




# Bharathiar University

State University | "A++" Grade by NAAC | 46<sup>th</sup> Rank in MoE-NIRF  
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

<p><b>Dr N JEYAKUMAR</b> Professor and Head Department of Bioinformatics Bharathiar University</p> <p>Tamil Nadu <b>E-mail:</b> n.jeyakumar@buc.edu.in <b>Phone:</b> 9443494336 <b>Office Number:</b></p>	
<p><b>Research Area</b></p> <ul style="list-style-type: none"><li>• Text Mining and Data Mining</li><li>• Database Development</li><li>• Application of Machine Learning and Artificial Intelligence in Biomedicine</li><li>• Integrative Computational Biology</li></ul>	<p><b>Courses Teaching</b></p> <ul style="list-style-type: none"><li>• Programming in C and C++</li><li>• Practical-II Computer Programming</li><li>• Perl and Python Programming for Bioinformatics</li><li>• Visual Basic .NET with RDBMS</li><li>• Practical-IV Biological Sequence Analysis and Computer Aided Drug Design</li><li>• Molecular Modelling</li><li>• Principles of Drug Discovery</li><li>• Bioinformatics Algorithm and Machine Learning</li><li>• Computer Programming for Cheminformatics</li><li>• Cheminformatics Database Design and Their Management</li><li>• Practical-I Computer Programming</li></ul>
<p><b>Research Experience:</b> 28</p>	<p><b>Teaching Experience:</b> 28</p>
<p><b>Research Credentials</b> (as on September 2025 – Source: Google scholar) H-index: 20                      Citations: 1614                      i10-index: 46</p>	
<p><b>Patents :</b>                      Filed: 3</p>	
<p><b>Publications</b> International Journals: 48                      National Journals: 2</p>	
<p><b>Career</b></p> <p><b>Other Institutes</b></p> <p><b>1. Designation : Lecturer</b> Institution Name : Madurai Kamaraj University, Madurai Period : September 1996 - February 2008</p> <p><b>At Bharathiar University</b></p> <p><b>1. Designation : Professor and Head</b> Period : October 2015 - Till Date</p> <p><b>2. Designation : Professor</b> Period : February 2014 - October 2015</p> <p><b>3. Designation : Associate Professor</b> Period : February 2011 - February 2014</p> <p><b>4. Designation : Reader</b> Period : February 2008 - February 2011</p>	
<p><b>Education</b></p>	



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Dr N JEYAKUMAR , Professor and Head , Department of Bioinformatics

## B. Sc.

Subject : Physics  
Institution : Bishop Heber College  
Affiliated University : Bharathidasan University  
Year of Award :

## M. Sc.

Subject : Physics  
Institution : Annamalai University  
Affiliated University : Annamalai University  
Year of Award :

## PG Diploma

Subject : Computer Application  
Institution : Bharathidasan University  
Affiliated University : Bharathidasan University  
Year of Award :

## Ph. D.

Subject : Bioinformatics  
Institution : University of Ulster  
Affiliated University : University of Ulster  
Year of Award :

## Projects

### National Level

Ongoing - completed - 6

## Research Guidance

### Completed

Ph.D. - 15

### On Going

Ph.D. - 6

## Institutional Responsibilities

### Professor and Head

Period :Oct 2015 to Till date

Nature of Responsibility :My role as Professor and Head, Dept of Bioinformatics, for nearly 10 years help to get major funding such as FIST and to establish "High Resolution Graphics Facility" with state of-the-art servers and software for structure based drug discovery using computational methods. This facility helps major inter, intra department collaborations and publication in high impact journals. Further, establishment of smart class rooms and introduction job oriented courses such as Bioinformatics Algorithms and ML and MG, and periodic journal seminar, and guest lectures from industry personal helps students to get good academic records and placements. In addition, student help name MOTIF students involved in various extension activities such as inside-garden maintenances, blood donor, quizzes, and Pongal Vizha, NSS, Pooja Celebrations etc.

### Director of CRTD

Period :Jul 2020 - Jun 2023

Nature of Responsibility :As the Director of CRTD, I established the first autonomous Centre in BU to manage extra-mural funding. With a budget of about ?2 cores, I developed a state-of-the-art 1800 sq. ft. research facility equipped with modern infrastructure and IT systems. I framed guidelines on par with IISc/IITs, secured statutory approvals, and streamlined processes through a single-window system for approvals and recruitment. Under my leadership, CRTD became a central hub for sponsored research and consultancy projects, ensuring efficiency, transparency, and rapid facilitation. This initiative positioned CRTD as a pioneer in research administration within the University.

### Syndicate Member

Period :Nov 2016 - Nov 2019

Nature of Responsibility :The impact contribution as syndicate member includes 1) The implementation of project autonomy and CRDT centre help as one stop solution for easy utilization of project funds and send UC on time. 2) The regularized honorarium and travel cost will help external experts and University staff working on University assigned duties in hassle free environment with proper-pay. 3) The Dean's increase



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**age limit will help to utilize the service of senior faculty till retirement after Chancellor's accent and implementation.**  
**VC committee member**

Period :Feb 2018 - Oct 2019

Nature of Responsibility :As a VC committee member I demonstrated both a depth and breadth of achievement in University administration for both faculty and staff welfare and infrastructure development. All the grievances related to 3 categories of staff working in the University teaching, non-teaching and temporary workers were sorted out and their long pending demands were cleared which helps the smooth function of University. The transparent, fair and quick administration help all University/College related file processing on-time and create a hassle free environment in University administration. In infrastructure development with new building approvals for 20 cores and ERP sanction and implementation of 2.5 cores and speedy file processing and use of Central funds such as PURSE, FIST and SAP and on time

**Programs organized** and Green Campus initiative such as solar power have the impact on forthcoming NAAC and NIRF rankings.

1. International Conference on Biosciences and Biotechnology (ICBB 2017) - )
2. International Webinar on Recent Trends In Computational Biology and Bioinformatics 2020 - )
3. Third National Conference on Computational Biology 2016 - )
4. Fourth National Conference on Computational Biology 2017 - )
5. Fifth National Conference on Computational Biology 2018 - )
6. Modern Drug Design Applications MOTIF 2018 - )
7. National Seminar on AI and Bioinformatics for Biology (MOTIF 2023) - )
8. National Seminar on Computational Mining and Integrative Omics for Biomedical Research (MOTIF 2025) - )

## Patents

**Filed - 3**

1. 'D-NER' (Disease Named Entity Recognizer) 01-1970 7161/2022-  
CO/SW Jeyakumar N
2. 'GDMiner' (Gene-Disease association Miner) 01-1970 7163/2022-  
CO/SW Jeyakumar N
3. DisGeReEXT: Disease Gene Relation Extractor 01-1970 7160/2020-  
CO/SW Jeyakumar N

## Selected Publications

1. **Radiogenomic Profiling for Survival Analysis in Gastric Cancer: Integrating CT Imaging, Gene Expression, and**

### Clinical Data

Molecular Imaging and Biology (January 2025)  
AR Nath, K Thenmozhi, J Natarajan

2. **DisGeReExT: A knowledge discovery system for exploration of disease gene associations through large scale literature wide analysis study**

Knowledge and Information Systems (KAIS), 65, 3463-3487, 2023 (May 2023)  
Balu Bhasuran, Jeyakumar Natarajan

3. **Multiscale Laplacian graph kernel combined with lexicosyntactic patterns for biomedical event extraction from literature**

Knowledge and Information Systems, 63 (1), 143-73, 2021 (August 2021)  
Abdulkadhar S, Bhasuran B, Natarajan J

4. **Integrated meta-analysis and machine learning approach identifies acyl-CoA thioesterase with other novel genes responsible for biofilm development in Staphylococcus aureus**

Infection, Genetics and Evolution, 88, 104702, 2021 (June 2021)  
Subramanian. D , Natarajan J



## 5. Mining protein phosphorylation information from biomedical literature using NLP parsing and Support Vector

### Machines

Computer methods and programs in biomedicine, 160 (56-74), 2018 (September 2018)  
Raja, K., Natarajan, J

## 6. Distributed smoothed tree kernel for protein-protein interaction extraction from the biomedical literature

PloS one, 12 (11), e0187379, 2017 (August 2017)  
Murugesan, G., Abdulkadhar, S., Natarajan, J

## 7. HPIminer: A text mining system for building and visualizing human protein interaction networks and pathways

Journal of Biomedical Informatics, 54 (121-130), 2015 (June 2015)  
Subramani, S., Kalpana, R., Monickaraj, P.M. and Natarajan J

## 8. A hybrid named entity tagger for tagging human proteins/genes

Int. J. Data Mining and Bioinformatics, 10 (315-328), 2014 (August 2014)  
Raja, K., Subramani, S., and Natarajan, J.,

## 9. Template Filling in Text Mining

Encyclopedia of Systems Biology, 2013 (August 2013)  
Kalpana Raja, Suresh Subramani, Jeyakumar Natarajan

## 10. HomoKinase: A Curated Database of Human Protein Kinases

ISRN Comp. Biology, 2013 (August 2013)  
Subramani, S., Jayapalan, S., Kalpana, R., and Natarajan, J.,