




Bharathiar University

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

<p>Dr V THIRUNAVUKKARASU Associate Professor Department of Biotechnology Bharathiar University , 641046 Tamil Nadu E-mail: thirunavukkarasu@buc.edu.in Phone: 9940268381 Office Number:</p>	
<p>Research Area</p> <ul style="list-style-type: none"> • Cancer Genetics and Proteomics • Signal Transduction • Cancer Therapeutics • Infectious Diseases 	<p>Courses Teaching</p> <ul style="list-style-type: none"> • Biochemistry • Pharmaceutical Biotechnology • Molecular Diagnostics & Clinical Testing • Animal Biotechnology • Genetics
<p>Research Experience: 25</p>	<p>Teaching Experience: 9</p>
<p>Research Credentials (as on September 2025 – Source: Google scholar) H-index: 28 Citations: 3101 i10-index: 42</p>	
<p>Patents : Granted: 4 Filed: 2</p>	
<p>Publications Books/Chapters: 3 International Journals: 59 National Journals: 3</p>	
<p>Career</p> <p>Other Institutes</p> <ol style="list-style-type: none"> 1. Designation : Post Doctoral Fellow Institution Name : Department of Pathology, University of Michigan, Michigan, USA Period : October 2009 - January 2015 2. Designation : Post Doctoral Fellow Institution Name : The University of Texas Health center at Tyler, Texas, USA. Period : May 2005 - August 2008 3. Designation : Post Doctoral Fellow Institution Name : Senior Scientist, Sri Ramachandra Medical University, Chennai Period : March 2015 - March 2016 4. Designation : Post Doctoral Fellow Institution Name : Department of Pediatrics, Louisiana State University Health Sciences Center Shreveport, USA Period : August 2008 - September 2009 5. Designation : Assistant Professor Institution Name : DBT-Ramalingaswami Fellow/Senior Assistant Professor, Department of Animal Science, Bharathidasan University, Tiruchirappalli Period : November 2016 - Till Date <p>At Bharathiar University</p> <ol style="list-style-type: none"> 1. Designation : Associate Professor Period : November 2016 - Till Date 	
<p>Education</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 protein² 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