



# SRIMAD ANDAVAN ARTS AND SCIENCE COLLEGE (AUTONOMOUS)



## FACULTY PROFILE

<b>Name</b>	: Dr. T. Siva Vijayakumar
<b>Qualification</b>	: M.Sc., Ph.D., D.Sc. ( <i>Honoris Causa</i> )
<b>Designation</b>	: Assistant Professor
<b>Staff Employment ID</b>	: F00BT338
<b>Date of Joining in collegiate service</b>	: 01/06/2014
<b>Date of Joining in our college</b>	: 01/07/2016
<b>Research Experience (In years)</b>	: 15 Years
<b>Research Scholars – Guiding/Guided</b>	: M.Phil., : 01 (Guided) Ph.D., : 04 (Pursuing)
<b>Area of Research</b>	: Aquatic Nanotoxicology, Nanobiotechnology Neurodegenerative and Gerontology study
<b>Research Publications (List of Publications -Annexure -I)</b>	: Total No. : 37 (Enclosed) Citations : 283 h-index : 08 i10 index : 08 ORCID ID. : ( <a href="https://orcid.org/0000-0002-9853-1664">https://orcid.org/0000-0002-9853-1664</a> ) College Website: <a href="https://andavancollege.ac.in/staff_profile.php?sid=F00BT338">https://andavancollege.ac.in/staff_profile.php?sid=F00BT338</a> Google Scholar ID: <a href="https://scholar.google.com/citations?user=YKV CJ7YAAAAJ&amp;hl=en&amp;oi=ao">https://scholar.google.com/citations?user=YKV CJ7YAAAAJ&amp;hl=en&amp;oi=ao</a> Web of Science ResearcherID: <a href="https://orcid.org/0000-0002-9853-1664">CAI-2570-2022/</a>
<b>Books/Chapters Published (Annexure –II)</b>	: Total No.: 11
<b>Patents (Annexure -III)</b>	: Total No. : 05 (Enclosed)
<b>Major/Minor Projects received (Annexure - IV)</b>	: Total No. : NIL
<b>Consultancies</b>	: Total No. : 01

		<b>ACP Mushroom Cultivation, Keeranur, Pudukkotai Dt. 622502.</b>
<b>Conferences/Seminars (Annexure -V)</b>	:	<p><b>Attended : 29</b> <b>List : Enclosed</b></p> <p><b>Presented : 03</b> <b>List : Enclosed</b></p> <p><b>Training : 05</b> <b>List : Enclosed</b></p> <p><b>Refresher courses attended : 03</b></p> <p><b>Winter School attended : 01</b></p>
<b>Workshops (Annexure -VI)</b>	:	<b>Attended No.: 08</b>
<b>Staff achievements</b>	:	<p style="text-align: center;"><b><u>Details of Awards received</u></b></p> <p>1. <b>“Innovative Research Award” (2023)</b> by Rovever agricultural College, Perambalur</p> <p>2. <b>“Honorary Doctrin De Science Award - In Biotechnology” (2021)</b> D.Sc. (<i>Honoris Causa</i>) 2021 By International Agency for Standards and Rating</p> <p>2. <b>“Research Excellence Award” (2021)</b> by Institute of Scholars: ISO Certified Institute By International Accurate Certification Accredited by UASL</p> <p>3. <b>“Young Investigator Award” (2020)</b> DERO Deccan Environmental Research Organization, Vijayapur, Karnataka-586104.</p> <p>4. <b>“Best Young Scientist Award” (2017)</b> PEARL Foundation Educational Excellence Awards to Higher Education in India 2017 on 10<sup>th</sup> December, 2017 at Fortune Pandiyan Hotel, Race Course Road, KK Nagar, Race Course Colony, Madurai – 625 002, Tamil Nadu.</p> <p style="text-align: center;"><b>Details of Fellowships availed:</b></p> <p><b>University Research fellow : 2009</b> <b>UGC - JRF : 2010</b></p>
<b>Extension Activities (Eg. NSS, NCC, YRC)</b>	:	<p><b>Rank: Flying Officer</b></p> <p><b>Associate NCC Officer (AIR WING)</b></p> <p><b>3TN Air Sqn (TECH) NCC, Trichy</b></p>

<b>Positions held</b>	: <ol style="list-style-type: none"> <li>1. <b>Flying Officer</b> - Associate NCC Officer (AIR WING)</li> <li>2. Placement Coordinator</li> <li>3. IPR Coordinator</li> <li>4. Antidrug Member</li> </ol>
<b>Membership in academic /Professional Bodies</b>	: <ol style="list-style-type: none"> <li>1. Ethical Committee Member - Expert Committee Member for Molecular Biology in Plasma art Resto Pvt Ltd</li> <li>2. Member in DERO Deccan Environmental Research Organization</li> <li>3. InSc Professional Member – Institute of Scholars</li> <li>4. Member Other University of BoS in Biotechnology for UG</li> </ol>
<b>Online Courses FDP</b>	: Completed :05
<b>Journal Reviewer details</b>	: <ol style="list-style-type: none"> <li>1. Reviewer for the International Journal of Healthcare Information Systems and Informatics (IJHISI).</li> <li>2. Reviewer for the International Journal of Applied Research on Public Health Management (IJARPHM).</li> <li>3. The International Journal of Applied Nanotechnology Research (IJANR) as a reviewer.</li> <li>4. Reviewer for Journal of Institute of Scholars (JInSc)</li> </ol>
<b>Resource person</b>	: <p>Total No.: 7</p> <ol style="list-style-type: none"> <li>1. <b>Chair person to Bharathiar University, Coimbatore. “MOTIF 2023”</b></li> <li>2. <b>“Mentor”</b> Peer to Peer Discussion on <b>Nanobiotechnology- Ayyanadar Janaki Ammal College, Sivakasi</b></li> <li>3. Resource Person to St.Joseph College, Trichy <b>“Nanotechnology- Different Phases”</b></li> <li>4. Resource person to NSS <b>“Roles &amp; Responsibilities of students towards Nation building”</b></li> </ol>

		<p>5. Resource person to Government college of Technology, Coimbatore for “<b>Mushroom Cultivation</b>”.</p> <p>6. As Resource person to <b>RVS Agriculture</b> College, Thanjavur for “<b>Environment and the Responsibilities</b>”</p> <p>7. Resource person to <b>Bharath Institute of Higher Education and Research, Deemed to be University, Chennai.</b> “<b>Nanotechnology- Timeline &amp; Milestone</b>”</p>
<b>Doctoral Committee member</b>	:	<b>Total No.: 02</b>
<b>Official Contact details for Correspondence</b>	:	<p>Dr. T. Siva Vijayakumar, Assistant Professor, Department of Biotechnology, Srimad Andavan Arts and Science College (Autonomous), No.7, Nelson Road, T.V.Koil, Tiruchirappalli-620005.</p> <p>Email id(s):<a href="mailto:shiva.bloom23@gmail.com">shiva.bloom23@gmail.com</a> <a href="mailto:drsiva@andavacollege.ac.in">drsiva@andavacollege.ac.in</a></p>

### Research Papers published in National / International Journals

- Gobalan K, Sudharshan P, Bupesh G, Koperuncholan M, Sumithra D, Prabhu K, **Siva Vijayakumar T**, Vasanth S. Probiotics- infused Withania somnifera's effectiveness as a feed ingredients for Shrimp development. European chemical Bulletin. Volume 12 pg 386-393 (2023)
- Gobalan K, Sudharshan P, Bupesh G, Purushothaman T, Prabhu K, **Siva Vijayakumar T**, Vasanth S. Fabrication and Characterisation of Silver Nanoparticles with Illicium Verum seed extract and Evaluation of its anti-bacterial Activity. European chemical Bulletin Volume 12 pg 377-385 (2023)
- Gobalan K, Sudharshan P, Bupesh G, Koperuncholan M, **Siva Vijayakumar T**, Vasanth S. Complete overview of Quercetin's Pharmacological Properties and mode of Action: A Bioactive Flavonoid Frontiers in Life Science. Bhumi Publishing Page 139 (2023)
- Gobalan K, Sudharsan p, Reshma Devi R, Koperuncholan M, Sumithra D, Prabhu K, **Siva Vijayakumar T**, Vasanth S. Anti-inflammatory Activity of Ocimum tenuiflorum L. Leaf extract loaded Chitosan Nanoparticle as a drug Carrier - an In Vitro study. European chemical Bulletin Volume 1 pg 1062-1084 (2023)
- Reshma Devi Ramesh, Kalaiselvi Selvaraj, Karnan Muthusamy, Leelavathi Lakshmanan, Steffi Pulikondan Francis, **Siva Vijayakumar Tharumasivam**, Vijayalakshmi Selvakumar. Endurance of microbes against nitrogen starvation by

- altering the biochemical and physiological activities of plants. Plant- Microbe Interaction- recent advances in Molecular and Biochemical Approaches, Elsevier (2023)
6. Rajkuberan Chandrasekaran, Muthukumar Krishnan, Giridharan Bupesh, Sonu Cacko, Omkar Gawade, Sheik Hasan, Evelin George, **Tharumasivam Siva Vijayakumar**, Meenakshi Sundaram, Suresh Sagadevan. Prospective features of functional 2D nanomaterial graphene oxide in the wound healing process. Journal of Drug Delivery Science and Technology. ELSEVIER (2023).
  7. Vidhyalakshmi Thangamani, Koperuncholan Marimuthu, **Siva Vijayakumar Tharumasivam**. Datura Innoxia derived Nanoparticles for Pharmacological Applications. ELIVA press (Available in Amazon) 2023.
  8. Reshma Devi Ramesh, **Siva Vijayakumar Tharumasivam**. Mushrooms responsible to promote Gut Microbiota. Post Covid-19 New Challenges and Strategies. Taran Publication 2023.
  9. **Siva Vijayakumar Tharumasivam**, Reshma Devi Ramesh, Revathi Nandhakumar, Gowri Ayyadurai, Koperuncholan Marimuthu. Employing Microorganisms in waste water management. ELIVA press (Available in Amazon) 2023.
  10. Reshma Devi Ramesh, Revathi Nandhakumar, Gowri Ayyadurai, Selvendran Thamaraiselvan Ranjith G, Keerthana Viswanathan, **Siva Vijayakumar Tharumasivam**, Sumithra D, Koperuncholan Marimuthu. Silver nanodrug for Antimicrobial activity Produced from *Couroupita guianensis*. ELIVA press (Available in Amazon) 2023.
  11. Revathi Nandhakumar, Reshma Devi Ramesh, Gowri Ayyadurai, Abdul Rahman Kathar, **Siva Vijayakumar Tharumasivam**. Cursory Review on the part of sea Buckthorn in Anti-ageing and related Diseases/ Disorders. International Research Journal of Modernization in Engineering Technology and Science. Volume 04 July-2022.
  12. Vasanth S, **Siva Vijayakumar T**, Bupesh G, Meenakumari K, and Jasmine Buelah J. Histoarchitectural Alterations in various Tissues of *Poecilia sphenops* Exposed Three Sub Lethal Concentrations of Atrazine. Asian Journal of Biological and Life Sciences.2022; vol 11 (1) 34-38.
  13. Revathi N, Reshma Devi R, Gowri A, Kokila S, Koperuncholan M and **Siva Vijayakumar T**. International Journal of Research Publication and Reviews. 2022; Vol 3(3): 1467-1470.
  14. Gowri A, Revathi N, Reshma Devi R, Koperuncholan M and **Siva Vijayakumar T**. Beneficial Role of Fermented Rice in Healthy Lifestyle. International Journal of Multidisciplinary Research and Growth Evaluation.2022; vol 3 (2):314-316.
  15. Gowri A, Revathi N, Dharanitharan K, Subashini S, **Siva Vijayakumar T**, Benno Susai Vijayakumar A and Chitra B. comparative analysis of nutritional value in mushroom using different substrates. Contemporary Issues in Multidisciplinary Subjects. 2022; vol 1: 237-247.

16. Reshma Devi R, Revathi N, Kokila S, Gowri A, Chitra B and **Siva Vijayakumar T.** Walk on Part of Zebrafish (*Danio rerio*) as Human Vertebrate Model in Developing Research Field. International Journal of Scientific and Engineering Development.2022; vol 5 (1):214-217.
17. Revathi N, Gowri A, Kokila S, Reshma Devi Ramesh, Chitra Benno Susai vijayakumar and **Siva Vijayakumar T.** Cancer-Treatment Associated with Resvertrrol Compound. International Journal of Research Publication and Reviews. 2022; Vol 3(1): 574-576.
18. Kokila S, Revathi N, Reshma Devi R, Gowri A, Chitra B and **Siva Vijayakumar T.** Emerging Technology of Nanoparticle in Various Field. International Journal of Research Publication and Reviews. 2022; Vol 3(1): 584-586.
19. Revathi N, Gowri A, Arjunan A , Nivetha C, **Siva Vijayakumar T** and Muthuselvam M. Isolation and Characterization of Marine Endophytic Actinomycetes to Analyse the Bioactive Metabolites and their Antioxidant Properties. Recent Trends in Multidiciplinary Subjects. 2021; vol 2: 241-249.
20. Revathi N, Arjunan A, Gowri A, Priyanka U, **Siva Vijayakumar T** and Muthuselvam Short Communication: On Sirt 1 and Trem Gene Activation and Expression in Zebrafish (Anti ageing, Dementia and Anticancer Activity) by Microbial and Plant Bioactive Compounds. International Journal of All Research Education and Scientific Methodes.2021; vol 9 (7): 1959-1962.
21. Revathi N, Gowri A, Sowmiya.R , Akila. R, Muthuselvam M, and **Siva Vijayakumar T.** A Review on Role of Bitter Melon in Alzheimer's Disease. International Journal of Scientific & Engineering Research.2021; vol 12 (7):870-877.
22. Revathi N, Gowri A, **Siva Vijayakumar T.** and Muthuselvam M. A Short Review on The Role of Jamun Fruit in Various Health Associated Treatments. Multidisciplinary Research. 2021; vol 3, 297-305.
23. Revathi N, Gowri A, **Siva Vijayakumar T.** Chitra. B, and Muthuselvam M. The Impact of Music on the Brain Investigation into the Role of Rhythm in Our Daily Lives. Multidisciplinary Research. 2021; vol 3, 306-311.
24. Revathi N, Arjunan A , Nivetha C, Gowri A, **Siva Vijayakumar T.** Muthuselvam M. **Sirtuin** as molecular regulator gerontology tool a review of sirtuin system, characterization and Function in Molecular Biology. International Journal of Pharmaceutical Research.2021 13 (3).
25. Revathi N, Muthuselvam M, Gowri A, Arjunan A, Nivetha C and **Siva Vijayakumar T.** Review on Panchagavya: A boon to the societal need (Agriculture and medicinal industries). International Journal of Chemical Studies. 2021; 9(2): 113-117.
26. Jayaraju Jeyasree, Giridharan Bupesh, Sakthivel Vasanth, Joseph Pinto Jasmine Beulah, Kanniyah Pandian, Arumugam Vijaya Anand, **Tharumasivam Siva Vijayakumar.** and Lakshmi Narayanan, In-vivo Toxicological (Acute)

Characterization of Bio-synthesized Silver Nanoparticles in *Labeo rohita*. Nano Biomed. Eng., 2020, 12(2): 115-123.

27. **T. Siva Vijayakumar**, Shahid Mahboob, GiridharanBupesh, SakthivelVasanth, Khalid A Al-Ghanim, Fahad Al-Misned, Marimuthu Govindarajan. Facile synthesis and biophysical characterization of egg albumen-wrapped zinc oxidenanoparticles: A potential drug delivery vehicles for anticancer therapy. Journal of Drug Delivery Science and Technology, 2020, Volume : 60, Pages :102015
28. M.Sathiya Deepika, R. Thangam, **T. Siva Vijayakumar**, R. Sasirekha, R.T.V. Vimala, S. Sivasubramanian, S. Arun, M. Dinesh Babu, & R. Thirumurugan, Antibacterial synergy between rutin and florfenicol enhances therapeutic spectrum against drug resistant *Aeromonas hydrophila*, Microbial Pathogenesis, Volume 135,2019,103612,ISSN 0882-4010,https://doi.org/10.1016/j.micpath.2019.103612.
29. Sathya V, Bupesh G, Lakshman Raj R, Vasanth S, **Siva Vijayakumar T** and BalachandarV. Maternal Serum Biomarkers for the Early Prediction of Gestational Diabetes Mellitus, Diabetes ObesInt J 2019, 4(1): 000190.
30. S. Vasanth, G. Bupesh, **T. Siva Vijayakumar**, P. Subramanian, P. Ramasamy. Toxicity of Atrazine and Related to Testicular, Tissue Damaging Enzyme Levels In *Poecilia Sphenops*. nt J Curr Pharm Res, Vol 10, Issue 2, 75-80.
31. S.Vasanth, **T. Siva Vijayakumar**, G. Bupesh and P. Subramanian. (2017)Dose Dependent Effect of Synthetic Herbicide (ATRAZINE) On The Morphological Parameters In *Poecilia Sphenops*. ejbps, 2017, Volume 4, Issue 12 455-457.
32. G. Bupesh, C. Amutha, S. Vasanth, **T. Siva Vijayakumar**, K. Pandian, V. Balachandar, D. Gunasekaran. (2017) Enhanced Peptide Delivery and Sustainable Release of Pleurocidin Using N-Succinyl Chitosan Nanoparticle. Nano Biomed. Eng., 2017, Vol. 9, Issue. 4
33. **T. Siva Vijayakumar**, G Bupesh, K Prabhu, S Manivannan, M Beerammal, E Manikandan, M P Santhi and A Vijaya Anand. (2016) Identification of Secondary Metabolites, Antimicrobial and Antioxidant Activity of Grape Fruit (*Vitisvinifera*) Skin Extract. Dia.Obe.Int Jo 2016; 1(1): DOIJ-MSI- D0-00102.
34. **T. Siva Vijayakumar**, D.Naveenraj and S.A. Kirubakaran. Fate and upshots of Zinc oxide Nanophase as a pollutant in a fresh water fish tilapia (*Oreochromis mossabicus*) and its Physiological alterations in Hematology, Antioxidant level and Histology.
35. A. Alagesan, G. Tharani, B. Padmanaban, **T. Siva Vijayakumar** and S. Manivannan. (2016). Screening And Characterization Of Developing Resistant Cultivar Against *OdoiporusLongicollis* (Olivier) (Coleoptera: Curculionidae) Using Reference Genotypes In India. Int J Pharm PharmSci, Vol 8, Issue 7, 223-226.
36. S. Latha, R. Vijayakumar, BR. Senthil Kumar, G. Bupesh, **T. Siva Vijayakumar**, E. Manikandan, M. Maaza, R. Sri Kumar and V. Deepika. (2016) Acute and Repeated Oral Toxicity of Antidiabetic Polyherbal Formulation

Flax seed, Fenugreek and Jamun Seeds in Wistar Albino Rat. Journal of Diabetes and Metabolism. ISSN : 2155- 6156.

37. **T. SivaVijayakumar**, S. Karthikeyeni, S. Vasanth, Sivakumar, D. Sumithra and P.Subramanian. (2015). Synthesis of Zinc Oxide Nanophase by Chemical CoPrecipitation Methods Using Simple Conventional Process and its characterization studies. Bharath Research Bulletin, Volume :1, PP: 12-21, ISBN: 978-93-80509-70-9.
38. **T. Siva Vijayakumar**, S.Karthikeyeni, Arul Ganesh, S.Vasanth, R.Ramesh, M. Manimegalai, and P. Subramanian. Synthesis of Silver Doped Zinc Oxide Nanocomposite by Pulse mode Ultrasonication and its characterization studies. Journal of Nanoscience, Volume 2013, Article ID 785064, 7 pages <http://dx.doi.org/10.1155/2013/785064>.
39. S.Vasanth, G. Arul, S. Karthikeyeni, **T. Siva Vijayakumar**, V. Vignesh, M.Manimegalai, G.Bupesh, R.Thirumurugan and P.Subramanian (2015). Influence of Triazine Herbicide Exposure on Guppies (*Poecilia sphenops*) Aromatase Activities, Altered Sex Steroid Concentration and Vitellin induction. Indian Journal of pharmaceutical sciences: 77 (2): 156-162.
40. S. Karthikeyeni, **T. Siva Vijayakumar**, J. Akalya, S. Vasanth, Arul ganesh, V.vignesh, R.Thirumurugan and P.Subramanian. Decolorization of Direct orange S Dye by Ultrasonication using Iron Oxide nanoparticles. Journal of Nanoscience (2013).
41. S. Karthikeyeni, **T. Siva Vijayakumar**, S. Vasanth, Arul Ganesh, M. Manimegalai and P. Subramanian (2013). Biosynthesis of Iron oxide nanoparticles and its hematological effects on fresh water fish *Oreochromis mossambicus*. J. Acad. Indus. Res. Vol. 1(10): 645-649.
42. S.Vasanth, Arul Ganesh, **T. Siva Vijayakumar**, S. Karthikeyeni, M. Manimegalai and P. Subramanian (2012). Assessment of anthracene on hepatic and antioxidant enzyme activities in *Labeorohita* (Hamilton, 1822). International Journal of Pharmacy & Life Science. Vol.3(5):1696-1704.
43. G. Bupesh, C. Amutha, K. Saravanamurali, P. Gunasekaran, S.Vennila, A.Kannan, **T. Siva Vijayakumar**, B.V.Suresh babu, Salma Sulthana Syed and P. Suramanian (2012). Influence of Dietary Intake of *Alternanthera Sessilis* Hydro Alcoholic Extract on the Immune Response of *Oreochromis mossambicus*. Journal of Herbal Science and Technology Vol.9 (3):6-10.
44. Manimegalai. M, Karthikeyeni. S, Vasanth. S, Arul Ganesh. S, **T. Siva Vijayakumar**, Subramanian. P. 2010. Morphometric Analysis – A Tool to Identify the Different Variants in a Fish Species *E. maculatus*. International journal of Environmental sciences, Vol.1, no.4: 481-497.

#### **PATENTS:**



1. A Pharmaceutical Formulation Exhibiting Antimicrobial Activity Against Multidrug Resistance Bacteria Name of Inventor: GiridharanBupesh, **T. Siva Vijayakumar**, Chinnaiah Amutha, Chitralkha Saikumar, &P.Subramanian (2017)
2. An Anticancer Compound: Giridharan Bupesh, **T. Siva Vijayakumar**, Arul Amutha Elizabeth, B.Shanthi & P. Subramanian (2017)
3. Biosynthesis of Egg Albumin Doped Zinc Oxide Nanoparticles for Biomedical Application: Giridharan Bupesh, **T. Siva Vijayakumar**, Chinnaiah Amutha, P. Saikumar, & P.Subramanian (2017)
4. An Automobile Vehicle exhaust system emploting Algae Photobioreactor: S. Vasanth, **T. Siva Vijayakumar**, Jayasurya R, Revathi N & Muthuselvam M (2021)
5. Low Cholesterol Fish Feed Formulation: S. Vasanth, **T. Siva Vijayakumar**, Jayasurya R, Revathi N & Muthuselvam M (2021)

#### **Faculty Development Program:**

1. AICTE Training and Learning (ATAL) Academy, Five Days Online Elementary FDP on “**Achieving Leadership Excellence for Teachers of Higher Education Institutions**” from 27.09.2021 to 01.10.2021 at Sri Ramakrishna Mission Vidyala College of Education.
2. FDP on “**Research Proposal to Patenting – A Road Map**” jointly organized by IQAC and PG & Research Department of Biochemistry, held from 25<sup>th</sup> to 27<sup>th</sup> August 2021.
3. Two Weeks Online FDP on **Learning And Memory: Understandings From Educational Neuroscience** Central From Queensland University, Australia From Future Learn Issued 23rd September 2020.
4. Three Weeks Online FDP on **Bacterial Genomes: Disease Outbreaks And Antimicrobial Resistance** From Wellcome Genome Campus Advanced Courses And Scientific Conferences From Future Learn Issued 23<sup>rd</sup> September 2020.
5. One Week Online Interdisciplinary Certificate course on “**Bioinformatics**” Organized by PG Department of Zoology, Arulmigu Palaniandaar Arts College For Women, Palani from 25.7.2020 to 30.07.2020.
6. Faculty Development Programme on Biopython organized at Srimad Andavan Arts and Science College along with Spoken Tutorial Project , IIT Bombay, held from 18<sup>th</sup> July 2018 to 18<sup>th</sup> October 2018.

#### **Refresher courses attended:**

1. UGC – Sponsored Refresher Course in Biological Sciences (Interdisciplinary) (Biotechnology, Bioinformatics, Biochemistry, Ecology, Genetics, Molecular Biology) held at Bharathiar University, from 22<sup>nd</sup> November 2022 to 5<sup>th</sup> December 2022
2. University and PG College M.Sc. Teachers’ Training Program in Biology / Life Science from 7th June to 27th June 2018 held at Center of Excellence in Science and Mathematics Education, Indian Institute of Science, Kudapura, Karnataka– 577536.

3. “Science Academies Refresher course on **“Experimental approaches to molecular microbiology and cell biology”** to be held at School of Life Sciences, Manipal University, Manipal, from 20<sup>th</sup> November 2017 to 2<sup>nd</sup> December 2017.

#### **Winter School attended:**

1. XXXVI Winter School on “Advances in fish biology and genotoxicity” held at Madurai Kamaraj University, Madurai from March 15-28, 2017

#### **Trainings:**

1. Undergone “Inplant Training as Lab Technician” in Govt. of Pondicherry District Industries Center Sponsored during 05-October 2005 to 04-October 2006.
2. Undergone “Plant Tissue Culture Training” for one month at Flora Agro Biotech Research Centre, Coimbatore.
3. Attended Short term course on Electron Microscopy (EM-2008), during September 2008 at National Institute of Technology, Trichy.
4. Attended 10 days training on “Inland Aquaculture” during November, 2008 at the Krishi Vigyan Kender, Trichy.
5. Actively participated in short term training programme on “Immunological Techniques in Cancer Biology” during 8-16<sup>th</sup> October, 2009.

#### **International & National Conferences/ Seminar / Workshop Attended**

1. “**NPTEL E-Awareness workshop**” on 27<sup>th</sup> January 2023 held by Srimad Andavan Arts and Science College, Trichy.
2. National Virtual Seminar on “**New Era in Insilico Biology and DNA Polymorphism in Health and Diseases**” held at Department of Biochemistry School of Biological Science, St. Joseph’s College, Trichy on 13<sup>th</sup> March 2021.
3. Webinar on "Internal Quality Assurance Cell (IQAC) & Intellectual Property Rights Cell organize a Webinar on “**An Introduction to Patent and Career Opportunities in IPR**” on 9th July, 2020 organised by the Internal Quality Assurance Cell (IQAC) and Intellectual Property Rights Cell."
4. Anchrom Webinar on "**HPTLC: A Precision Tool for Evaluation of Herbal Formulations**" with V. V. Institute of Pharmaceutical Sciences, Gudlavalluru "Andhra Pradesh. July 16, 2020.

5. International Webinar on "**Recent Trends in Bioscience and Biotechnology**" [IWRTBB-2020] Arunai International Research Foundation, In association with Queen Mary's College (Chennai) July 2020.
6. National Webinar on "**Beekeeping for honey production and Commercialization**" during July 2020 at Agriculture Entomology, AC & RC, Killikulam and Member, Beekeeping Development Committee, Killikulam, Vallanadu, Tamil Nadu.
7. "**Best Paper Presentation Award**" at National Conference on "**Recent Trends in Microbiology- NCRTM-2020**" Paper titled **Bio Mechanism of Fabricated Hollow Mesoporous Silica Nanoparticles (HMSN) and Toxicological Consequence of Di-Butyl Phthalate (DBP) in fresh water fish Oreochromis niloticus**" organized by Department of Microbiology, Sri Sai Bharath College of Arts and Science, Dindigul held on 13<sup>th</sup> March 2020.
8. A National Seminar on recent trends in "**Aquaculture practices towards technological Empowerment of Aquaculture farmers (Live Aqua 2008)**" during August 2008 at Bharathiar University, Coimbatore.
9. National seminar on Environmental Biotechnology: "**Challenges and Opportunities (Environtech-2008)**" on 17-18<sup>th</sup> September, 2008 at S.N College, Nattika, Thrissur, Kerala.
10. Lecture workshop on "**Current Trends In Biology & Biotechnology**" during 19-20 September 2008, at Bharathidasan University Trichy-24.
11. **Presented a Poster** in the International conference on "**Bioethics**" on 24-26, September, 2008 at Mother Teresa Women's University, Kodaikanal.
12. One day National seminar on "**Recent Trends in Chemical Signaling**" on 2<sup>nd</sup> February, 2009 at Bharathidasan University, Trichy.
13. A one-day national workshop on "**Patent information**" on 29<sup>th</sup> April, 2009 at Bharathidasan University, Trichy.
14. Actively participated in the **Awareness workshop** on "The facilities of UGC-DAE consortium for scientific research" during September 16<sup>th</sup> - 17<sup>th</sup>, 2009 at School of Physics, Bharathidasan University, Trichy, Tamilnadu.

15. Actively participated in the “**International Conference on Climate Change and Bioresource (ICCCB-2010)**” during 9 -12<sup>th</sup> February, 2010 at the Department of Biotechnology, Bharathidasan University, Trichy, Tamilnadu.
16. **Presented a Poster** in the “**International conference on environmental pollution, water conservation and health**” held at the Department of zoology, Bangalore University, Bangalore during 29-31 July, 2010.
17. Attended 10 days **National workshop on “Techniques in Molecular and Cellular Endocrinology**” held at Department of Endocrinology, Dr.ALMPGIBMS, University of Madras, Taramani, Chennai during 4-13 January, 2010.
18. National Symposium on “**Current Perspectives in Animal Biotechnology**” on 3<sup>nd</sup> & 4<sup>th</sup> February, 2011 at Department of Animal Science, Bharathidasan University, Trichy-24.
19. Actively participated in the National workshop on “**Petroleum Exploration**” on 31<sup>st</sup> March to 1<sup>st</sup> April, 2011 at Bharathidasan University, Trichy-24.
20. ISRO Sponsored National Advanced Training Programme on “**Applications of Remote Sensing, GIS and GPS**” on 20-24 June 2011, held at Department of Geology, Bharathidasan University, Trichy-24
21. National Seminar on “**Challenges in Animal Biotechnology and Environmental Management Research**” on 23<sup>rd</sup> June, 2011 at Department of Animal Science, Bharathidasan University, Trichy-24.
22. International Symposium on “**Environmental Risk Assessment 2011**” held at the Unit of Toxicology, Department of Zoology, Bharathiar University, Coimbatore – 46.
23. UGC Sponsored Short Term Course/Workshop on “**Methods in Life Sciences Research Scholars**” held from 26 to 28 March 2012 at UGC-Academic Staff College. Bharathidasan University, Trichy-23.
24. One day workshop on “**Nanomaterials Charaterization**” 7<sup>th</sup> August 2013 at Sri Ramakrishna Engineering College Coimbatore- 22.
25. Workshop of “**Advances In Nanotechnology: Fabrication, Processing and Applications**” held from Feb 28<sup>th</sup>& 1<sup>st</sup> March at Centre for Nanoscience & Nanotechnology, School of Physics, Bharathidasan University, Trichy-24.

26. Science Academies sponsored “**Two day Lecture Workshop on Recent Advances in Materials Chemistry**” held from 7<sup>th</sup>& 8<sup>th</sup> March 2014, at Department of Chemistry, Bharathidasan Institute of Technology Anna university, Trichy-24.
27. National Conference on “**Innovations, Implementations and Controversies of Animal Biotechnology (NCIICAB-2014)**” held from 20<sup>th</sup>& 21<sup>st</sup> March 2014 at Department of Animal Science, Bharathidasan University, Trichy-24.
28. 24<sup>th</sup> Annual Conference of Indian Association for Angiosperm Taxonomy (IAAT) “**International Conference on trends in Plant systematic (TIPS)**”, held from 31<sup>st</sup> Oct to 2<sup>nd</sup> Nov 2014 at Department of Plant Science, Bharathidasan University, Trichy-24.
29. One day Continuous Medical Education (CME) Programme on “**Stem Cells & Tissue Engineering**” held on 13<sup>th</sup> Sep 2015 at IMA Hall Tiruchirappalli.
30. Two Days Training programme on “**Natural Organic farming**” on 27<sup>th</sup> to 28<sup>th</sup> Feb 2016 held at Vanagam, Nammalvar Ecological Foundation and Farm Research and Global Food Security Trust, Kadavur, Karur District-621 311.

**Extension Activities:**

1. Online Pre PRCN-Orientation Course for CTO`s organised by 12 TN NCC BN Salem, Coimbatore Group.
2. Organized Inter-Collegiate Meet (Vita Fest 2017 & 2018)
3. Online Social Awareness Program by NCC Cadets like VBlog, Slogan, poster Making etc