



# Bharathiar University

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

<p><b>Dr V THIRUNAVUKKARASU</b> Associate Professor Department of Biotechnology Bharathiar University , 641046 Tamil Nadu <b>E-mail:</b> thirunavukkarasu@buc.edu.in <b>Phone:</b> 9940268381 <b>Office Number:</b></p>	
<p><b>Research Area</b></p> <ul style="list-style-type: none"> <li>• Cancer Genetics and Proteomics</li> <li>• Signal Transduction</li> <li>• Cancer Therapeutics</li> <li>• Infectious Diseases</li> </ul>	<p><b>Courses Teaching</b></p> <ul style="list-style-type: none"> <li>• Biochemistry</li> <li>• Pharmaceutical Biotechnology</li> <li>• Molecular Diagnostics &amp; Clinical Testing</li> <li>• Animal Biotechnology</li> <li>• Genetics</li> </ul>
<p><b>Research Experience:</b> 25</p>	<p><b>Teaching Experience:</b> 9</p>
<p><b>Research Credentials</b> (as on September 2025 – Source: Google scholar) H-index: 28                      Citations: 3101                      i10-index: 42</p>	
<p><b>Patents :</b>                                      Granted: 4 Filed: 2</p>	
<p><b>Publications</b> Books/Chapters: 3                                      International Journals: 59                                      National Journals: 3</p>	
<p><b>Career</b></p> <p><b>Other Institutes</b></p> <ol style="list-style-type: none"> <li><b>1. Designation : Post Doctoral Fellow</b> Institution Name : Department of Pathology, University of Michigan, Michigan, USA Period : October 2009 - January 2015</li> <li><b>2. Designation : Post Doctoral Fellow</b> Institution Name : The University of Texas Health center at Tyler, Texas, USA. Period : May 2005 - August 2008</li> <li><b>3. Designation : Post Doctoral Fellow</b> Institution Name : Senior Scientist, Sri Ramachandra Medical University, Chennai Period : March 2015 - March 2016</li> <li><b>4. Designation : Post Doctoral Fellow</b> Institution Name : Department of Pediatrics, Louisiana State University Health Sciences Center Shreveport, USA Period : August 2008 - September 2009</li> <li><b>5. Designation : Assistant Professor</b> Institution Name : DBT-Ramalingaswami Fellow/Senior Assistant Professor, Department of Animal Science, Bharathidasan University, Tiruchirappalli Period : November 2016 - Till Date</li> </ol> <p><b>At Bharathiar University</b></p> <ol style="list-style-type: none"> <li><b>1. Designation : Associate Professor</b> Period : November 2016 - Till Date</li> </ol>	
<p><b>Education</b></p>	



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Dr V THIRUNAVUKKARASU , Associate Professor , Department of Biotechnology

## Ph. D.

Subject : Biochemistry  
Institution : Annamalai University  
Affiliated University : Annamalai University  
Year of Award : February 2005

## M. Phil.

Subject : Biochemistry  
Institution : Annamalai University  
Affiliated University : Annamalai University  
Year of Award : December 2000

## M. Sc.

Subject : Biochemistry  
Institution : Annamalai University  
Affiliated University : Annamalai University  
Year of Award : April 1999

## Projects

### National Level

Ongoing - 4 completed - 3

## Research Guidance

### Completed

Ph.D. - 1 M.Phil. - 1

### On Going

Ph.D. - 5

## Visits

1. 5th International meeting on Food & Brain Health, Sultan Qaboos University - )
2. 3rd Kuwait international conference on life sciences - )
3. 6th International meeting on Food & Brain Health, Sultan QaboosUniversity - )

## Patents

### Granted - 4

1. RNA Chimeras in human leukemia and lymphoma 11-2014 9657350 Kojo Elenitoba-Johnson, Thirunavukkarasu Velusamy, Nallasivam Palanisamy, Anagh Sahasrabuddhe, Megan Lim, Arul Chinnaiyan
2. Methods and Biomarkers for detection and treatment of mature T- cell Leukemia. 02-2015 14459928 Kojo Elenitoba-Johnson, Mark J. Kiel, Thirunavukkarasu Velusamy, Anagh Sahasrabuddhe, Delphine Rolland, Megan Lim
3. Methods and Biomarkers for detection of Lymphoma 01-2014 13931177 Kojo Elenitoba-Johnson, Mark J. Kiel, Thirunavukkarasu Velusamy, Bryan L Betz, Megan Lim
4. Recurrent gene fusions in cutaneous CD30- positive lymphoproliferative disorders. 03-2020 US10590488 Kojo Elenitoba-Johnson, Mark J Kiel, Delphine Rolland, Bryan L Betz, Nathanael G Bailey, Thirunavukkarasu Velusamy, Megan Lim.

### Filed - 2

1. Oncogenic TYK2 Gene fusions in Cancer 01-1970 - Kojo Elenitoba-Johnson, Thirunavukkarasu Velusamy, Mark J. Kiel, Anagh Sahasrabuddhe, Delphine Rolland, Megan Lim
2. Nanocomposite for targeted delivery of 2-Deoxy-D-Glucose (2-DG) 01-1970 202441046753 Dr. Thirunavukkarasu Velusamy, Dr. H.C. Manjunatha, Dr. Y.S. Vidya, Dr. S. Manjunatha, S. Emily Jenifer, Pavithra Balakrishnan, Antony Anista Michael, Priyadarshini Tamilzhmani

## Selected Publications

1. [Toxicological Impact of Chronic Chlorpyrifos Exposure: DNA Damage and Epigenetic Alterations Induces Neoplastic Transformation of Liver Cells](#)



## 2. Targeting altered calcium homeostasis and uncoupling protein<sup>2</sup> promotes sensitivity in drug-resistant breast

### cancer cells

Journal of Biochemical and Molecular Toxicology (January 2024)  
Pavithra Balakrishnan, Ashok Arasu, Thirunavukkarasu Velusamy

## 3. RNA sequencing analyses reveal differentially expressed genes and pathways as Notch2 targets in B-cell

### lymphoma

Oncotarget (December 2020)  
Ashok Arasu, Pavithra Balakrishnan, Thirunavukkarasu Velusamy

## 4. PAX3: a molecule with oncogenic or tumor suppressor function is involved in cancer

BioMed Research International (August 2018)  
Ashok Arasu, Sengottuvelan Murugan, Musthafa Mohamed Essa, Thirunavukkarasu Velusamy, Gilles J Guillemain

## 5. Protective effect of antioxidants on neuronal dysfunction and plasticity in Huntington's disease

Oxidative medicine and cellular longevity (January 2017)  
Thirunavukkarasu Velusamy, Archana S Panneerselvam, Meera Purushottam, Muthuswamy Anusuyadevi, Pramod Kumar Pal, Sanjeev Jain, Musthafa Mohamed Essa, Gilles J Guillemain, Mahesh Kandasamy

## 6. Genomic analyses reveal recurrent mutations in epigenetic modifiers and the JAK-STAT pathway in Sézary

### syndrome

Nature communications (September 2015)  
Mark J Kiel, Anagh A Sahasrabudde, Delphine CM Rolland, Thirunavukkarasu Velusamy, Fuzon Chung, Matthew Schaller, Nathanael G Bailey, Bryan L Betz, Roberto N Miranda, Pierluigi Porcu, John C Byrd, L Jeffrey Medeiros, Steven L Kunkel, David W Bahler, Mega

## 7. Novel Gene Translocations Involving TYK2 in Cutaneous CD30-Positive Lymphoproliferative Disorders

Blood, The Journal of the American Society of Hematology (December 2014)  
Thirunavukkarasu Velusamy, Mark J Kiel, Anagh A Sahasrabudde, Delphine CM Rolland, Catherine A Dixon, Nathanael G Bailey, Bryan L Betz, Noah A Brown, Alexandra C Hristov, Ryan A Wilcox, Roberto N Miranda, L Jeffrey Medeiros, Yoon K Jeon, Megan S Lim, Koj

## 8. A novel recurrent NPM1-TYK2 gene fusion in cutaneous CD30-positive lymphoproliferative disorders

Blood, The Journal of the American Society of Hematology (December 2014)  
Thirunavukkarasu Velusamy, Mark J Kiel, Anagh A Sahasrabudde, Delphine Rolland, Catherine A Dixon, Nathanael G Bailey, Bryan L Betz, Noah A Brown, Alexandra C Hristov, Ryan A Wilcox, Roberto N Miranda, L Jeffrey Medeiros, Yoon K Jeon, Kedar V Inamdar, Me