

Dr Veena is a graduate from Mysore University. She is a University topper and a Gold medalist during her MSc- Environmental Science, Post graduation studies. She conducted research (1994-99) leading to PhD at **Central Food Technological Research Institute (CSIR-CFTRI)**, Mysore. Her PhD research focused on the “Production of Fenthion (a pesticide) specific biosurfactant”. Later for a brief period (2000) she was a Research Associate in Biochemistry Department at **Indian Institute of Science (IISc)** Bangalore, addressing the Isolation of an enzyme - lysophosphotydile acylcholine transferase by photo-radio labelling technique. Further, she submitted a project proposal on Cancer Biology entitled “Molecular mechanism of action of Antiangiogenic drug 2-methoxyestradiol” to DBT under DBT-Postdoc scheme and was selected for the award. She opted to carry out this work at **Indian Institute of Technology Bombay (IIT-b)** (2001-2003). Dr. Veena was awarded (2011) the prestigious Summer Research Fellowship for Teachers by **Indian Academy of Science**. She took up this fellowship at **TIFR-NCBS**, Bangalore and focused her work on Computation Biology.

As a compassionate person, Dr. Adi is a fond and favorite teacher in the student community. Institute has awarded her several times as the “Best teacher” for giving 100% results in most of the courses she has taught. Dr. Veena Kumara Adi has published around 28 research papers in peer reviewed/ Scopus indexed journal. Her resarc work is presented more that 30 national and international conferences. As on May 2023, her Google Scholar citation is around **470**, with a decent H & I index. She has delivered several invited technical talks. AS an honorary member she serves on the editorial board of several international journals including Springer and Elsevier.

Dr. Adi, has been actively involved with BIET’s Students’ Academic Council as Joint convener and Convener since 2012. During this regime, the flagship of BIET Davana, (techno-cultural college fest), was brought to greater heights. Apart from academics, Dr. Adi is trained in Carnatic classical music and is an accomplished instrumental Veena Artist. She has given several stage performance. She is a vivid gardener and nurtures more than hundreds of foliage which includes vines, medicinal plants, flowering and fruiting plants in her residence.

Dr. Veena Kumara Adi is presently serving in the Dept of Biotechnology. A compassionate teacher, Dr Veena enjoys the joy of teaching!! Dr.Veena is passionate in **making a difference in the student community** sharing knowledge through compassion and commitment. She believes that each student is unique, potentially divine in the class room and is a special bundle of talent.

## Academic Profile of Dr. (Mrs). Veena Kumara Adi

<https://scholar.google.co.in/citations?user=ZbSZm6cAAAAJ&hl=en>

<https://bietdvg.irins.org/profile/220782>

[https://www.researchgate.net/profile/Veena\\_Adi](https://www.researchgate.net/profile/Veena_Adi)

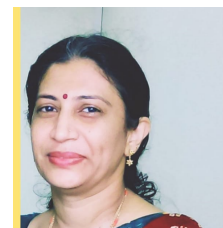
MSc -Environmental Science- Gold Medalist

PhD- Biosciences, CFTRI, Mysore

PostDoc – Biochemistry, IISc Bangalore

PostDoc – Cancer Biology, IIT-bombay

IAS- Bioinformatics, Summer Training at NCBS-TIFR, Bangalore.



### 1. Professional track.

#### Teaching.

- **Associate Professor:** (Jan 2021 – till date) Dept of Biotechnology, Bapuji Institute of Engg and Technology (BIET) Davangere, Karnataka. [www.biet.dvg.edu](http://www.biet.dvg.edu)
- **Associate Professor:** (Dec 2014- Dec 2000), PG Dept of Environmental Sciences, Civil Engineering Dept, BIET, Davangere, Karnataka.
- **Assistant Professor:** (Aug 2012 – Nov 2014) Civil engineering Dept, BIET, Davangere, Karnataka.
- **Assistant Professor:** (Nov 2006 – August 2012) Dept of Biotechnology, BIET, Davangere, Karnataka.
- **Visiting Professor:** (August 2004 - Nov 2006), Padmashree Dr. D Y Patil Institute of Biotechnology and Bioinformatics, CBD Belapur, Navi Mumbai.
- **Senior Lecturer:** (August 2003 - August 2004) Padmashree Dr D Y Patil Institute of Biotechnology and Bioinformatics, Nerul, Navi Mumbai.
- **Guest Lecturer:** (Dec 1993-July 1994) for post graduates (M.Sc) of Department of Environmental Science & Department of Life Sciences, **Kuvempu University**, Karnataka

#### Research:

- **IAS-Summer trainee** (May 2011- July 2011), with **Dr. Sowdhamini**, NCBS-TIFR, Bangalore. [http://web.japps.ias.ac.in:8080/srpf2011/SelectedList.jsp?col=First\\_Name&sub=Lif&searchtxt=veena](http://web.japps.ias.ac.in:8080/srpf2011/SelectedList.jsp?col=First_Name&sub=Lif&searchtxt=veena)
- **DBT- Post Doctoral Fellow:** (May 2001- July 2003), with **Prof. Dulal Panda**, Molecular cell biology lab, Center for biotechnology, **IIT Bombay, Mumbai**. Project work “Molecular mechanism of action of Antiangiogenic drug 2-methoxyestradiol” <http://www.bio.iitb.ac.in>
- **CSIR-Research Associate:** (June 1999 – September 2000) with **Dr. Ram Rajasekharan**, Dept of Biochemistry, **IISc, Bangalore**. Project worked on 'Isolation of lysophosphotidyle acylcholine transferase by photo-radio labeling technique'. <http://biochem.iisc.ernet.in/>
- **CSIR-Senior Research fellow:** (Jan 1996 - May1999) with **Dr. NGK Karanth**, Dept of Pesticide infestation and Control, **CFTRI, Mysore**. Project worked on 'Fermentation studies on the production of pesticide specific biosurfactant for residue contamination in food'. <http://www.cftri.com/>
- **DBT- Junior Research Fellow:** (June 1994- Jan 1996) with **Dr. NGK Karanth**, Dept of Pesticide infestation and Control, **CFTRI, Mysore**. Project worked on 'Microbial Biosurfactants'. <http://www.cftri.com/>

2.	<b>Awards and honors:</b>
	<ul style="list-style-type: none"> <li>• <b>Indian Academy of Science awarded Summer Research Fellowship (2011)</b> programme for teachers with <b>Dr. Sowdhamini</b> at TIFR- NCBS, Bangalore</li> <li>• <b>DBT-Post Doctoral Fellowship</b> awarded by Govt of India 2001.</li> <li>• <b>CSIR-Senior Research Fellowship (SRF)</b> Awarded by Govt. of India</li> <li>• <b>DBT- Junior Research Fellowship</b> award from National environmental Engineering research Institute NEERI (premier CSIR lab), Nagpur, but declined to join.</li> <li>• <b>GATE</b> (Graduate Aptitude Test in Engineering ) conducted by IIT, Bombay - qualified</li> <li>• <b>First Rank</b> in M.Sc (Environmental Sciences) Degree, Kuvempu University, Karnataka,</li> <li>• University <b>Gold Medal</b> from Kuvempu University.</li> <li>• <b>Merit Scholarship</b> for consecutive 2 years by Kuvempu University, Govt. of Karnataka.</li> <li>• <b>DG- CSIR Dr. RA Mashelkar appreciation certificate</b> for an outstanding, imaginative showcase on <b>Biosurfactant</b> during the CFTRI showcase 1997.</li> </ul>
3.	<b>Distinction and recognition:</b>
	<ul style="list-style-type: none"> <li>• <b>Design your destiny (2018) competition:</b> Mentored a project on Bio-concrete which was shortlisted upto Zonal level (pre-final level) and own cash prize at state level competition co-organized by Skill India, National Skill Development corporation, CADD Centre etc.</li> <li>• <b>Cardiopam</b> - that senses the heart: Mentored a <b>3D design model project</b> which was short-listed for The Autodesk Inventor Student Design Competition (2011) co-organized by <b>Indian Institute of Technology</b> Madras in association with Autodesk, academic &amp; industry partners from mechanical engineering &amp; related disciplines to digitally design assistive and rehabilitation devices for people with any form of impairment.</li> <li>• <b>Convener (2002-2004)</b> during the inception of the UG and PG course), Board of studies for - Design of curriculum and framing of syllabi and evaluation methods for B.Tech and M.Tech Biotechnology and Bioinformatics, DY Patil Deemed university, Navi Mumbai.</li> <li>• <b>Convener/Joint convener (2014-2021) Davana</b>, the mega 3 day college fest of BIET.</li> </ul>
4.	<b>Academic credentials:</b>
	<ol style="list-style-type: none"> <li>1. <b>Member, Editorial Board “Research Journal of BioTechnology”</b> Indore, INDIA.</li> <li>2. <b>Referee, for several national and international high indexed journal, including Elsevier, Springer to name a few</b> “Journal of Biotechnology” Elsevier, USA; “Journal of Environmental Management” Elsevier, USA; “Journal of Microbiology” Springer 233, USA</li> <li>3. <b>Consultant Biotechnologies</b>, Alaknanda Ghaati Shilpi Federation India <a href="http://aagaas.org">http://aagaas.org</a></li> <li>4. <b>Association of Microbiologist India, Life Member</b></li> <li>5. <b>Society of Biological Chemist, Life Member</b></li> <li>6. <b>ISTE Life Member</b></li> </ol>

**5. Academic - pedagogical exposure**

**Presently offering BE Biotechnology course on**

Molecular Biology (4<sup>th</sup> Sem), Regulatory affairs in Biotech industry (8<sup>th</sup> Sem)

**PhD:** Reviewed and evaluated thesis of Mysore university and CSIR-CFTRI.

**Courses offered to PG Students M Tech Environmental Engg (2012 -2021)**

**M Tech Biotechnology and Bioinformatics (2003-2006)**

Concepts of Biotech	Advanced Molecular biology	Fermentation technology
Protein Purification	Advanced Microbiology	Environ. Impact Assessment
Biological techniques	Advanced Genetics	Air pollution & control
Applied chemistry	Applied Microbiology	Non Point Source pollution

**Course taught to UG Students BE Civil Engineering (2012 to 2021)**

**BE –Biotechnology (2003-2012, 2021-2023)**

Biomolecules	Agricultural Biotechnology	Regulatory affairs in Biotechnology
Biochemistry	Down stream tech	Industry.
Enzyme technology	Genetic Engg & application	Biokinetics & enzyme tech lab
Upstream process tech	Cell biology and Genetics	Environmental Engineering Lab
Molecular biology	Lab to industrial scaling	Genetic engg lab
Microbiology	Microbial BT	Biochemistry lab
Environmental BT	Solid waste management	Cell & molecular biology lab

**Examiner ship of university / academic bodies:** As paper setter and evaluator (both theory and practical exams) for UG, PG and Ph.D course of the following universities.

- Padmashree Dr DY Patil Vidyapeeth Deemed University**, Mumbai. Maharashtra, India.
- BVB, Hubli**,
- MSRIT, Bangalore**
- Visvesvaraya Technical University (VTU)**, Belgaum, Karnataka, India
- Mysore University**, Mysore, Karnataka, India

**Area of expertise:**

Extensive experience in design of experiments related to fermentation media optimization and process improvement - scale-up experiments with regard to time management, strategic planning, decision making, standardizing, performing and troubleshooting - different techniques for the detection and remediation of environmental contaminants. Expertise in microbial production of metabolites with analytical techniques necessary for monitoring fermentation performance, down stream protein purification, protein analysis.

- **Protein chemistry:** purification and, characterization.
- **Molecular biology :** DNA/plasmid extraction, analysis, cloning, PCR.
- **Microbiology:** Aseptic techniques, isolation & characterization of bacterial strains, enrichment studies.
- **Fermentation technology :** SSF, Smf, shake flasks; handling and trouble shooting of lab & pilot plant fermenters (stirred tank), packed column Bioreactors (– SSF)
- **Environmental biotechnology:** Biodegradation; bioremediation of xenobiotics.
- **Bioinformatics:** Homology modeling and drug docking.

6.	<p><b>Selected Recent Workshops attended</b></p> <ul style="list-style-type: none"> <li>• Two day workshop on Implementation of NEP organized by BIET in association with VTU between 10<sup>th</sup> Dec -12<sup>th</sup> Dec 2021.</li> <li>• Five day workshop on “Genome Engg and Technology sponsored by AICTE Training and Learning (ATAL) Academy, AICTE organized by MCA Dept and Dept of E and IE, UBDTCE, Davangere during 28<sup>th</sup> September to 2<sup>nd</sup> October 2020</li> <li>• One day Webinar on “Immunity enhancing Medicinal Plants to combat Covid-19 pandemic with special reference to Siddha System” conducted by Mount Carmel Autonomous college on June 4<sup>th</sup> 2020.</li> <li>• Five day CE &amp; QIP short term course on “Laboratory and Ergonomic Safety for Engineers” between 10<sup>th</sup> -14<sup>th</sup> June 2019 at <b>IIT Bombay</b>.</li> <li>• Three day FDP program on “Recent Trends in Environmental Impact Assessment- Process and Procedures (RTEIA-PP)” organized by BIET and KSPCB, Institution of Engineers, Davanagere between 17<sup>th</sup> Jan to 19<sup>th</sup> Jan 2019.</li> <li>• One day workshop on “Human Body as a complex system” on 12<sup>th</sup> August 2014 at <b>IISc Bangalore</b></li> <li>• One day workshop on “Safeguarding of Intellectual Property Rights” in Oct 2012 at <b>NAL, Bangalore</b>.</li> </ul>
7.	<p><b>Selected Invited talk in workshop/symposium/conference /resource person</b></p>
	<ol style="list-style-type: none"> <li>1. On “<b>My dinner plate!! Food fraud???</b>” during the occasion of 'World Food Day' program celebrated at Danavir Sirasangi Sri Lingaraj Desai College of Hortl. Engg. &amp; Food Technology (DSLDC-CHEFT), Devihosur-Haveri-581 110 on 22nd Oct. 2022</li> <li>2. On “<b>Transposons - the jumping genes</b>” during the one day special lecture organized by Department of Zoology on the occasion of 200<sup>th</sup> Birth Anniversary of GJ Mendel, at Government First Grade College, Davangere on 20<sup>th</sup> August 2022.</li> <li>3. On “<b>Role of Bioinformatics in Cancer Treatment</b>” under AICTE Training and Learning (ATAL) Academy, AICTE sponsored five day workshop on “ Bioinformatics for Engg and Medicos” organized by MCA Dept and Dept of E and IE, UBDTCE, Davangere during 28<sup>th</sup> September to 2<sup>nd</sup> October 2020.</li> <li>4. Invited by Dept of Biotechnology, MSRIT as subject expert to suggest/observe/comment and review its BE Biotechnology curriculum – March 2016.</li> <li>5. As resource person to frame On “<b>Best Management Practices to handle water pollution</b>”, at Hamara Jal Hamara jeeva, a nationwide programme, organized by Dept of irrigation, at DC office Davangere on February 7<sup>th</sup> 2015.</li> <li>6. On “<b>Bioinformatics aiding Health Care</b>” at a Faculty Development programme (FDA 2014) organized by Electronics and Instrumentation Department, University BDT college of Engineering, Davangere during 23<sup>rd</sup> -26<sup>th</sup> July 2014.</li> <li>7. “Inspiration -2013, an inter college youth fest, organized by Davan institute of Advanced management studies, as jury member for cultural event.</li> <li>8. On “<b>Homology Modelling of beta tubulin</b>”: At a National Seminar on “Intelligent computing in Biological Sciences (ICIBS 2012)” organized by Padmashree Dr. D Y Patil University, Navi Mumbai. 19<sup>th</sup> - 20<sup>th</sup> March 2012.</li> <li>9. On “<b>Nurseinformatics</b>” at by Bapuji Institute of Nursing, Dvg on 2<sup>nd</sup> May 2012.</li> <li>10. On <b>Molecular biology and Genetic Engineering</b>: A series of lectures at KLE Engineering College (M Tech Bioinformatics) during Dec 2011.</li> <li>11. On <b>Modelling Biomolecules</b>”: At 6<sup>th</sup> International conference on Hands-on science (HSCI 2009) Science for all (Hsci2009.org.in): Quest for excellence” held at Science city, Ahmedabad, (Gujarat) India.</li> <li>12. On “<b>Tubulin and their inhibitor</b>”: At a National conference on Diabetes and Cancer, at Annamalai University during Dec 2009. Tamilnadu, India.</li> </ol>

8.	<p><b>R &amp; D project -</b></p> <p>One of my project proposal for considered for funding around <b>15 Lakh</b> under AICET -RPS Scheme for the year 2012-13 (F.No.20/AICTE/RIFD/RPS(Policy-1)67/2012-13. However, since my host Biotechnology department did not offer any PG program the grants were not released.</p> <p>In 2013, I submitted a proposal under Research Grant Opportunity UGC-Major Research Project. This was recommended for an award of <b>15.85 Lakhs</b> However, then, Dec 2015 my host institution Bapuji Institute of Engg and Technology was not covered under 2(f) and 12(b) of UGC Act, the UGC cancelled the award.</p> <p>Further, I submitted a proposal to BRNS, the project was shortlisted for a presentation at BARC, Mumbai, in 2015. However, my efforts it did not make way for grants.</p> <p>Offlate, I had submitted a project proposal under Environmental Research Programme (EnvRP) of the R&amp;D Scheme MOEF 2015-16. This, <b>Rs.37 Lakh</b> project proposal was considered initially. But missed the funding. The ministry replied quoting environmental contamination issues</p> <p>Recently, in 2022, I submitted a <b>Rs. 30 Lakh</b> Research project to VGST, and was called for presentation, The committee suggestion the need of specific pesticide in the study, and so did not recommend for funding.</p> <p>As a passionate research, I am sincerely attempting to raise funds from funding agencies and eagerly looking forward for a funding!!.</p>
9.	<p><b>Selected Research Publication:</b></p> <p><b>A. Peer reviewed international journals:</b></p>
	<ol style="list-style-type: none"> <li>1. Jayalatha, Ashish P and <b>Veena Kumara Adi*</b> (2023). Assessing the Potential of Biosurfactant Production by <i>Bacillus subtilis</i> MTCC 2423 to Remediate the Zinc Contaminated Soil: A Process Optimization Approach. Accepted for publication in <i>Arabian Journal for Science and Engineering</i> (Scopus indexed).</li> <li>2. <b>Veena Kumara Adi*</b> (2023). Development of sustainable microbial coalesce bio-cement mortar blended with powdered seashells. <i>The Indian Concrete Journal</i>. (Scopus Indexed), ISSN : 00194565 Jan, Vol 97, No. 1. pp 21-30. <a href="https://www.icjonline.com/editionabstract_detail/012023">https://www.icjonline.com/editionabstract_detail/012023</a></li> <li>3. <b>Veena Kumara Adi*</b> and Swarnagouri Naganathanhalli (2022). Insights into HOX Genes and its effects on Sarcoma. <i>Journal of Emerging Technologies and Innovative Research (JETIR)</i> August, Volume 9, Issue 8 (ISSN-2349-5162). Pp d300-326. <a href="http://doi.one/10.1729/Journal.31314">http://doi.one/10.1729/Journal.31314</a></li> <li>4. K. Suchitra and <b>Veena Kumara Adi*</b>(2021) Reclamation of Abandoned Mine Soil Using Biosurfactant. <i>International Journal for Research in Applied Science and Engineering Technology (IJRASET)</i>, ISSN: 2321-9653 Sep, Vol 9, pp 23-28 <a href="https://doi.org/10.22214/ijraset.2021.373">https://doi.org/10.22214/ijraset.2021.373</a></li> <li>5. K. Suchitra, Shwetha. S and <b>Veena Kumara Adi*</b> (2021)Reclamation of Abandoned Mine Soil: A Review on Properties and Remediation Techniques. <i>International Journal for Research in Applied Science and Engineering Technology (IJRASET)</i>, ISSN: 2321-9653, Sep Vol 9, pp 9-21 <a href="https://doi.org/10.22214/ijraset.2021.37394">https://doi.org/10.22214/ijraset.2021.37394</a></li> <li>6. Shwetha and <b>Veena Kumara Adi*</b> (2021) Utilization of Abandoned Mine Soil in Making Bricks to Be Used for Construction Activity. <i>International Journal for Research in Applied Science and Engineering Technology (IJRASET)</i>, ISSN: 2321-9653, Vol 9, Issue IX, Sep, pp 1-8, ISSN : 2321-9653, Vol 9, pp 1-8 <a href="https://doi.org/10.22214/ijraset.2021.37393">https://doi.org/10.22214/ijraset.2021.37393</a></li> <li>7. Shashikumar P M and <b>Veena-Kumara-Adi*</b> (2019). Adsorption and Statistical Analysis of Textile Effluent Contaminated With Congo Red On Orange Peel. <i>International journal of innovative technology and exploring engineering (IJITEE)</i> ISSN:2278-3075, Vol-8, Issue 10, August, pp. 2607-2617. <a href="https://www.ijitee.org/wp-content/uploads/papers/v8i10/J93440881019.pdf">https://www.ijitee.org/wp-content/uploads/papers/v8i10/J93440881019.pdf</a></li> <li>8. Nayana KS and <b>Veena Kumara Adi*</b> (2019). Clarification of water using <i>Moringa oleifera</i> as a coagulant. <i>International Research Journal of Engineering and Technology (IRJET)</i>, Vol</li> </ol>

9. **Veena-Kumara-Adi\*** and B.K. Savitri (2019). Utilization of spent wash for optimum production of biosurfactant using response surface methodology, *J. Mater. Environ. Sci.*, ISSN: 2028-2508, Vol 10, issue 4, May, pp 298-304.  
[http://www.jmaterenvironsci.com/Document/vol10/vol10\\_N4/31-JMES-Adi-2019.pdf](http://www.jmaterenvironsci.com/Document/vol10/vol10_N4/31-JMES-Adi-2019.pdf)
10. **Veena Kumara Adi\***, B Keerti and Ashish Prabhu (2018) Sorption of copper on rice husk and coconut husk: a statistical optimization approach. *International Journal of Recent Scientific Research Research* 9(5), pp. 26688-26692. ISSN: 0976-3031  
DOI: <http://dx.doi.org/10.24327/ijrsr.2018.0905.2104>
11. **Veena Kumara Adi\*** and Suhasini S (2018). "Evaluation and performance of sand packed column deploying bentonite clay for rapid adsorption of rhodamine b from aqueous solution", *Int J of Latest Trends in Engg and Tech*, Vol 10 Issue 3 - May, ISSN: 2319-3778, pp. 215-220. <https://www.ijltet.org/journal/152820362437.%202517.pdf>
12. Jayalatha N. A and **Veena Kumara Adi\*** (2017). Seasonal variations in physico Chemical Characteristics of water quality of gurupura River in mangalore, south coast of india) *International Journal of Applied Science & Technology Research Excellence* Vol. 7 Issue 3, May-June 2017,ISSN NO.2250-2718(Print), 2250-2726(Online), (impact Factor 2.47) pp. 11-19 <http://ijastre.org/images/stories/vol7is3/3.pdf>
13. Jayalatha N. A and **Veena Kumara Adi\*** (2017). "Restoration of Physico-Chemical Properties of Zinc Contaminated Soil by Bacterial Biosurfactant" in *International Journal of Current Trends in Science and Technology*, ISSN 0976-9730 Vol. 7, no. 10, pp. 20329-20335. <https://doi.org/10.15520/ctst.v7i10.59>.
14. Shukla C and **Veena Kumara Adi\*** (2017). "Modeling Of Lead Adsorption on Low Cost Adsorbents By Response Surface Methodology" in *International journal of advanced scientific and technical research*, Vol 5, Issue 7, pp. 35-48. ISSN 2249-9954, <https://doi.org/10.26808/rs.st.i7v5.03>
15. **Veena Kumara Adi\***, Veena D.V and Jayalatha N. A (2016). "Physico-Chemical Analysis Of Packaged Mineral Water Bottles Floating In And Around Central Karnataka" in *Journal of Applicable Chemistry*. ISSN: 2278-1862, Volume 5, Issue 5, pp.1191-1198.  
<http://www.joac.info/ContentPaper/2016/4-20.pdf>
16. **Veena Kumara Adi\***, Meghana CV and Veena DV (2016). Bacteriological Quality Assessment of Street Vended Panipuri and Fruit Juices : A Case Study of Davangere City. *Research & Reviews: Journal of Food Science & Technology* ISSN: 2278-2249(online), ISSN: 2321-6468(print) Vol 5, Issue 2, pp.18-25.
17. Naveen Kumar MS, Nikhil B, Nikhil Patel AR, Nagaraja R and **Veena Kumara Adi\*** (2016) "Experimental studies on clay tile powder as partial replacement of cement for sustainable concrete". in *International Journal of Engineering Trends and Technology*, ISSN: 2349-0918. Volume 36 No 1- (June) pp 50-53  
<http://www.ijettjournal.org/2016/volume-36/number-1/IJETT-V36P210.pdf>
18. Veena D V, Jayalatha and **Veena Kumara Adi\*** (2016) "Water quality index of Bangalore's Battrahalli Lake" in *World Journal of Pharmacy and Pharmaceutical Sciences* ISSN 2278-4357. Vol 5, (2), pp 491-506.
19. K G Adi, PV Rao, **Veena Kumara Adi\*** (2015) "Analysis and detection of cholesterol by wavelets based and ANN classification" in *Procedia Materials Science*, ISSN: 2211-8128, Elsevier publications Vol 10, pp 409-418. <https://doi.org/10.1016/j.mspro.2015.06.074>
20. Mamatha Thakur and **Veena Kumar Adi\*** (2015) "Ground water studies in and around shantisagar Lake Channagiri Taluka region, Karnataka, India" in *Pollution Research* ISSN: 0257-8050.Vol 34 (3); pp 527-534.
21. M.C.Shainy and **Veena Kumara Adi\*** (2014) "Isolation of Endosulphan Metabolising bacteria from cashew plantations of Kannur district (Kerala)" in *International Review of Applied Biotechnology and Biochemistry*, ISSN: 2248-9886 Vol 2, No 1, pp 59-64.
22. **Veena Kumara Adi** and Karnath NGK (2014) "Optimization of process conditions for

	<p>pesticide specific bioemulsifier production in laboratory fermentor” in <i>World journal of environmental pollution</i>, ISSN: 2222-1360 Vol. 4, No 1, pp 01-06.</p> <p>23. Ronak Malpani, Sachith Kumar Jegarkal, Rashmi Shepur, Ravi Kiran H. N, <b>Veena Kumara Adi*</b> (2014) “Effect of Marble Sludge Powder &amp; Quarry Rock Dust as Partial Replacement for Fine Aggregates on Properties of Concrete” in <i>International Journal of Innovative Technology &amp; Exploring Engineering</i>, ISSN: 2278-3075, Vol 4(1), June. pp 39-42.</p> <p>24. Sushma Havanur and <b>Veena Kumara Adi*</b>. (2014) “Spice based treatment to increase the shelf life of Paneer – Clove a promising spice” in <i>The Journal of Microbiology, Biotechnology and Food Sciences</i>. ISSN: 1338-5178. Vol 3, no.6. pp 463-466.</p> <p>25. Chellasamy Selvaakumar, Kirolikar Pravin Saurabh, Borgaonkar Swaranshu Pramod, and <b>Adi Kumara Veena*</b> (2010) “Mutational analysis of MLH1 protein in Hereditary Nonpolyposis Colorectal Cancer- 2” in <i>Research Journal of Biotechnology</i>. ISSN: 0973-6263 Vol 5 (4), Nov, pp. 26-29</p> <p>26. <b>Veena Kumara Adi NK*</b> and Karanth NGK (2008) "Scanning Electron Microscope studies on wheat bran fortified with Fenthion, An OP Pesticide". <i>Asian Journal of Microbiology Biotechnology and Environmental Science</i>. ISSN: 0972-3005, Vol 10, no 3, pp.505-508.</p> <p>27. <b>Veenanadig NK*</b>, Gowthaman MK and Karanth NGK (2000) "Scale up studies for the production of biosurfactant in packed column bioreactor". <i>Bioprocess Engineering</i>, Elsevier publication, ISSN:1369-703X Vol. 22, No 2 / Feb, pp. 95-99</p> <p>28. Karanth, NGK and Deo, PG and <b>Veenanadig, NK*</b> (1999) Microbial production of biosurfactants and their importance. <i>Current Science</i> ISSN: 0011-3891 Vol. 77 No 1, July. pp. 116-126.</p> <p><b>Veenanadig NK*</b> and Karanth NGK "Simultaneous utilization of Fenthion &amp; Glucose by <i>Bacillus subtilis</i> FE-2 strain" (accepted in J Env'tal &amp; Pesticide Research).</p> <p><b>Veena Kumara Adi N K*</b> and Karanth NGK “Solid State Fermentation on the production of pesticide specific bacterial surfactant" (review with Indian Journal of Microbiology).</p> <p><b>*Corresponding author</b></p>
	<p><b>B. In Peer reviewed Edited Book</b></p>
	<p>29. <b>Veena Kumara Adi</b> (2009) “Elucidating and Teaching the structure of DNA to biology students” Proceedings of the Proceedings of the 6th International Conference on Hands-on Science. Science for All. Quest for Excellence October 2009 Publisher: Science City Editor: M.F. Costa, B.V. Dorrio and M.K. Patairiya ISBN: 978-989-95095-5-9</p> <p>30. <b>Veena Kumara Adi</b> (2009) “Cancer Perspective: Microtubulin and its inhibitors”. In Diabetes Mellitus and Cancer, Excel India publishers. <b>ISBN:978-93-80043-56-2.</b></p> <p>31. <b>Veena Nadig NK</b> (1998) "A Case study of an irrigational project- Impact of Upper Tunga Project" in Environmental Impact Assessment &amp; Management Edited- Hosetti and Kumar, Daya Publishers, New Delhi <b>ISBN 10: 8170351820 / ISBN 13: 9788170351825.</b></p>
	<p><b>C. Abstracts in referred International proceedings:</b></p>
	<p>32. “A Freundlich isotherm model for adsorption of methylene blue from synthetic textile wastewater onto activated carbon of <i>parthenium hysterophorus</i>” abstract has been accepted in the 4th International Conference on Waste Management, RECYCLE – 2023, to be held at IIT Guwahati.</p> <p>33. Shukla and <b>Veena Kumara Adi</b> (14-16 September 2017), “Modeling of Lead adsorption from aqueous solutions by coir pith and peanut shell using response surface methodology” ICETCS 2017, held at Manipal Institute of Technology, Manipal University -576104.</p> <p>34. Keerthi and <b>Veena Kumara Adi</b> (14-16 September 2017), Application of Response surface methodology (Box-Behnken Design) for copper adsorption by agro waste” at ICETCS 2017, held at Manipal Institute of Technology, Manipal University -576104.</p> <p>35. Meghana CV and <b>Veena Kumara Adi</b> (21<sup>st</sup> - 24<sup>th</sup> Nov 2016). “Bacteriological quality assessment of street vended Panipuri - A case study of Davangere city” at SBC meet held at</p>



CFTRI Mysore.

36. Veena D V., Jayalatha NA and **Veena Kumara Adi\*** (20<sup>th</sup> - 22<sup>nd</sup> Dec 2015) “Water quality index of Bangalore’s Bhatrahalli Lake” in ICACE 2015 at NITK Surathkal, Mangalore.
37. K G Adi, PV Rao, **Veena Kumara Adi** (17-18 Oct 2014) “Analysis and detection of cholesterol by wavelets based and ANN classification” at an International Conference on Nanomaterials and Nanotechnology, (CNT 2014) organized by Vardhaman College of Engineering, Shamshabad, Hyderabad, India
38. Shainy MC and **Veena Kumara Adi\*** (4 - 5 September 2014) “ Isolation of endosulphan metabolizing bacteria from cashew plantations of Kannur district (Kerala)” at an International Conference on Recent Advances in Engineering Sciences 2014 (ICRAES 2014)held at M.S. Ramaiah Institute of Technology, Bangalore
39. **Veena Kumara Adi** (Oct, 2009) “Elucidating and Teaching molecular biology to science graduates” at an 6<sup>th</sup> International conference on Hands-on science (HSCI 2009) Science for all: Quest for excellence” held at Science city, Ahmedabad, (Gujarat) India.
40. K Saurabh P, Swaranshu B, Selvaa K C, **Veena Kumara Adi\*** (19-20 December 2008), Genomic and proteomic analysis of the MLH1 gene: Hereditary nonpolyposis colorectal cancer-2 at an International symposium on Novel strategies for targeted prevention and treatment of Cancer JNU, New Delhi, India
41. **Veena Kumara Adi** and Karanth NGK (15-19th Dec, 2008) “Sequential disintegration of wheat bran fortified with Fenthion by Bacillus subtilis” at 6<sup>th</sup> International food convention- Newer challenges in food science & tech Industrial Perspective - IFCON 2008, CFTRI, Mysore.
42. Aishwarya S, G Bharath Deepa, Spurthi HG, **Veena Kumara Adi\*** (Nov 6-8, 2008) “Bioprocess development for Biosurfactant production. At 3<sup>rd</sup> International Congress on Bioprocesses in Food Industries (ICBF) & 5th Convention of Biotech Research Society of India(BRSI) at Osmania University, Hyderabad, INDIA.
43. **Veena Kumara Adi\*** (October 2008) “Pesticide Specific Biosurfactant from Wheat Bran”, at the Industrial Applications of Renewable Resources: A Conference on Biobased Technologies held October 13–16, 2008, in Cincinnati, Ohio, USA .
44. **Veena Kumara Adi\*** (September 2008) “Biosurfactants production in Smf and SSF” at SIS 2008, 17<sup>th</sup> international symposium on surfactants in solution, at Max-Planck Institute of colloids and interfaces- Am Muhlenbeg 1, 14476 Golm, Germany.
45. **Veena Kumara Adi\*** (Nov 2007) “Biosurfactant – a pesticide container cleaning agent” at – 4<sup>th</sup> international conference on environmental education (ICEE) at Ahmedabad, India
46. **Veena Kumara Adi\*** (Nov 2007) “Scale up studies (Smf) on the production of pesticide specific biosurfactant” selected for presentation at – II international conference in environmental industrial and applied microbiology “Biomicroworld 2007” - Seville- Spain.
47. **Veena Kumara Adi\*** & Karanth NGK (September 2007) “ Biosurfactant- a novel tool for pesticide abatement” selected for presentation at 14<sup>th</sup> International symposium on Health-related water Microbiology “Watermicro 2007” at Tokyo, Japan.
48. **Veenanadig NK.**, Akmal Pasha and Karanth NGK\* (Nov 1998) "Analysis of Carbofuran insecticide by derivatization using O,O-diethyl Chlorothiophosphate" at 4th international food convention (IFCon-98) held at CFTRI, Mysore, in 23-27, 1998 November..

#### **D. Abstracts in referred National proceedings:**

49. Jayalatha N. A and **Veena Kumara Adi** (28 - 30<sup>th</sup> December 2016) “Seasonal variations in physico-chemical characteristics of water quality of Gurupura river in Mangalore, south coast of india” at Lake 2016:Conference on Conservation and Sustainable Management of Ecologically Sensitive Regions in Western Ghats the 10<sup>th</sup> Biennial lake conference Organised by IISc., <http://ces.iisc.ernet.in/energy>
50. Sandhya V and **Veena Kumara Adi** (15<sup>th</sup> 16 Oct 2015)” Biosurfactant enhanced bioremediation of soil artificially contaminated with spent engine oil” at UGC sponsored National conference on Recent trends in waste management” held at KLE Haveri. **Bagged the**

	<p><u>best presentation award.</u></p> <p>51. Aishwarya and <b>Veena Kumara Adi*</b> (Oct 2009) “Coriander : Reasonably a rich source of catalase” at 78<sup>th</sup> Annual conference of, society of biological chemists (India) –Society of Biological chemist (India) held at NCBS, Pune - 411007 Maharashtra.</p> <p>52. <b>Veena Kumara Adi</b> (2009) “Microtubulin and its inhibitors” in conference on Diabetes – cancer (Dia-Can 2009) held at Annamalai University, Chidambaram.</p> <p>53. Karanth NGK and <b>Veena Kumara Adi*</b> (Dec 2007) “Wheat bran as an excellent substrate for biosurfactant production” in Annual conference of Association of Microbiologists of India (AMI) at IIT Madras, Chennai, India.</p> <p>54. <b>Veena Kumara Adi*</b> and Karanth NGK (Nov 2007) “Scanning electron microscope (SEM) studies of biosurfactant producing bacillus strain” presented at 76<sup>th</sup> Annual meeting of the society of biological chemists –SBC held at Sri Venkateshwara University Tirupati.</p> <p>55. <b>Veenanadig NK*</b> Gowthaman MK &amp; Karanth NGK (Nov 1998) "Production of Fenthion dispersing biosurfactant in solid state fermentation using Packed column bioreactor" held at National Conference on "Role of Microbes for Bioremediation" organised by Punjab University, Chandigarh, India.</p> <p>56. <b>Veenanadig NK &amp; Karanth NGK*</b> (Dec 1997) "Rapid and reliable methods for detection and determination of Emulsifier/surfactants in microbial cultures and fermentations" at Annual Conference of the Society of Biological Chemist (India), held at Andhra University, Vishakapatnam, Andhra Pradesh, India</p> <p>57. <b>Veenanadig NK &amp; Karanth NGK*</b> (Dec 1996) "Production of Biosurfactant through Solid State Fermentation by Fenthion degrading Bacillus subtilis sps" at Annual Conference of AMI, held at IIT Madras, Tamil Nadu, India</p> <p>58. <b>Veenanadig NK</b>, Anu Appaiah KA &amp; Karanth NGK* (March1995) "Kinetics of Surfactant from Bacillus subtilis" at the National symposium Relevance of Biotechnology", held at Dept of Biotechnology, Cochin, Cochin, Kerala, India. (* <i>Corresponding author</i>)</p>
<b>10.</b>	<b>Selected List of M Tech Projects guided</b>
	<ol style="list-style-type: none"> <li>1. A study on reclamation of abandoned mine soil using biosurfactant.</li> <li>2. Feasibility study on utilization of abandoned mine soil in brick preparation.</li> <li>3. Adsorption optimization of methylene blue dye by acid activated Parthenium carbon</li> <li>4. Statistical analysis of congo red dye adsorption on orange peel.</li> <li>5. Clarification of water using Moriga olifera as a coagulant.</li> <li>6. Evaluation and performance of sand packed column deploying bentonite clay for rapid adsorption of Rhodamine b from aqueous solution.</li> <li>7. Adsorption of fluoride by different leaf powder.</li> <li>8. Modeling of Lead adsorption from aqueous solutions by coir pith and peanut shell using response surface methodology.</li> <li>9. Application of Response surface methodology (Box-Behnken Design) for copper adsorption by agro waste.</li> <li>10. Efficiency of Biosurfactant in the bioremediation of copper contaminated soil.</li> <li>11. A study on the application of Box-Behnken Design for bioremediation of Zinc Contaminated soil using Biosurfactant.</li> <li>12. Bioremediation of oil contaminated soil.</li> <li>13. Production and optimization of a biosurfactant on spent wash using design expert software.</li> <li>14. Study on the quality of groundwater in and around Shanthisagar lake.</li> <li>15. Study of non-point source pollution of Avaragere lake, Davangere.</li> <li>16. Bacteriological quality assessment of street vended panipuri and fruit juices-a case study of Davangere city.</li> <li>17. Performance evaluation of ETP in rayon grade pulp mill Grasim Harihar – a case study Oil recovery by biosurfactant (produced using spent wash).</li> </ol>

11.	<b>Hobbies and Passion</b>
	<p><b>Flair for Sports</b> – Participated in several state level sports meets during college days and won a number of prizes in both individual and team events.</p> <p><b>Accomplished Carnatic Musician</b> - Veena Artist. Trained in classical carnatic music both vocal and instrumental Veena.</p> <p><b>Passionate Gardener</b> -Nurtures and maintains a home Garden of more than 250 different species of plants- ornamental, terrestrial, aquatic flowering, medicinal.</p>
	<p>Dr. Veena Kumara, born and brought up in a traditional Hindu family with strong faith in Indian roots and Vedic culture. She is a proud daughter of Late <b>Smt Seetha Lakshmi and Er.N S Krishna Murthy</b>, Rtd Division Engineer, P &amp; T Dept, Govt of India, Bangalore.</p> <p>Dr Veena is happily married to <b>Dr. Kumara Ganapathi Adi</b>,  Professor,  Electronics and Instrumentation dept,  UBDTCE, Davangere.</p> <p>Dr, Veena is Proud mother of two young boys.</p> <p><b>Yashas Kumara Adi</b> (2002 born) - Presently preserving Electronics and Communication Engineering in PES University, RR Campus, Bangalore. Apart from academics he has flair for sports and Music. He is University Shuttle champion, and also Bangalore Amateur League Champion. He is an excellent volleyball player. He is also into Carnatic classical Vocal, keyboard and Mrudangam. He has given several stage performance.</p> <p><b>Shreyas Kumara Adi</b> (2005 born) – aspiring computer techii, and is into Capture the Flag (CTF), - a special kind of Information Security competitions. To his credentials, he has qualified Amrita InCTF Junior Contest 2020 for school students. He regularly participates in National and International competitions on cyber security. He has an India ranking below 50, and world ranking less than 100 in the field. Apart from academics he is a passionate Violinist and flutist. He is a stage performer. Aspiring to take Carnatic music further. He loves swimming and football.</p>