annual Roseman University Research Symposium conducted on Feb21, 2024.

Roles and Responsibilities	
Sl. No	Details
1	Research Design and Planning, Data Collection and Analysis, Documentation and Reporting, Dissemination of Findings

Awards Received	
Sl. No	Details
	NIL