

**Dr.K.AKILA**

Assistant Professor,  
Department of Biotechnology,  
Bishop Heber College,  
Tiruchirappalli - 17.

E-mail : [akila.bi@bhc.edu.in](mailto:akila.bi@bhc.edu.in)

Phone : 9788346954

Web:

## Qualification

Degree	Branch	Institution / University	Year of Passing
Ph.D	Biotechnology. Subject : Bioinformatics	Periyar Maniammai University, Thanjavur-613 403	2014
M.Phil	Bioinformatics	Bharathidasan University(Distance Education), Tiruchirappalli-620 024	2008
M.Sc.,	Bioinformatics	A.V.C. College, Mayiladuthurai-609 305	2006
B.Sc.,	Microbiology	A.V.C. College, Mayiladuthurai-609 305	2004

## Ph.D. Details

<b>Title of Thesis</b>		<b>Area of Specialization</b>	
Role of carbon in abnormal proteins		Sequence Analysis	
<b>Research Supervisor</b>	<b>Research Centre</b>	<b>Year of Award</b>	
Dr.K.Rajendran & Dr.E.Rajasekaran	Periyar Maniammai University, Thanjavur-613 403	September 2014	

## Work Experience

Name of Institution	Address of Institution	Designation	From	To
BISHOP HEBER COLLEGE	Bishop Heber College, Tiruchirappalli-620 017	ASSISTANT PROFESSOR	11-07-2011	TILL DATE
Annai College of Arts and Science	Annai College of Arts and Science, Kumbakonam- 612 503	Lecturer	30-05-2006	30-04-2007
Marudupandiyar College of Arts and Science	Marudupandiyar College of Arts and Science, Thanjavur-613 403	Lecturer	02-07-2007	14-08-2008
Jamal Mohamed College	Jamal Mohamed College, Tiruchirappalli-620 020	ASSISTANT PROFESSOR	16-08-2008	17-05-2011

## Teaching / Research Experience

U.G. : 6

P.G. : 5

M.Phil.

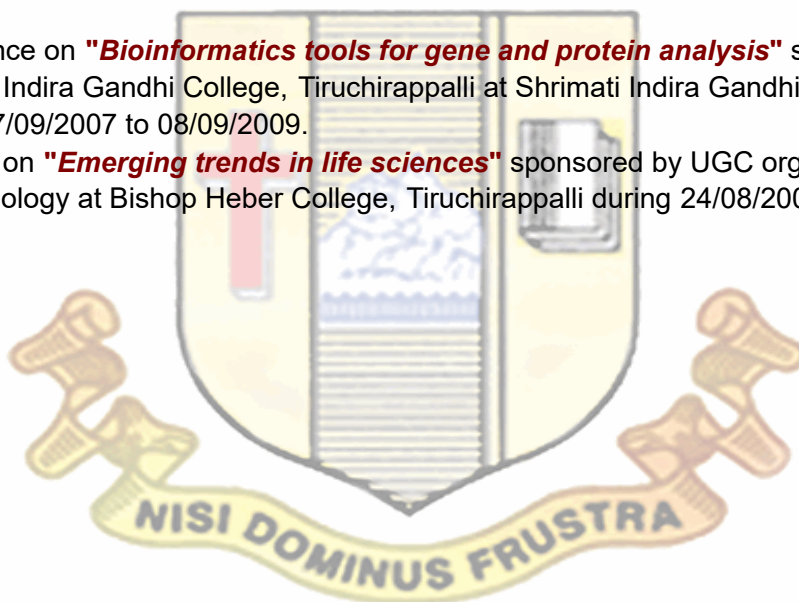
Ph.D.

## Table of Contents

1.	Conferences / workshops / Seminars Attended	25
2.	Research Papers Presented	14
3.	Publication in Journals	15
4.	Publication in Books	1
5.	Books Published / Edited	0
6.	Conferences / Workshops / Seminars Organised	0
7.	Research Projects	1
8.	Resource Person	0
9.	Consultancy	0
10.	Awards Recieved	0
11.	Patent	0
12.	Extension Activities Undertaken	0
13.	Professional Membership	0
14.	M.Phil. / Ph.D. Produced	0 / 0

1. National level Seminar on **"Molecular Evolution, Systematics and Ecology"** sponsored by DBT star college scheme organized by Jamal Mohamed College (Autonomous), Tiruchirappalli-24 at Jamal Mohamed College (Autonomous), Tiruchirappalli-24 during 16/02/2022 to 17/02/2022.
2. National level Workshop on **"Academic and Research Writing"** sponsored by Department of English & IQAC organized by Department of English & IQAC at Shri Muktanand College, Gangapur, Dist. Aurangabad (M.S) during 04/01/2022 to 04/01/2022.
3. National level Workshop on **"HIGH PERFORMANCE COMPUTING AND AI FOR COMPUTATIONAL BIOLOGY"** sponsored by Indian Institute of Technology Kharagpur and Tezpur University organized by Indian Institute of Technology Kharagpur and Tezpur University at during 29/10/2021 to 30/10/2021.
4. National level Seminar on **"MOOCS and E-Content Development"** sponsored by UGC organized by SAMBALPUR UNIVERSITY at during 20/09/2021 to 20/09/2021.
5. State level Seminar on **"Immunity Boosters for Covid'19"** sponsored by Department of N&D, BHC, Trichy-17 organized by Department of N&D, BHC, Trichy-17 at Department of N&D, BHC, Trichy-17 during 20/05/2021 to 20/05/2021.
6. National level Workshop on **"Omics Data Analysis"** sponsored by Department of Biotechnology organized by Department of Biotechnology at Jaypee Institute of Information Technology, Noida during 16/04/2021 to 17/04/2021.
7. State level Workshop on **"A two- day workshop on E-Resources"** sponsored by N-List organized by Bishop Heber College at Tiruchirappalli during 26/03/2021 to 27/03/2021.
8. State level Seminar on **"Future of Examinations: Blooms taxonomy and Multiple Assessment Tools"** sponsored by G.T.N Arts College(Autonomous), Dindigul, Tamilnadu organized by G.T.N Arts College(Autonomous), Dindigul, Tamilnadu at G.T.N Arts College(Autonomous), Dindigul, Tamilnadu during 08/06/2020 to 08/06/2020.
9. State level Seminar on **"Application of Bioinformatics in drug design"** sponsored by organized by at Kalalnarkarunanithi Institute of technology, Coimbatore during 13/05/2020 to 13/05/2020.
10. State level Workshop on **"Modern trends in biology organized by department of biotechnology"** sponsored by Science Academics organized by Cauvery College of arts and science at Cauvery College of arts and science during 21/09/2017 to 22/09/2017.
11. College level Workshop on **"Curriculum Design and Evaluation Techniques"** sponsored by DBT organized by Bishop Heber College, Tiruchirappalli at Bishop Heber College, Tiruchirappalli during 21/11/2016 to 22/11/2016.
12. College level Orientation on **"Faculty Development Programme"** sponsored by - organized by IQAC, Bishop Heber College. at Tiruchirappalli during 27/10/2015 to 27/10/2015.
13. State level Workshop on **"Structural Bioinformatics and protein 3D structure visualization"** sponsored by - organized by Department of Biotechnology and Bioinformatics at Bishop Heber College, Tiruchirappalli during 28/07/2014 to 28/07/2014.
14. State level Workshop on **"Protein Separation Technique and Molecular Docking Studies, PRODOCK 2014"** sponsored by - organized by Department of Biotechnology and Bioinformatics at Bishop Heber College, Tiruchirappalli during 21/03/2014 to 22/03/2014.
15. International level Conference on **"Biotechnological innovations towards global development"** sponsored by - organized by Department of Biotechnology and Bioinformatics at Bishop Heber College, Tiruchirappalli during 09/01/2013 to 10/01/2013.
16. State level Workshop on **"Computer Aided Drug Design"** sponsored by - organized by Department of Biotechnology and Bioinformatics at Bishop Heber College, Tiruchirappalli during 05/03/2012 to 05/03/2012.

17. College level Orientation on "**Capacity Building programme**" sponsored by - organized by IQAC at Bishop Heber College, Tiruchirappalli during 25/02/2012 to 25/02/2012.
18. National level Workshop on "**Drug Discovery and Development**" sponsored by - organized by Bharathidasan University, Tiruchirappalli at Bharathidasan University, Tiruchirappalli during 02/11/2011 to 03/11/2011.
19. State level Refresher on "**Bioinformatics**" sponsored by UGC organized by UGC academic College, Tiruchirappalli at UGC academic College, Tiruchirappalli during 03/12/2010 to 23/12/2010.
20. State level Seminar on "**recent trends in chemical research (RTCR)**" sponsored by - organized by Department of Chemistry at Jamal Mohamed College, Tiruchirappalli during 05/10/2010 to 06/10/2010.
21. National level Seminar on "**Quality enhancement in teaching research and extension in higher education institutions prospects and problems**" sponsored by NAAC organized by IQAC at Jamal Mohamed College, Tiruchirappalli during 15/04/2010 to 16/04/2010.
22. State level Seminar on "**Frontier studies in chemistry**" sponsored by UGC organized by Department of Chemistry at Jamal Mohamed College, Tiruchirappalli during 09/02/2010 to 10/02/2010.
23. National level Workshop on "**Sequence analysis and molecular simulation**" sponsored by DBT organized by Anna University, Chennai at Anna University, Chennai during 02/12/2009 to 05/12/2009.
24. National level Conference on "**Bioinformatics tools for gene and protein analysis**" sponsored by - organized by Shrimati Indira Gandhi College, Tiruchirappalli at Shrimati Indira Gandhi College, Tiruchirappalli during 07/09/2007 to 08/09/2009.
25. National level Seminar on "**Emerging trends in life sciences**" sponsored by UGC organized by Department of Biotechnology at Bishop Heber College, Tiruchirappalli during 24/08/2006 to 25/08/2006.





1. **"Insilico Docking Studies of natural compounds on Leptospira interrogans"** in the National conference on *Computational Analysis of Molecular Data in synergy with Biological applications-2017 (CAMB-17)* sponsored by -, organized by Department of Biotechnology and Bioinformatics at Bishop Heber College, Tiruchirappalli during 03/02/2017 to 03/02/2017.
2. **"Antimicrobial potential of andrographis paniculata extracts against candida species"** in the International conference on *Biodiversity&bio active natural products for human welfare* sponsored by -, organized by Karur Govt arts college at Karur during 10/02/2016 to 12/02/2016.
3. **"Insilico docking study of Fucoidan, Galactomano, Glabranine, Huperoside with envelope protein of Dengue Virus"** in the International conference on *International Conference on Frontiers in Life Science (ICFLS-2016)* sponsored by -, organized by Department of Botany, St. Joseph College, Trichy at St. Joseph College, Trichy during 07/01/2016 to 08/01/2016.
4. **"Comparative study of curry leaves and turmeric compounds by molecular docking"** in the National conference on *Recent trends in life sciences (RTLS-15)* sponsored by -, organized by Jamal Mohamed College, Tiruchirappalli at Tiruchirappalli during 25/02/2015 to 25/02/2015.
5. **"Insilico approach on the compound of Limonia acidissima for oral cancer"** in the International conference on *Recent Advances in Synthetic Biology (RASB-15)* sponsored by -, organized by Department of Biotechnology and Bioinformatics, Bishop Heber College at Tiruchirappalli during 08/01/2015 to 09/01/2015.
6. **"Insilico study of grape seed compounds with oral cancer causing protein HER2"** in the National conference on *Recent advances in medicinal and aromatic plants* sponsored by -, organized by St. Joseph College, Tiruchirappalli- at Tiruchirappalli during 05/02/2014 to 05/02/2014.
7. **"Insilico studies on curcumin and derivatives against Human OSC."** in the National conference on *National seminar on frontiers in biotechnology (NSFB 2013)* sponsored by CSIR, organized by Nehru Memorial College, Puthanampatti at Nehru Memorial College, Puthanampatti during 08/08/2013 to 09/08/2013.
8. **"Carbon Distribution in Toxic proteins"** in the International conference on *Current concepts in Bioinformatics* sponsored by -, organized by Bharathiyar University, Coimbatore. at Coimbatore. during 19/03/2012 to 19/03/2012.
9. **"Study on carbon distribution at protein regions of disorder"** in the International conference on *IJBBB 2012* sponsored by -, organized by IJBBB at Jeya Pushpam Hotel, Chennai during 10/03/2012 to 11/03/2012.
10. **"Carbon contents of H1N1 proteins"** in the International conference on *ICBBB 2011* sponsored by -, organized by ICBBB at Excelsior Hotel, Peninsula, Singapore during 26/02/2011 to 28/02/2011.
11. **"How Viruses assemble and Bud?"** in the National conference on *Proteomics applications: Perspectives in Health care-NCPPH'10* sponsored by -, organized by Karunya University, Coimbatore at Karunya University, Coimbatore during 28/01/2010 to 29/01/2010.
12. **"Computational biology of H1N1 Virus"** in the National conference on *Recent trends in structural bioinformatics and computational biology* sponsored by -, organized by Pondicherry University, Pondicherry at Pondicherry University, Pondicherry during 16/09/2009 to 18/09/2009.
13. **"Identification of inhibitors for papilloma virus type16 e6 protein based on their structure"** in the National conference on *Recent advances in biotechnology NSRAB-09* sponsored by -, organized by Department of Biotechnology at Bishop Heber College, Tiruchirppalli during 18/03/2009 to 18/03/2009.
14. **"How viral proteins differ from normal proteins: A case study with Arenavirus"** in the National conference on *Recent trends in Bioscience NSRTB-09* sponsored by -, organized by Thanthai hans roever college,Perambalur at Thanthai hans roever college,Perambalur during 13/03/2009 to 14/03/2009.



1. **"IDENTIFICATION OF POTENTIAL T CELL EPITOPES OF H1N1 INFLUENZA VIRUS FOR VACCINE DESIGN - AN IMMUNOINFORMATICS AND MOLECULAR DOCKING APPROACH"**  
published in UTTAR PRADESH JOURNAL OF ZOOLOGY (PEER REVIEW) Vol. 42, Issue No. 24, December 2021 ISSN : 0256-971X (P).
2. **"ANTI-CANCER ACTIVITY OF Ganoderma lucidum MYCELIUM ALCOHOLIC EXTRACT AGAINST BREAST CANCER CELLS"** published in UTTAR PRADESH JOURNAL OF ZOOLOGY (PEER REVIEW) Vol. 42, Issue No. 24, December 2021 ISSN : 0256-971X (P).
3. **"MULTI-TARGET APPROACH TO IDENTIFY PROMISING POTENTIALS FOR SARS-COV2"**  
published in WORLD JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES (PEER REVIEW) Vol. 10, Issue No. 8, July 2021 ISSN : 2278 – 4357.
4. **"In Silico Docking Studies Of Selective Natural Inhibitor Against Pb1 Protein Of Influenza A (H1n1) Virus"** published in International Journal of Pharmacy and Biological Sciences (PEER REVIEW) Vol. 8, Issue No. 4, October 2018 ISSN : 2321-3272.
5. **" INSILICO ANALYSIS OF PB1 PROTEIN OF INFLUENZA A VIRUS"** published in Int J Pharma Bio Sci (E-JOURNAL) Vol. 8, Issue No. 3, July 2017 ISSN : 0975-6299.  
  
Impact factor , Scopus Index 0.274, h - index , Citation index
6. **"Insilico Approach for the asseement of oral cancer property on Limonia acidissima"**  
published in International Journal of Pharmaceutical Science and Research (E-JOURNAL) Vol. 7, Issue No. 3, January 2016 ISSN : 0975-8232.
7. **"Prediction of activesites in some cancer related proteins by CARD analysis"** published in International Journal of Pharma and Biosciences (E-JOURNAL) Vol. 5, Issue No. 2, April 2014 ISSN : 0975-6299.  
Impact factor , Scopus Index yes, h - index , Citation index
8. **"BOSS-Bishop Open Software Suite: A software package for sequence analysis"** published in International Journal of computational Bioinformatics and Insilico Modeling (E-JOURNAL) Vol. 3, Issue No. 2, January 2014 ISSN : 2320-0634.  
Impact factor , Scopus Index -, h - index -, Citation index -
9. **"CARd-3D: Carbon distribution in 3D structure program for globular proteins"** published in Bioinformation (E-JOURNAL) Vol. 10, Issue No. 3, January 2014 ISSN : 093-2063.  
  
Impact factor , Scopus Index , h - index 10, Citation index
10. **"The nature of proteins in influenza"** published in Health (E-JOURNAL) Vol. 4, Issue No. , October 2012 ISSN : 1949-5005.
11. **"Study on carbon distribution at protein regions of disorder"** published in International Journal of Bioscience, Biochemistry and Bioinformatics (E-JOURNAL) Vol. 2, Issue No. 2, January 2012 ISSN : 2010-3638.

12. **"Adenine in viral mRNAs manipulates the carbon in proteins"** published in International Journal of Bioscience, Biochemistry and Bioinformatics (E-JOURNAL) Vol. 1, Issue No. 4, January 2011 ISSN : 2010-3638.
13. **"Allotment of carbon is responsible for disorders in proteins"** published in Bioinformation (E-JOURNAL) Vol. 6, Issue No. 8, January 2011 ISSN : 093-2063.  
  
Impact factor , Scopus Index , h - index 10, Citation index
14. **"Carbon distribution to toxic effect in toxin proteins"** published in Bioinformation (E-JOURNAL) Vol. 8, Issue No. 15, January 2011 ISSN : 093-2063.  
  
Impact factor , Scopus Index , h - index 10, Citation index
15. **"What Might be the Difference in Viral Proteins?"** published in International Journal of Bioinformatics Research (E-JOURNAL) Vol. 1, Issue No. , January 2009 ISSN : 0974-6439.

#### Publication in Books - 1

1. **Application of Bioinformatics in Life Sciences**. *Emerging Trends in Life Sciences*. Tamil Nadu :SCIENG Publications, February 2022.

#### RESEARCH PROJECTS - 1

1. Minor project entitled **"Mutation, Annotation, Peptide Designing and Targeting V715 position in PB1 protein of Influenza A virus"** (PRINCIPAL INVESTIGATOR), Sponsored by UGC, during 01/01/2014 to 05-01-2019 [Completed].

#### TRAINING PROGRAMME - 6

- # SELECT level FDP on **"Big Data Analytics"** Sponsored by , Organized by at during 07/02/2022 - 15/02/2022.
- # NATIONAL level FDP on **"Effective Teaching Strategies in Higher Education"** Sponsored by , Organized by St. Mary's College, Puthanangadi at during 06/09/2021 - 12/09/2021.
- # NATIONAL level FDP on **"Impact of Covid 19 on Research Initiatives Innovation"** Sponsored by , Organized by Institution's Innovation Council of Greater Kolkata College of Engineering Management at during 01/06/2021 - 05/06/2021.
- # NATIONAL level ORIENTATION on **"Open Source tools for research"** Sponsored by MHRD, Organized by Ramanujan College, University of Delhi at New Delhi during 08/06/2020 - 14/06/2020.
- # NATIONAL level on **"Faculty Development Program on Online Teaching & E-content"** Sponsored by IIDE, Organized by at during 03/06/2020 - 04/06/2020.
- # NATIONAL level ORIENTATION on **"Comprehensive e-Learning to e-Training guide for administrative work"** Sponsored by MHRD, Organized by Ramanujan College, University of Delhi at New Delhi during 25/05/2020 - 05/06/2020.





**Signature of Staff**  
**(K.AKILA)**