

Dr. Lingayya Hiremath, Assistant Professor

Dr. Lingayya Hiremath, Assistant Professor		
Educational Qualification	M.Sc., M.Tech., Ph.D. (Biotechnology)	
Experience	Teaching	19 Years
	Research	20 Years
	Industry	01 Year
Area of Interest	Environmental Biotechnology, Microbial Biotechnology, Nanotechnology	
Date of joining RVCE	08-08-2005	
Email ID	lingayah@rvce.edu.in	



Project Guided:

Number of UG projects guided: 45

Number of PG projects guided: 10

Number of Ph.D guiding: 05

Publications:

National Journal: 09

National Conference: 11

International Journal: 33

International Conference: 11

National Journal:

1. Praveen Kumar Gupta, Himashankari.B, Anwesha Sinha, Kandi Arvind Reddy, Priyadharsini V, Lingayya Hiremath, Ajeet Kumar Srivastava. Manuscript entitled on “**Caffeine: Benefits, Risks, And Effects-A Review**”. Accepted for the publication in Indian Journal of Public Health Research and Development. Manuscript Ref No. 1221/IJPHRD/2019.
2. Narendra Kumar S, Lingayya Hiremath, Praveen Kumar Gupta, Ajeet Kumar Srivastava, Akanksha Jain, Abhishek R Hegde, Hamsa L Manuscript entitled on Hyper Immune Response Against T-2 Mycotoxin in *Oryctolagus cuniculus*, in **Research Journal of Pharmacy and Technology**. Manuscript id is paper is RJPT- 6766/08-09-2018.
3. Praveen Kumar Gupta, **Lingayya Hiremath**, S Narendra Kumar, Ajeet Kumar Srivastava, V Shashi kumar. A trend in future bioenergy - A review in Journal of Pharmacy Research Journal of Pharmacy Research | Vol 12 • Issue 2 • 2018. Page 200-205.

4. Narendra Kumar S; Lingayya Hiremath, Praveen Kumar Gupta, Ajeeth Kumar Srivastava, Poornima S **"Industrial Purification Strategies for Monoclonal Antibodies"**, Research Journal of Pharmacy and Technology., 12(1),2017, page 1827-1832.
5. Narendra Kumar S*, **Lingayya Hiremath**, Praveen Kumar Gupta, Ajeet Kumar Srivastava "Industrial Purification Strategies for Monoclonal Antibodies" *Research J. Pharm. and Tech.* 10(10): October 2017
6. **Lingayya Hiremath and G Vijakumar** "Studies on plant cellulose waste for crystal violet textile dye removal by using sugarcane baggage" Journal of Engineering sciences Journal of Environmental Sciences and Engineering,2013.
7. **Lingayya Hiremath et al.**, "Evaluation of phytochemical screening & antibacterial activity of aqueous, ethanol extracts of medicinal plants against few common microorganisms" *International Journal on VCare for life Science Journals – Vol 2*, Issue 4, P.No.5-12 (ISSN: 2231:9522) November, 2012.
8. **Lingayya Hiremath et al.**, "Evaluation of phytochemical screening & antibacterial activity of aqueous, ethanol extracts of medicinal plants against few common microorganisms" International Journal on VCare for life Science Journals – Vol 2, Issue 4, P.No.5-12 (ISSN: 2231:9522) November, 2012.
9. **Lingayya Hiremath & Vijakumar G.** "Bio-adsorption of brilliant blue green textile dye pollutant "International Journal of Chemtech Research, Vol 4, No. 1, pp 319-323, (ISSN: 0974-4290), 2012.

National Conference:

1. Attended and Exhibited KCTU Sponsored Project on Vendor Development and Investor's Summit-2017 (INVEST KARNATAKA), at BIEC, Bengaluru held during 23-24 November-2017.
2. Attended Industry –Academic Interaction Meet and presented on topic "Development of Low Cost Nano Bio adsorbent's for Pharma Waste" held at India International Science Festival, at CSIR, NOIT, IIT, Chennai, during 13-15 Oct- 2017.
3. Attended Workshop on best practices for setting up and making University/college incubators a world class Start-up/Innovation hub by held at Excubator, Bengaluru-12 oct-2017.
4. Received **best Research Paper Award** from CMCB, St. Joseph's College on Topic Phenol Degrading Microbes from Vrashabavati Lake at "Bengaluru Lake Summit 2017" held during 06.03.2017.
5. Selected as "**Best Student Project award**" from Karnataka State Council Science and Technology (KSCST) on project entitled ""Regeneration, Elicitation of Bioactive Compound Extracted from Endangered Medicinal Plant *Mucuna pruriens* and Study of Its Inhibition Activity using Bio molecular Simulation Studies" presentation held at NMAM, Institute of Technology, NITTE, during 11-12th August 2017.
6. **Invited talk** on "Role of Biotechnology in Recycle and Reuse of Pharmaceutical Wastes" at SDS, Institute Rajiv Gandhi Chest Diseases with Karnataka Drug Association, NIMANS, Bangalore 20.05.2017
7. National conference "**Bioremediation of e-waste by live fungus *Aspergillus niger***" presented at NIIT Titchy, Tamil Nadu, held between 26.02.2010.
8. National conference on "**Antifungal properties of *Lantana* proteins**" in Biotechnological approaches in Medicinal and aromatic plants held at New Horizon College of Engineering, Bangalore on 12th and 13th March 2009
9. National conference "**Adsorption of industrial dye using neem power**" in on go green, held at Dept. of Biotechnology, R V College of engineering on 14th November, 2009.

10. National conference “**Biodorption of heavy metals from aqueous solution by fungal stains isolated from e-waste metal polluted soil**” in on go green, held at Dept. of Biotechnology, R V College of Engineering on 14th November, 2009.
11. National conference on go green, “**Absorption studies on the utility of plant cellulose waste for the bio-absorption of textile dye brilliant green**” held at Dept. of Biotechnology, R V College of Engineering on 14th November, 2009.

International Journal:

1. KNV Suguna and **Lingayya Hiremath**, Design and study of BiVO₄/MnCo₂O₄ Nano composites for visible light –driven antibacterial applications Vol 124, No.2, 23 Jan Current Science Journal (**Q1 rated Journal**), 2023,
2. Glen Cletus DSouza, **Lingayya Hiremath**, “**Fungal biodegradation of low-density polyethylene using consortium of *Aspergillus species* under controlled conditions**, *Heliyon* (**Q1 rated Journal**), Vol. P.P. 1-6. 2021 published
3. **Modeling and Efficiency assessment of the up flow bed process packed with *Moringa oleifera* for continuous Cd (II) removal from drinking water**, Rajeswrt M, Lingayya Hiremath, Published in *Journal of Molecular Structure*, 1236 (2021) 130328.
4. Glen Cletus DSouza, Lingayya Hiremath, “**Fungal biodegradation of low-density polyethylene using consortium of *Aspergillus species* under controlled conditions**, *Heliyon* (**Q1 rated Journal**), Vol. P.P. 1-6. 2021 published
5. **Modeling and Efficiency assessment of the up flow bed process packed with *Moringa oleifera* for continuous Cd (II) removal from drinking water**, Rajeswrt M, Lingayya Hiremath, Published in *Journal of Molecular Structure*, 1236 (2021) 130328.
6. “**Bioconversion Of Lignocellulosic Biomass To Ethanol Using Different Microorganisms**” International Journal of Advance Research, **Article DOI:10.21474/IJAR01/15109, DOI URL: <http://dx.doi.org/10.21474/IJAR01/15109>, ISSN: 2320-5407, Int. J. Adv. Res. 10(07), 885-893-2022**
7. Narendra Kumar S*, **Lingayya Hiremath**, Praveen Kumar Gupta, Ajeet Kumar Srivastava, Akanksha Jain, Abhishek R Hegde, Hamsa L Manuscript entitled on Hyper Immune Response Against T-2 Mycotoxin in *Oryctolagus cuniculus* accepted in **Research Journal of Pharmacy and Technology. Manuscript id is paper is RJPT- 6766/08-09-2018.**
8. Praveen Kumar Gupta, Priyanka V, **Lingayya Hiremath**, S Narendra Kumar, Ajeet Kumar Srivastava on Extraction of Phytochemicals from *Eucalyptus Spp.* & *Withania Somnifera* and Their Biological Testing . *American Journal of Microbiological Research*. 2018. Vol. 6, No. 4, 115-123. DOI:10.12691/ajmr-6-4-1
9. **Lingayya Hiremath**, Narendra Kumar S and Sukanya P, “Development of an Antimicrobial Smart Textiles Fabricated with Magnetite Nanoparticles Obtained through Green synthesis” *Elsevier Materials Today Proceeding, Science Direct*, 5 (2018) 21030–21039, 2018.
10. **Lingayya Hiremath**, Praveen Kumar Gupta and Ajeeth Kumar S “**Functionalized Cellulose Nanofiber Composite Membranes for Waste Water Treatment -a Review**” *Journal of Nanotechnology and Materials Science*, Omega Science Publishers, USA, DOI/Scopus Vol 5:1 35-43 (ISSN:2377-1372), 2018
11. Praveen Kumar Gupta, **Lingayya Hiremath**, S. Narendra Kumar, **A trend in future bioenergy - A review** *Journal of Pharmacy Research* | Vol 12 • Issue 2 • 300-3015- 2018
12. **Lingayya Hiremath**, Praveen Kumar Gupta, S. Narendra Kumar, Ajeet Kumar Srivastava, N. S. Keerth “Evaluation of fungal antagonists for controlling sugarcane (Var. CoC. 671) red rot disease “*Journal of Pharmacy Research* | Vol 12 • Issue 1 • 134-140- 2018

13. Praveen Kumar Gupta, Priyanka V, **Lingayya Hiremath**, S Narendra Kumar, Ajeet Kumar Srivastava "Extraction of Phytochemicals from *Eucalyptus Spp.* & *Withania Somnifera* and Their Biological Testing" *American Journal of Microbiological Research*, , Vol. 6, No. 4, 115-123, 2018
14. Narendra Kumar S, **Lingayya Hiremath**, Praveen Kumar Gupta, Ajeeth Kumar Srivatsava, Aishwarya Bhat, "Concentration Of Lead And Cadmium In Common Vegetables Consumed Bangalore And The Health Effects" *International Journal of Advance Research ISSN: 2320-5407* 5(9), 979-982 -2017
15. Praveen Kumar Gupta, **Lingayya Hiremath** ,V .Priya dharsini, Anismita Saha, Ananya Badrinath, Mallappa Kumara Swamy, manuscript entitled on Natural Compounds Extracted from Marigold- Oldest Ornamental Plant as an Herbal Medicine " **accepted for the upcoming book entitled on "Medicinal Plants: Chemistry, Pharmacology, and Therapeutic Applications". by CRC Press (Taylor and Francis group)2018**
16. Praveen Kumar Gupta, Priyanka V, **Lingayya Hiremath**, S Narendra Kumar, Ajeet Kumar Srivastava. manuscript entitled on Extraction of Phytochemicals from *Eucalyptus Spp.* & *Withania Somnifera* and Their Biological Testing accepted in the *American Journal of Microbiological Research*, 2018,
17. **Lingayya Hiremath**, Mahadevi Narasanagi, Sukanya P, Praveen Kumar Gupta and Mallappa Kumara Swamy, manuscript entitled on "Microalgae as a novel source for producing Pharmaceutical bioactive compounds" accepted for the upcoming book entitled on " **Natural Bioactive compounds: Production and Applications" by Springer. 2018**
18. Praveen Kumar Gupta, **Lingayya Hiremath** and Narendra Kumar S. "Nanotechnology Based Sustained Action Drug Delivery System a Review" *European Journal of biotechnology and bioscience*, ISSN: 2321-9122, Impact factor: 5.44, Pp. 60-67 Vol. 5(4.), 2017.
19. Ajeet Kumar, Narayan A.V. Narandra Kumar, Praveen Kumar and **Lingayya Hiremath** "Green Liquor Pretreatment for the Enhancement of Enzymatic Scarification of Rice Husk for Ethanol Production" *International Journal Advance Research* (ISSN 2320-5407, Impact factor 5, UGC Approved Journal) 5(10), 139-143, 2017.
20. Narendra Kumar, **Lingayya Hiremath** and Praveen Kumar Gupta "Concentration of Lead and Cadmium in Common Vegetables Consumed Bangalore and the Health Effects" *International Journal Advance Research* (ISSN 2320-5407, Impact factor 5, UGC Approved Journal), 5 (9), 979-982, 2017.
21. Narendra Kumar, **Lingayya Hiremath**, Ajeeth Kumar and Praveen Kumar Gupta, "Industrial Purification Strategies for Monoclonal Antibodies" *Research J. Pharm. and Tech.* 10(10): ISSN 0974-3618,1827-1832, October 2017(UGC Approved Journal)
22. Ajeet Kumar, Narayan A.V. Narandra Kumarand **Lingayya Hiremath** "Solvent- based Delignification of Rice Straw for Efficient Enzymatic Hydrolysis of Cellulose and Bioethanol Production" *International Journal of Innovative Research in Science, Engineering Technology*(ISSN-2384-4230, A **High Impact factor & UGC Approved**), Vol. 6, Issue 8, 130-139, 2017.
23. Book Chapter: Lingayya Hiremath, Keerthi N.S. and Sukanya P, "Development of Nano Bio-composite Membranes for Wastewater Treatment" is accepted for book Chapter in, *Advanced Engineering Research and Applications (AERA)* by Research India Publications, 2017.
24. Book chapter accepted for publication, Lingayya Hiremath "Micro propagation and conservation of endangered anticancer medicinal plants from Western Ghats of India", *Springer Journals of Biotechnology*, (In Press) 2017.
25. **Lingayya Hiremath**, Vijakumar G, Narendra Kumar S and Gordon Bloch (Fleming College, Canada) "Biosynthesis of magnetite nanoparticles from weed plants and their utilization in waste water treatment" *Asian Journal of Environmental Biotechnology, Nanotechnology*, Vol.17, No (2), 129-136, 2017(Scopus Indexed) H-Indexed, UGC Approved Journal).

26. **Lingayya Hiremath**, Narendra Kumar S and Sukanya P, "Development of an Antimicrobial Smart Textiles Fabricated with Magnetite Nanoparticles Obtained through Green synthesis" *Elsevier Materials Today Proceeding*, 20 -22 Oct. 2016.
27. **Lingayya Hiremath**, Vijaya Kumar G and Satyanarayana B.S, "Exploitation of live fungus (*Aspergillus niger* RV-11) for Bioremediation of Heavy metals from E-waste" *International Journal of Chemical and Environmental Engineering*, Vol.6. No.3. Pp- 184-189, ISSN- 2078-0737, 2015.
28. **Lingayya Hiremath**, "Design, Screening and Microbial Synthesis of Bio-Poly-Hydroxy-Butyrate (PHB) from Low Cost Carbon Sources" *International Journal of Advance Research*, Vol.3, Issue 2, Pp. 420-425, ISSN- 2320-5407, Impact factor. 1.65, Index Copemicus Value. 4.96, 2015.
29. **Lingayya Hiremath** and G Vijakumar "Studies on plant cellulose waste for crystal violet textile dye removal by using sugarcane baggase" *Journal of Engineering sciences Journal of Environmental Sciences and Engineering* (communicated) 2013.
30. **Vijakumar**, Pushpa Agrawal and **Lingayya Hiremath** "Utility of plant cellulose waste for biodegradation of brilliant blue green textile dye pollutant" *International journal of Chemtech research*, Vol 4, No. 1, pp 319-323, 2012. ISSN: 0974-4290. **Impact factor: 2 (Cited by Journal of Colloid and Interface Science, Elsevier publication, impact factor 7.5).**
31. **Lingayya Hiremath**, Mahesh S, et al, " An Idea on bacterial laser and bacterial therapy to treat kidney stones" *Global Journal Modern Biology & Technology* 2 (1) Pp.: 35-38: 2012. ISSN: 2277-6656.
32. **Lingayya Hiremath et al.**, "Evaluation of phytochemical screening & antibacterial activity of aqueous, ethanol extracts of medicinal plants against few common microorganisms" *International Journal on VCare for life Science Journals – Vol 2*, Issue 4, P.No.5-12 (ISSN: 2231:9522) November, 2012.
33. **Lingayya Hiremath et al.**, "Evaluation of phytochemical screening & antibacterial activity of aqueous, ethanol extracts of medicinal plants against few common microorganisms" *International Journal on VCare for life Science Journals – Vol 2*, Issue 4, P.No.5-12 (ISSN: 2231:9522) November, 2012.
34. **Lingayya Hiremath & Vijakumar G.** "Bio-adsorption of brilliant blue green textile dye pollutant" *International Journal of Chemtech Research*, Vol 4, No. 1, pp 319-323, (ISSN: 0974-4290), 2012.
35. R. Suresh, **Lingayya Hiremath** and G.Vijakumar "Application of ultrasound microbial treatment for biomass effluent" *Journal of applied sciences in environmental sanitation* 6 (1): 63-68. 2011. ISSN 0126-2807 (**Impact factor: 1.2**).
36. **Lingayya Hiremath**, Puspha Agrawal & Manjunath Reddy " Isolation, Purification, Characterization and anti-fungal properties from proteins from *Lantana camara* against *Colletotrichum falcatum* " *International Journal of Engineering Sciences and Research*, 09754024 (Scopus Indexed) Vol2, Issue-4, Pp. 374-378, 2011. ISSN: 2230-8504 (Impact factor: 1.80)

International Conference:

1. **Invited for Indo-UK British council Invited (Newton's fund)** talk on "Bio-adsorbent Materials for Water Purification", at Centre for Nanotechnology and School of Chemical Sciences Mahatma Gandhi University, Kottayam, Kerala, held during 12 to 16 December 2016.
2. **Invited for Panel discussion 8th Bangalore India Nano International conference**, Presented on "Magnetite Nano Particles for Wastewater Treatment" held at The Lalit, Ashoka, Bengaluru-01, during 3 to 5 th March 2016.
3. Attended and Presented Paper on "**Exploitation of live *Aspergillus niger* Fungus for recovery of heavy metals from E-waste**" at International conference on "4th International Renewable Energy and Environment Conference - IREE-2015" held at **Prague, Czech Republic**, during 4-6 June 2015.

4. Presented paper at International Conference on Climate change Resilience (ICCR-2015) on topic entitled **“Detection of pathogens in food and water by Nano Biosensors”**, Dept. of Environmental sciences, School of life Sciences, Pondicherry University, Pondicherry, held during, 4-7th October, 2015.
5. Attended & Presented paper at 7th International Congress of Environmental Research- ICER-2014 on **“Synthesis and characterization of Nano-fibres and investigation on their antimicrobial property”**, held at RVCE, during 24-26 December 2014.
6. Attended & Presented paper at 7th International Congress of Environmental Research- ICER-2014 on **“E-waste precursor for nanoparticle synthesis and adsorbent production”** held at RVCE, during 24-26 December 2014.
7. Annual conference on **“Environment and Sustainability Walk the Talk”** Sponsored by Confederation on Indian Industry (CII) at The Taj West End, Bangalore on 15th Feb, 2013.
8. One day workshop on **“ Inter University Accelerator Facility Workshop”** held at Karnataka State Higher Education Council, Palace Road, Bengaluru-01, during 27.08.2012.
9. International conference **“CHEMCON”** Presented paper on **“Adsorption of heavy metals by live fungus *Aspergillus niger*”** held at Indian Institute of Science, Bangalore during 27th-29th December- 2011.
10. Indo-Australian Conference on **“Biotechnology In Medicine”** held at Indian Institute of Science, Bangalore, on Feb. 9-11, 2004.
11. **“Winter School in Immunology”** Sponsored by, Harvard Medical School, University of Connecticut San Francisco U.S. A., held at Taj Fort Aguada, Goa, India, on 15-22nd Dec.2002.

FDP/Workshops/ Seminars/ Symposium attended:

1. Yoga Certificate from Dept of Ayush, Yoga Certification Board and Indian Yoga Association- 2023.
2. Attended one week Faculty Development Program on **Biofuels –Recent Trends and Future Prospects** held at Shree Buddha College of Engineering, Kerala on 30th August to 3rd September- 2021
3. Attended Two days’ Workshop/Project Presentation organized by Department of Science and Science Technology, Govt. of India (DST-WIT) Sponsored Program/Project Presentation on **“Biomedical & E-Waste Management”** K L Deemed, University, Vaddeswaram, Guntur District, Vijayawada, Andhra Pradesh during 10&11-December-2018
4. Awareness workshop on Understanding the “Biological Diversity Act, 2002, and its Legal Provisions” organized by Karnataka biodiversity board and MoEF abs project *The Capitol Hotel, Raj Bhavan Road, Bengaluru on 16th November 2018.*
5. Attended Five days short term course on **“Genetic Engineering -Principle and Applications”** held at Centre for Continuing Education (CCE) at Indian Institute of Science (IISc) during 24-28 April 2017.
6. Attended workshop on **“Compliances of Biodiversity Act 2012 with access and benefit sharing provisions”** conducted Government of Karnataka –Karnataka Biodiversity Board, held at The Capital Hotel, Rajabhavan Road, Bangalore during 12 July 2017.
7. Attended **Five days** ICT-based-NITTR (National Institute of Teachers Training & Research, Chandigarh), Faculty Development programme on **“Research Methodology”** held at RVCE, during 09 – 13th Jan 2017.
8. Attended **Five days’** Workshop and Presented research paper during **Indo-UK British council funded** Newton’s fund workshop on **“Bio-adsorbent Materials for Water Purification”**, at Centre for Nanotechnology and School of Chemical Sciences Mahatma Gandhi University, Kottayam, Kerala, held during 12 to 16 December 2016.

9. Attended three days **Faculty development Programme** (TEQIP-II)/Hands on “Biomaterials, Bio diagnostics, Tissue Engineering and Regenerative Medicine” held at **Indian Institute of Technology (IIT), New Delhi** during 15th April 17th April 2016.
10. One day workshop on “**Make in India prospects, possibilities and paths**” (TEQIP-II Initiative) held at RV College of Engineering Bangalore on 30th Jan 2016.

Books Published:

1. **Green and Clean technology, Innovations and Applications** by IK International Publishers New Delhi-110002, ISBN: 978-81-95966-24-0 India 2024

Book Chapters Published:

1. Bioactive Molecules against Infectious Diseases Current Concepts & Updates- Published by Innovationinfobooks, Healthrow Stockey Park, UBI, UK. ISBN: 978-1-63278-998-3, Published in Year Jan-2021.
2. Bioprocess Technology of Hydrocitric Acid and their Pharmacology- Natural Product of *Garcinia camogia*, published by Scholars Press, ISBN: 978-1-63278-998-3. Year of Publication: 2020.
3. Biofuel- An Alternative to Conventional Fuel- Save nature for future, published by Scholars Press. ISBN: 978-1-63278-998-3 Year of Publication: 2019.
4. Lingayya Hiremath and Sukanya P, Book chapter published on “Micro propagation and conservation of endangered anticancer medicinal plants from Western Ghats of India”, Springer Journals of Biotechnology, Springer Nature Series 2018 ISBN 978-981-10-8064-7. DOI: 10.1007/978-981-10-8064-7
5. Lingayya Hiremath, Vijaya Kumar G and Vidya C "Development of Nano Bio-composite Membranes for Wastewater Treatment" is accepted for book Chapter in, *Advanced Engineering Research and Applications (AERA)* by Research India Publications, 2017
6. Sindhu Rajendran R, Praveen Kumar Gupta, Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar. Manuscript entitled on "The essence of deep learning for security issues- An update." accepted for the upcoming book, "Handbook of Research on Deep Learning Innovations and Trends." By IGI Global. e Editorial Discovery.
7. Sindhu Rajendran R, Meghamadhuri Vakil, Praveen Kumar Gupta, Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar. Manuscript entitled on “An Overview on the concept of Speaker Recognition." accepted for the upcoming book, "Intelligent Systems for Biometric Systems, Soft Computing, Image Processing, and Data Analytics" By Apple Academic Press in collaboration with CRC press Hard ISBN: 9781771888004.
8. Ajeet Kumar Srivastava, Praveen Kumar Gupta, Lingayya Hiremath, S Narendra Kumar. Chapter entitled on “Biodegradation of lignocellulosic biomass and production of ethanol using potential microorganisms” accepted for the upcoming book, “upcoming book “Mycodegradation of Lignocelluloses" By Springer ISBN: 978-3-030-23833-9.
9. Vishwanatha T Sharangouda J. Patil, Siddalingeshwar K. G. and Lingayya Hiremath, Isolation and Screening of Lipase Producing Microbes from Oil Contaminated Soil, A Book of Original Research Article: publication in *Advances in Bioplastics*, © PG and Research Centre in Biotechnology, ISBN 978-93-5291-689-4-7-14, 2019.
10. Gupta Praveen Kumar, ShreeVidhya, Hiremath Lingayya and Rajendran Sindhu. Chapter entitled on Recent Advances in Computational Intelligence" published in book, "Computational Intelligence" By Springer International Publishing 2019. https://doi.org/10.1007/978-3-030-12500-4_11, eBook ISBN 978-3-030-12500-4, Hardcover ISBN 978-3-030-12499.
11. Sindhu Rajendran R, Praveen Kumar Gupta, Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar. Chapter entitled on "An Update on Effective Patient Monitoring and Diagnosis of Diseases in the Current Scenario" published in book "Computational Intelligence" By Springer International

Publishingr.2019. https://doi.org/10.1007/978-3-030-12500-4_11, ., eBook ISBN 978-3-030-12500-4, Hardcover ISBN 978-3-030-12499-1

12. Praveen Kumar Gupta, Vidhya Shree, Lingayya Hiremath and Sindhu Rajendran, The Use of Modern Technology in Smart Waste Management and Recycling: Artificial Intelligence and Machine Learning, © Springer Nature Switzerland AG 2019 R. Kumar and U. K. Wiil (eds.), Recent Advances in Computational Intelligence, Studies in Computational Intelligence 823, https://doi.org/10.1007/978-3-030-12500-4_11
13. Malppa Kumarwamy, Lingayya Hiremath and Sukanya P, Book chapter published on “Micro propagation and conservation of endangered anticancer medicinal plants from Western Ghats of India”, Association with Malaysia, Springer Journals of Biotechnology, *Springer Nature Series* 2018 ISBN 978-981-10-8064-7. DOI: 10.1007/978-981-10-8064-7
14. Praveen Kumar Gupta, Nividha Bhandari, Hardik N. Shah, Vartika Khanchandani, R. Keerthana, Vidhyavathy Nagarajan and Lingayya Hiremath, An Update on Nanoemulsions Using Nanosized Liquid in Liquid Colloidal Systems, Nanoemulsions - Properties, Fabrications and Applications, Web of Science open tech, An Update on Nanoemulsions Using Nanosized Liquid in Liquid Colloidal Systems DOI: <http://dx.doi.org/10.5772/intechopen.84442>, 2017.
15. Lingayya Hiremath, Vijaya Kumar G and Vidya C "Development of Nano Bio-composite Membranes for Wastewater Treatment" is accepted for book Chapter in, Advanced Engineering Research and Applications (AERA) by Research India Publications, 2017
16. Book chapter “Micro propagation and conservation of endangered anticancer medicinal plants from Western Ghats of India”, *Springer Journals of Biotechnology*, (In Press) 2017.
17. Book Chapter: "Development of Nano Bio-composite Membranes for Wastewater Treatment" is accepted for book Chapter in, Advanced Engineering Research and Applications (AERA) by Research India Publications, 2017.

Interaction with Outside World:

1. Nutrisukan Biotech Pvt. Ltd, Bangalore with RVCE on the Health and Nutrition.
2. Stroma Biotech Pvt. Ltd, with RVCE to work on stem cells and Animal Cell culture techniques.
3. LifySignals with RVCE, to carryout IoT based and biosensor applications
4. *RESERWATER*, Innovations, (NSDC Approved Certification) With RVCE, working on collaborative research and training program on Water Related allied sectors.
5. *Canada, Fleming College*, Center for Alternative and Wastewater Treatment (CAWT).
6. *Institute of Animal Health and Veterinary Biologicals (IAH &VB)*, Hebbal Bengaluru on Animal Models and Biosensors (MoU with RVCE)
7. Satva Health Solutions Pvt. Ltd, with Pharmaceutical waste management. With RVCE
8. MoU with *Institute of Animal Health and Veterinary Biologicals (IAH &VB)*, Hebbal Bengaluru on Animal Models and Biosensors (Initiated MoU).
9. *MoU with LifySignals* RVCE, to carryout research activities 2018
10. Satva Health Solutions Pvt. Ltd, MoU with RVCE, on Pharmaceutical waste management and recycling, reuse and extraction of useful products from pharma waste by innovative biotechnological methods research activities, 2017.
11. Institute of Animal Health and Veterinary Biologicals (IAH &VB), Hebbal Bengaluru on Animal Models and Biosensors, Animal husbandry, IoT applications in Domestic animals research activities, MoU with RVCE, 2017.
12. *RESERWATER*, Innovations, (NSDC Approved Certification) With RVCE, working on collaborative research and training program on Water Related allied sectors.

13. K- Pack System, Pvt. Ltd, Vasanth Nagar Bengaluru, on Sewage Treatment Plant (STP) Microbial assessment in sewage water.

Funded Projects:

1. Funds received from Karnataka State Council for Science and Technology (KSCST) **Ref no: 41S_B_BE_081** With the project title “**Production of bacterial cellulose from sewage and its use in power generation through enzymatic fuel cell formulation.**” **Rs.0.10 Lakhs -2018 (Continued project for Next Series also-2019)**
2. Funds received from **Govt. of India Design Clinic MSME Scheme National Institute of Ahmadabad** (Ref. No. SDP-17-1007) on topic entitled “**Design of a Horizontal Photo Bioreactor and Extraction of valuable Compounds from expired Pharmaceutical Drugs using Microalgae**” Amount of Rs. 2.00 Lakhs. 2018
3. Royalty amount received for **Startup pitched up received in Amazon Web Services (AWS)** for 1000 \$USD + 5000 \$USD Business Support in the name of **Cellulose startups** Account Id: 901743204839 Application Reference No. WJVKBLTX from BIREC-C CAMP Bangalore.
4. Royalty amount received for **Startup pitched up received in Amazon Web Services (AWS)** for 1000 \$USD + 5000 \$USD Business Support in the name of **Bio space startups** Account Id: 845005033711 Application Reference No. X9LOIC82 from BIREC-C CAMP Bangalore.
5. Funds sanctioned to setup R&D Centre on “**Waste to Clean Energy Lab**” by KCTU- Karnataka Council for Technological Upgradation (A Joint Venture of Govt. of India and Govt. of Karnataka) at R.V. College of Engineering, (Sanction order No. KCTU/R&D/RV-WCE/2017-18/160) Total cost of the Project cost of **Rs. 55.00 Lakhs- 2017.**
6. Funds received from Karnataka State Council for Science and Technology (KSCST) on topic “**Regeneration, Elicitation Of Bioactive Compound Extracted From Endangered Medicinal Plant *Mucuna pruriens* And Study Of Its Inhibition Activity Using Bimolecular Simulation Studies**” (Ref. No. 40S_BE_2138) of amount Rs0.075 Lakhs- 2017 (Selected and Awarded as **Best Student Project Award** from KSCST.)
7. Funds Received from TEQIP-II Initiative 1.2.1 COE, on topic “**Development of Toxin Immunosensors for Water Quality Monitoring**”(Ref. No. RVCE/TEQIP/COE16/17 dated on 15.02.2017) of Amount Rs. 0.85 Lakhs, 2017.
8. **Seed Money for “Young Scientist for Research” (SMYSR) from Vision Group on Science and Technology (VGST) Government of Karnataka** on topic “Development and bio synthesis of Magnetite nanoparticles by weed plant *Lantana camara* - a cost effective technique to treat polluted water”(Funds: **Rs. 6 Lakhs.**) on Jan-2014.
9. **Funds received from Karnataka State Council for Science and Technology (KSCST)** topic entitled “Generation of bio-electricity from waste water and cellulose based wastes using microbial fuel cell”(Funds: **0.04 Lakhs and successfully Completed the project**) Feb – 2013.
10. **Funds received/Installed Sewage Treatment Plant (STP) at RVCE, from K-Pack System Pvt. Ltd.** Sewage Water Treatment Plant (STP), Designed at Holland and Fabricated by K- Pack System, Installed at RVCE On 2011 (**Rs. 7 Lakhs of two STP reactors**) **Topic: “Microbial treatment of Sewage Water” ongoing project.**

Consultancy Projects:

1. Testing samples from various Institutes and Industries to carryout GC-MASS analysis
2. **Testing and treatment of Pharmaceutical wastewater treatment** process using domestic sequential batch reactor (STP) with K-Pack Pvt. Limited. as per IS 10000 standards.

3. Sewage **Treatment biological wastewater treatment** process using domestic sequential batch reactor (STP) with K-Pack Pvt. Limited.
4. **Water Quality Testing** and cost-effective bio adsorbent for wastewater Treatment (STP).

Awards:

1. **Best Young Researcher** Award from Indian Science Technical Education RVCE Chapter for the academic Year 2022-2023
2. National Level Best Engineering Project of Year Award with cash prize from Shrishti, national level Technical Project Exhibition held at Koattayam Kerala on April 2022.
3. Received the Honor From **Rashtreeya Sikshana Samithi Trust (RSST)- for “Outstanding Special Achiever of Year Award”** at RV Teachers Building, Jayanagar, Bengaluru on 26.01.2020
4. **Received Prize from Kannada Sangh on Debate Compilation held during Ambari Kannada Fest, received certificate at IEM, Auditorium, RVCE on 21.01.2019.**
5. **Received the Honor From Rashtreeya Sikshana Samithi Trust (RSST)- for “Special Achiever of Year Award”** at RV Teachers Building, Jayanagar, Bengaluru on 26.01.2019.
6. Received **“Best Engineering Project (Biofuel) of the year Award”** with cash prize from **Karnataka State Council Science and Technology (KSCST)** on project entitled **Production of bacterial cellulose from sewage and its use in power generation through enzymatic fuel cell formulation** presentation held at BIET, Davanagere 11 & 12 August 2018
7. Honored as **“Achiever of the year”** by Rashtreeya Sikshana Samithi Trust (RSST), Jayanagar, Bengaluru held during 26th August 2018.
8. Received **“Best Engineering Project of the year Award”** with cash prize from **Karnataka State Council Science and Technology (KSCST)** on project entitled **“Pre-Clinical Investigation of Combo Drug Containing L-Dopa and Ceftriaxone in Mouse Models of Parkinson’s Disease”** presentation held at NMAM, Institute of Technology, NITTE, during 11-12th August 2017.
9. Awarded as **“Best Engineering Project of the Year award”** from Karnataka State Council Science and Technology (KSCST) held at NMAM, Institute of Technology, NITTE, during 11-12th August 2017.
10. Rashtreeya Sikshana Samithi Trust (RSST), Honored as **“Special Achiever of the year”** for Ino-UK, British Council (Newton’s Fund) Invited talk at MGU, Kerala, Honored at RSST Trust on 26th Jan 2017.
11. Awarded as **“Nava Chetana Vidhyani”** by Siddarameshwar Education Reg. Trust, Belagavi, Karnataka, during 12 June 2016.
12. **RSST–Honored Achiever of the year** for Presented at UB Technological University at Prague, Czech Republic and Received Best paper 2015.
13. **Young Scientist State Award from-** Govt. of Karnataka, Vision Group of Science and Technology (VGST) 2014.