

## Ms.SHERLIN ROSITA A

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

E-mail : sherlinrosita.bi@bhc.edu.in

Phone : 9842261232

Web:

### Qualification

| Degree | Branch                                   | Institution / University    | Year of Passing |
|--------|--|-----------------------------|-----------------|
| M.Phil | Biotechnology with allied Bioinformatics | Holy Cross College, Trichy  | 2014            |
| M.Sc   | Bioinformatics                           | Holy Cross College, Trichy, | 2011            |
| B.C.A  | Computer applications                    | Holy Cross College, Trichy, | 2009            |

### Additional Qualification

| Name of Course | Place of Study | Date       | Duration |
|----------------|----------------|------------|----------|
| PGDCA          | NIIT, TRICHY   | April-2009 | 1 year   |

### Work Experience

| Name of Institution | Address of Institution                        | Designation         | From       | To         |
|---------------------|---|---------------------|------------|------------|
| Holy Cross College  | Holy Cross College<br>Teppakulam,<br>Trichy-1 | Assistant Professor | 18/06/2014 | 15/04/2016 |

### Teaching / Research Experience

**U.G. :** 6 years      **P.G. :** 8 years      **M.Phil.**      **Ph.D.**

### Research Guidance

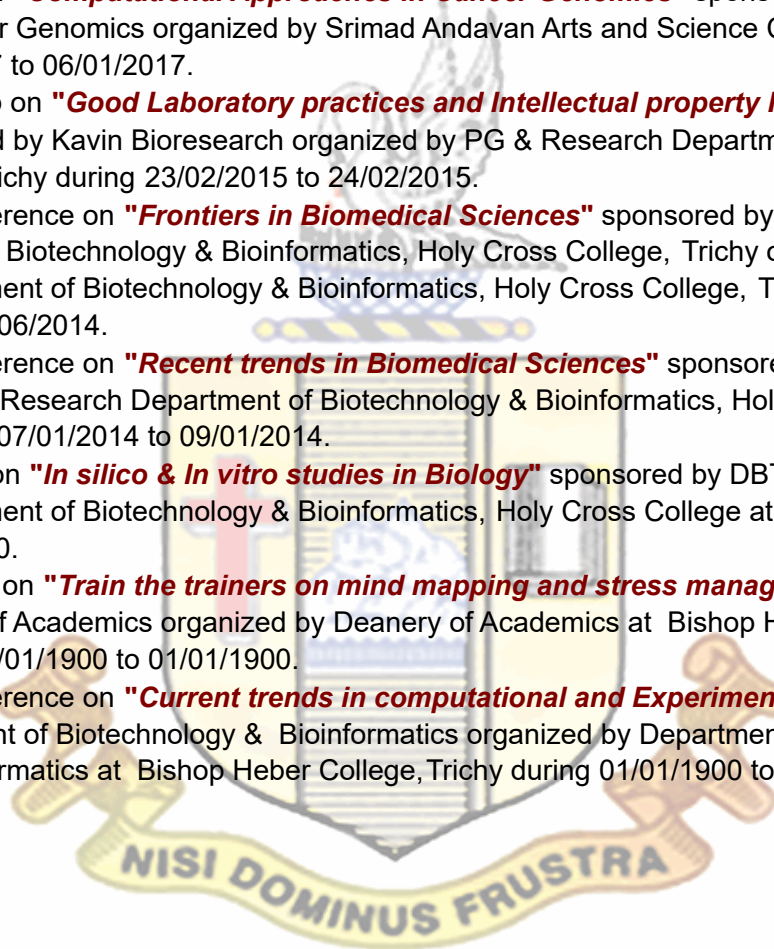
**U.G. :** 30      **P.G. :** 20      **M.Phil. :**      **Ph.D. :**

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| 14. | <b>M.Phil. / Ph.D. Produced</b>                     | <b>0 / 0</b> |

1. National level Workshop on "**Online Workshop Computational Chemistry – A Leeway to Theoretical Chemistry**" sponsored by DBT organized by PG & Research Department of Chemistry at PSGR Krishnammal College of Women, Coimbatore during 27/07/2020 to 29/07/2020.
2. National level Workshop on "**Faculty Development Programme-Online workshop on Virtual Teaching- A Paradigm Shift from Offline to Online Teaching**" sponsored by Department of Biotechnology & Bioinformatics organized by Department of Biotechnology & Bioinformatics at Holy Cross College(Autonomous),Trichy during 15/06/2020 to 17/06/2020.
3. International level Conference on "**Stem cells in Regenerative medicine**" sponsored by PG and Research Department of Zoology organized by PG and Research Department of Zoology at Holy Cross College(Autonomous),Trichy during 06/03/2020 to 06/03/2020.
4. International level Conference on "**Frontiers in Chronic Diseases**" sponsored by DBT organized by PG and Research Department of Zoology at Bishop Heber College, Trichy during 19/02/2020 to 19/02/2020.
5. International level Conference on "**Prospectus of Biosciences in Transdisciplinary Research**" sponsored by Department of Biotechnology & Bioinformatics organized by Department of Biotechnology & Bioinformatics at Bishop Heber College, Trichy during 21/01/2020 to 22/01/2020.
6. International level Conference on "**Recent Trends in Structural Bioinformatics and CADD**" sponsored by DBT-BIF organized by Department of Bioinformatics at Alagappa University, Karaikudi during 11/12/2019 to 13/12/2019.
7. International level Conference on "**Application of Basic Sciences**" sponsored by Department of Mathematics organized by Department of Mathematics at Bishop Heber College, Trichy during 19/11/2019 to 21/11/2019.
8. College level Workshop on "**An intensive coaching for UGC/CSIR-NET examinations**" sponsored by Department of IQAC organized by Department of IQAC at Bishop Heber College, Trichy during 15/11/2019 to 16/11/2019.
9. State level Workshop on "**Research based pedagogical tools in Science through inquiry and research**" sponsored by United board for Christian education in Asia organized by PG and Research Department of Chemistry at Bishop Heber College, Trichy during 17/10/2019 to 18/10/2019.
10. College level Workshop on "**Student Counselling for young teachers**" sponsored by Anugraha Capuchin Institute of Counselling, Dindugul, organized by Department of Social Work at Bishop Heber College, Trichy during 26/06/2019 to 26/06/2019.
11. Regional level Workshop on "**IGNITE-2019**" sponsored by DBT-STAR COLLEGE SCHEME organized by Deanery of Academics at Bishop Heber College, Trichy during 24/06/2019 to 25/06/2019.
12. College level Workshop on "**Academic and administrative audit in pursuit of excellence in higher education through intensive training for leaders of academic institutions**" sponsored by United board for Christian education in Asia organized by Research and Development Cell at Bishop Heber College, Trichy during 15/04/2019 to 17/04/2019.
13. National level Conference on "**Unravelling Biometabolites with bioactivity**" sponsored by DBT organized by Department of Biotechnology & Bioinformatics at Bishop Heber College, Trichy during 25/02/2019 to 25/02/2019.
14. National level Conference on "**Recent Trends in structural Bioinformatics and Computer Aided Drug Designing**" sponsored by DST-FIST&DBT-BIF,RUSA 2.0 organized by Department of Bioinformatics at Alagappa University ,Karaikudi during 12/02/2019 to 15/02/2019.
15. State level Workshop on "**An overview of ngs methods, ngs fileformats & data analysis**" & **Hands on workshop – "variant analysis of ngs data using galaxy server"** sponsored by - organized by Department of Bioinformatics at Bishop Heber College, Trichy during 23/01/2019 to 23/01/2019.
16. International level Conference on "**Emerging trends in Biological Research**" sponsored by Department of Biotechnology and microbiology, Jamal Mohamed College organized by Department of Biotechnology and microbiology, Jamal Mohamed College at Trichy during 03/03/2018 to 03/03/2018.

17. National level Conference on "**Recent Trends in structural Bioinformatics and Computer Aided Drug Designing**" sponsored by DST-FIST&DBT-BIF organized by Department of Bioinformatics, at Karaikudi during 20/02/2018 to 23/03/2018.
18. College level Workshop on "**Discovery and development of novel therapeutics through insilico methods**" sponsored by Department of Biotechnology and Bioinformatics, Bishop Heber College, organized by Department of Biotechnology and Bioinformatics, Bishop Heber College, at Trichy during 14/02/2018 to 01/01/1900.
19. International level Conference on "**International Conference on Frontiers in Nano Biotechnology**" sponsored by DST-SERB organized by Department of Biotechnology and Bioinformatics, Bishop Heber College, at Trichy during 08/09/2017 to 09/09/2017.
20. State level Workshop on "**Computational Approaches in Cancer Genomics**" sponsored by Centre for Stem Cell and Cancer Genomics organized by Srimad Andavan Arts and Science College at Trichy during 05/01/2017 to 06/01/2017.
21. National level Workshop on "**Good Laboratory practices and Intellectual property Rights in Biosciences**" sponsored by Kavin Bioresearch organized by PG & Research Department of Zoology Holy Cross College at Trichy during 23/02/2015 to 24/02/2015.
22. International level Conference on "**Frontiers in Biomedical Sciences**" sponsored by PG & Research Department of Biotechnology & Bioinformatics, Holy Cross College, Trichy organized by PG & Research Department of Biotechnology & Bioinformatics, Holy Cross College, Trichy at Trichy during 18/06/2014 to 18/06/2014.
23. International level Conference on "**Recent trends in Biomedical Sciences**" sponsored by UGC & DBT organized by PG & Research Department of Biotechnology & Bioinformatics, Holy Cross College at Trichy during 07/01/2014 to 09/01/2014.
24. National level Seminar on "**In silico & In vitro studies in Biology**" sponsored by DBT organized by PG & Research Department of Biotechnology & Bioinformatics, Holy Cross College at Trichy during 11/10/2010 to 13/10/2010.
25. College level Workshop on "**Train the trainers on mind mapping and stress management**" sponsored by Deanery of Academics organized by Deanery of Academics at Bishop Heber College, Trichy during 01/01/1900 to 01/01/1900.
26. International level Conference on "**Current trends in computational and Experimental Biology**" sponsored by Department of Biotechnology & Bioinformatics organized by Department of Biotechnology & Bioinformatics at Bishop Heber College, Trichy during 01/01/1900 to 01/01/1900.



1. **"Identification of potential inhibitors for TNIK receptor of Colorectal Cancer through Structure based Virtual screening and Molecular docking approach"** in the International conference on *International conference on Frontiers in Chronic Diseases* sponsored by -, organized by Department of Zoology, Bishop Heber College at Trichy during 11/02/2020 to 12/02/2020.
2. **"Detailed Study on Foam Cell Scavenger Receptors Type I and II: A Novel Therapeutics for Cardiovascular Diseases"** in the International conference on *International conference on Prospectus of Biosciences in Transdisciplinary research* sponsored by -, organized by Department of Biotechnology and Bioinformatics, Bishop Heber College, at Trichy during 21/01/2020 to 22/01/2020.
3. **"Structural Insights on Smoothed Receptor- A Promising Target for Cancer Stem Cell Degeneration"** in the International conference on *International conference on Prospectus of Biosciences in Transdisciplinary research*, organized sponsored by -, organized by Department of Biotechnology and Bioinformatics, Bishop Heber College at Trichy during 21/01/2020 to 22/01/2020.
4. **"Targeting cancer stem cells: Role of Hedgehog signaling pathway in tumorigenesis and tumor resistance"** in the International conference on *International conference on Recent Trends in structural Bioinformatics and Computer Aided Drug Designing*, sponsored by -, organized by Department of Bioinformatics, Alagappa University at Trichy during 18/12/2019 to 19/12/2019.
5. **"Drug repurposing- Atorvastatin a potent drug in Cardiovascular as Gsk-3 Beta inhibitor in Alzheimer's disease"** in the National conference on *Unravelling Biometabolites with bioactivity* sponsored by DBT, organized by Department of Biotechnology and Bioinformatics at Bishop Heber College, Trichy during 25/02/2019 to 25/02/2019.
6. **"Wnt signalling Pathways in Colorectal Cancer-Poster Presented"** in the International conference on *Application and Development in Applied Sciences and Research* sponsored by , organized by Department of Biotechnology and Bioinformatics at Holy Cross College, Trichy during 07/02/2019 to 08/02/2019.
7. **"Metabolic pathway and molecular interaction analysis: A comparative genomic study for the identification of novel therapeutic drug targets against staphylococcus aureus"** in the International conference on *Emerging trends in Biological Research* sponsored by UGC, organized by organized by Department of Biotechnology and Microbiology, Jamal Mohammed College at Trichy during 03/03/2018 to 03/03/2018.
8. **"GSK3-Beta Inhibition –An attractive target in Alzheimer's Disease therapeutics"** in the National conference on *Recent Trends in structural Bioinformatics and Computer Aided Drug Designing* sponsored by , organized by Department of Bioinformatics, Alagappa University at Karaikudi during 20/02/2018 to 23/03/2018.
9. **"Green synthesis of silver nanoparticles stabilized by Adathoda vasica against cervical cancer"** in the International conference on *International Colloquim on Bionanomaterials and Bionanotechnology* sponsored by , organized by Department of Biochemistry, St. Joseph's College at Trichy during 08/02/2018 to 08/02/2018.
10. **"Predicting the protein-peptide ligand coupling for the stabilization of nano carrier drug delivery system in cancer through in silico analysis"** in the International conference on *Bionanomaterials and Bionanotechnology* sponsored by , organized by Department of Biochemistry, St. Joseph's College at Trichy during 08/02/2018 to 08/02/2018.
11. **"In-silico docking studies on anticancerous polyphenolic phytochemicals targeting the BH3 domain of Bcl-xL receptor in apoptotic pathway"** in the International conference on *Recent trends in Biomedical Sciences* sponsored by DST-FIST & DBT, organized by PG & Research Department of Zoology, Biotechnology & Bioinformatics, Holy Cross College, Trichy at Trichy during 07/01/2014 to 01/07/2014.

1. **"Ligand based pharmacophore model development for anti androgen receptor drugs for treating Prostate Cancer"** published in International Journal of Pharmaceutical Sciences and Research (SELECT) Vol. , Issue No. , January 1900 ISSN : ---.
2. **"Molecular Docking analysis of the TNIK Receptor protein with a potential Inhibitor from the NPACT database"** published in Bioinformation (SELECT) Vol. , Issue No. , January 1900 ISSN : ---.
3. **"In Silico Pharmacokinetics and Molecular Docking of Novel Bioactive Compound (11-Methoxy-2-Methyltridecane-4-OI) for Inhibiting Carbohydrates Hydrolyzing Enzyme"** published in Taylor and Francis (SELECT) Vol. , Issue No. , January 1900 ISSN : ---.
4. **"Bioactive compounds from marine resources against novel corona virus (2019-nCoV): in silico study for corona viral drug."** published in J.Natural Product Research, Taylor and Francis aylor and Francis (SELECT) Vol. , Issue No. , January 1900 ISSN : ---.
5. **"TRAF2 and NCK-interacting kinase inhibitors for colorectal cancer; in vitro and theoretic validations"** published in ACS-Combinatorial Science (SELECT) Vol. , Issue No. , January 1900 ISSN : ---.
6. **"In silico evaluation of isatin-based derivatives with RNA-dependent RNA polymerase of the novel coronavirus SARS-CoV-2"** published in Journal Biomolecular Structure and Dynamics, Taylor and Francis (SELECT) Vol. , Issue No. , January 1900 ISSN : ---.
7. **"A Computational Approach to Understand the Analysis of Sansevieria trifasciata Phytochemicals against Nicotine-Induced Lung Cancer"** published in Indian Journal of Natural Sciences (SELECT) Vol. , Issue No. , January 1900 ISSN : ---.
8. **"Type-II Isoform of Scavenger Receptor Shows Significant Extra Cellular Segment: Detailed Computational Analysis"** published in SSRN: <https://ssrn.com/abstract=3528167> Elseiver (CONFERENCE PROCEEDING) Vol. , Issue No. , January 1900 ISSN : ---.
9. **"Analysis of Chemoresistance Mutations and Allosteric in Smoothed Receptor through Normal Mode Analysis"** published in SSRN: <https://ssrn.com/abstract=3528158> Elseiver (CONFERENCE PROCEEDING) Vol. , Issue No. , January 1900 ISSN : ---.

## Publication in Books

- 1

1. ***Regeneration of Beta Cells by Inhibition of pro-Apoptotic Proteins through Phytocompound in STZ Induced Diabetic Albino Wistar Rats: In Vivo and In Silico Approach. Structure and Health Effects of Natural Products on Diabetes Mellitus.*** :Springer, January 1900.

\* Life member of Bioinformatics Drug Discovery Society during 01/06/2018 - Till Date

**Additional Information**

@ CURRENT RESEARCH FOCUS

- Computational studies on Colorectal cancer
- Modelling metabolic interactions
- Studying cell signaling pathways
- Protein-Protein Interaction



**Signature of Staff  
(SHERLIN ROSITA A)**