

Dr. Praveen Kumar Gupta, Assistant Professor

Dr. Praveen Kumar Gupta		
Designation		Assistant Professor
Educational Qualification	M.Tech, Ph.D.	
Experience	Teaching	15 Years
	Industrial	01 Year
	Research (Along with teaching)	10 Years
Area of Interest	Recovery of useful products from agricultural wastes. Biopharmaceuticals and drug development. Molecular Medicine (Proteomics & Genomics)	
Date of joining RVCE	01-12-2009	
Email ID	praveenk Gupta@rvce.edu.in	



Project Guided:

Number of UG projects guided: 16

Number of PG projects guided: 08

No. of Publications:

National Conference: 02

International Conference: 06

National Journal: 17

International Journal: 39

National Conference:

1. Poster presentation in Bangalore India Bio Trade Show on **“Xylooligosaccharides production and purification Separation by Using Enzymatic Method”** on 9-11th Feb 2016 at The Lalit Ashok, Bangalore.
2. Poster presentation in National Conference on **“Recent Advances in Health, Agriculture & Environmental Biotechnology”** on 11th -13th April 2012 at MSRIT Bangalore, India.

International Conference:

1. **Praveen Kumar Gupta, Varun Ullanat, Ryna Shireen Sheriff, and Brahmanand Dattaprasakash. Abstract entitled “VACCINE DELIVERY FOR THE TREATMENT OF AIDS AND CANCER” International Conference on Biotechnological Advances In Medicinal Plants And Natural Products, Organized by Garden City University Bangalore Biorujivith - 2019 |Page 99. OP-80**
2. Akshatha Prasanna, Pooja R, Suchithra V, Akhil Ravikumar, **Praveen Kumar Gupta**, Vidya Niranjana. Smart Drug Delivery Systems for Cancer Treatment Using Nanomaterials. **Materials Today Proceedings-Elsevier 2018. 5 (2018) 21047–21054**
3. Rajeswari M, Pushpa Agrawal, **Praveen Kumar Gupta**, Green Synthesis and Characterization of Multifunctional Zinc Oxide Nanomaterials using Extract of Moringa Oleifera Seed. **Materials Today Proceedings-Elsevier 2018. 5 (2018) 20996–21002**
4. **Praveen Kumar Gupta**, Simran Singh, Rajeswari M. Tabitha Janumala, “Detection of Stress using Biosensor” **Materials Today: Proceedings Elsevier 2018, 5 (2018) 21003–21010.**
5. Praveen Kumar Gupta*, Pushpa Agrawal and Prabha Hedge. **Abstract entitled “EXTRACTION OF XYLOLOIGOSACCHARIDES BY USING Aspergillus niger FROM ORANGE AND TOBACCO WASTE”.** 7th International Congress of Environmental Research. ICER-14. Organized by R.V College of Engineering, Bangalore. Page-48. LS-219.
6. Paper presented in International conference on **“Biotechnology, Bioinformatics and Bioengineering”** on 28-29 June 2013 organized by Society for Applied Biotechnology (India) at Tirupati, Andhra Pradesh India.

National Journal:

1. Megha S Shetty, **Praveen Kumar Gupta**, Shreya Choudhary, Narendra Kumar S, Lingayya Hiremath, Ajeet Kumar Srivastava, Keshamma E manuscript entitled “VALUE ADDITION ON THE CURRENT UPDATES OF EPIDERMOLYSIS BULLOSA” accepted in **Indian Journal of Public Health Research and Development. Manuscript Ref No. 1001/IJPHRD/2020.**
2. **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**
3. **Praveen Kumar Gupta**, Kandi Arvind Reddy, Anwesha Sinha, Sneha B, Joyce Paleti and Anushree Vinayak Lokur. Production and optimization of L-citrulline by using watermelon peels. Published in **Journal of Pharmacognosy and Phytochemistry 2019; 8(4): 3231-3237. E-ISSN: 2278-4136.**
4. **Praveen Kumar Gupta**, B S Rithu, Shruthi A, Anushree Vinayak Lokur, Raksha.M. **Phytochemical screening and qualitative analysis of Cymbopogon citratus. Published in Journal of Pharmacognosy and Phytochemistry. 2019; 8(4): 3231-3237. E-ISSN: 2278-4136**
5. **Praveen Kumar Gupta***, Sachi Mehra, Vandana T, Priyadharsini V. Manuscript entitled on **FOURIER TRANSFORM INFRARED SPECTROSCOPIC ANALYSIS OF EXTRACTED FRUCTOOLIGOSACCHARIDES FROM ORGANIC WASTE. Accepted in Indian Journal of Advances in Chemical Science (Manuscript Number): IJACS-2018-07-024.**
6. Pratheek Sharma, Harshit Beria, **Praveen Kumar Gupta**, Sumathra Manokaran, A.H. Manjunatha Reddy. Prevalence of hypertension and its associated risk factors. **J. Pharm. Sci. & Res. Vol. 11(6), 2019, 2161-2167**
7. **Narendra Kumar S***, Lingayya Hiremath, **Praveen Kumar Gupta**, Ajeet Kumar Srivastava, Akanksha Jain, Abhishek R Hegde, Hamsa L. Response Against T-2 Mycotoxin in Oryctolagus

cuniculus. **Research Journal of Pharmacy and Technology**. *Research J. Pharm. and Tech.* 12(1): January 2019. Page : 237-240

8. **Priyanka V, Praveen Kumar Gupta**, "A Review on Rheumatic Heart Disease". *Journal of Cardio Vascular Diseases*. 2018. **2018; 9(3):109-114**.
9. **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.
10. Lingayya Hiremath*, **Praveen Kumar Gupta**, S Narendra Kumar, Ajeet Kumar Srivastava, Keerthi N.S, Sukanya P. Evaluation of Fungal Antagonists for Controlling Sugarcane (Var. CoC. 671) Red-rot Disease. *Journal of Pharmacy Research article manuscript Number*. Vol 12 • Issue 1 • 2018. Page 134-140.
11. 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.
12. Prabha Hegde, Pushpa Agrawal, **Praveen Kumar Gupta; Isolation and optimization of polyphenols from the peels of orange fruit**. *Journal of Chemical and Pharmaceutical Sciences*. Volume 8 Issue 3, September 2015.

International Journal:

1. Chaithra G * and Praveen Kumar Gupta, The biomedical importance of zinc and its use in treating COVID-19: An overview. *GSC Biological and Pharmaceutical Sciences*, 2023, 25(01), 048–062. : <https://doi.org/10.30574/gscbps.2023.25.1.0111>
2. Kumar Gupta P, Munivenkatappa Byregowda S, Munivenkatarayappa A, Hanumegowda R, Chithananthan C, S Daptardar S, et al . A Review of the Diabetic Status in India. *IJDO* 2022; 14 (4) :231- 239 URL: <http://ijdo.ssu.ac.ir/article-1-749-en.html> 10.18502/ijdo.v14i4.11231.
3. Ms. Anusha Jain, Mr. Santosh Vishwanathan, Ms. Swetha S, Ms. Kavitha S N, Dr. Praveen Kumar Gupta, Ms. Rashmi R. SMART IRRIGATION SYSTEMS AND WEBSITE-BASED PLATFORM FOR FARMER WELFARE in *journal International Journal of Scientific Research in Engineering and Management (IJSREM)*. Volume: 06 Issue: 09 | September – 2022. DOI: 10.55041/IJSREM16465.
4. Ms. Swetha, Ms. Anusha Jain, Mr. Santosh Vishwanathan, S, Ms. Kavitha S N, Dr. Praveen Kumar Gupta, Ms. Rashmi R. **Review-QUANTUM TELEPORTATION** in *journal International Journal of Scientific Research in Engineering and Management (IJSREM)*. Volume: 06 Issue: 09 | September – 2022. DOI: 10.55041/IJSREM16464
5. S. Rajendran, S. Giridhar, S. Chaudhari, P.K. Gupta, Technological Advancements in Occupational Health and Safety, Measurement: Sensors, <https://doi.org/10.1016/j.measen.2021.100045>.
6. Apoorva Saxena, Praveen Kumar Gupta manuscript "HIV/AIDS: CURRENT UPDATES ON THE DISEASE, TREATMENT AND PREVENTION" accepted in *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences* by Springer. Manuscript ID NASB-D-19-00372R4.
7. **Gupta, P. K.**, Nawaz, M. H., Mishra, S. S., Roy, R., Keshamma, E., Choudhary, S., Saxena, A., & Sheriff, R. S. (2020). Value Addition on Trend of Tuberculosis Disease in India- The Current Update. *International Journal of TROPICAL DISEASE & Health*, 41(9), 41-54. <https://doi.org/10.9734/ijtdh/2020/v41i93031> (Pubmed indexed)
8. **Gupta, P. K.**, Mishra, S. S., Nawaz, M. H., Choudhary, S., Saxena, A., Roy, R., & Keshamma, E. (2020). Value Addition on Trend of Pneumonia Disease in India- The Current Update. *International Journal of TROPICAL DISEASE & Health*, 41(7), 1-11. <https://doi.org/10.9734/ijtdh/2020/v41i730291>

9. **Gupta, P. K.**, Rithu, B. S., Banu, K., Shruthi, A., & Sahana, C. (2020). SARS COV 2: Complete Review on Global Pandemic (Covid 19). *Asian Journal of Biology*, 9(1), 62-69.
<https://doi.org/10.9734/ajob/2020/v9i130078>
10. B S Rithu, **Praveen Kumar Gupta**, Kauser Banu, Shruti A, Sahana C. Improving Diagnosis of Breast Cancer Using Micro RNA as a Tool. *International Journal of Science, Engineering and Management (IJSEM)*. Vol 5, (5), May 2020. Page 15-22. ISSN: 2456-1304.
11. **PRAVEEN KUMAR GUPTA**, B S RITHU, KAUSER BANU, SHRUTHI A. MOLECULAR BASIS OF NEONATAL DIABETES MELLITUS . *International Journal of Research and Analytical Reviews (IJRAR)*, Volume 7, Issue 2, 762-770.
12. Narendra Kumar S., Lingayya Hiremath, Ajeeth Kumar S and **Praveen Kumar Gupta**. A FLEX SENSOR BASED GESTURE CONTROLLED WHEELCHAIR. *Int. J. Adv. Res.* 8(02), 1175-1177. ISSN: 2320-5407.
13. Megha S Shetty, **Praveen Kumar Gupta**, Shreya Choudhary, Narendra Kumar S, Lingayya Hiremath, Ajeet Kumar Srivastava, Keshamma E manuscript entitled "VALUE ADDITION ON THE CURRENT UPDATES OF EPIDERMOLYSIS BULLOSA" accepted in **Indian Journal of Public Health Research and Development**. Manuscript Ref No. 1001/IJPHRD/2020.
14. Pratheek Sharma, Harshit Beria, **Praveen Kumar Gupta**, Sumathra Manokaran, A.H. Manjunatha Reddy. Prevalence of hypertension and its associated risk factors. *J. Pharm. Sci. & Res.* Vol. 11(6), 2019, 2161-2167
15. S Narendra Kumar, Ajeet Kumar Srivastava, Lingayya Hiremath, Rithika Pravin Iyer, **Praveen Kumar Gupta**, Jyothsana R, Ruchika Pravin Iyer. Introduction to Hidden Markov Model and its Biological Applications. *International Journal of ChemTech Research*. Vol.12 No.03, pp 227-232, 2019.
16. **Narendra Kumar S***, Lingayya Hiremath, **Praveen Kumar Gupta**, Ajeet Kumar Srivastava, Akanksha Jain, Abhishek R Hegde, Hamsa L. Response Against T-2 Mycotoxin in *Oryctolagus cuniculus*. **Research Journal of Pharmacy and Technology**. *Research J. Pharm. and Tech.* 12(1): January 2019. Page : 237-240
17. **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
18. Narendra Kumar S, Mohammed Haseeb Nawaz, Shyam Shankar Mishra, Satya Suman, Lingayya Hiremath, **Praveen Kumar Gupta**, Ajeet Kumar Shrivastava and Mahesh M. ANTI - CANCER ENZYME(L - ASPARAGINASE) PRODUCTION, PURIFICATION AND CHARACTERIZATION FROM A SOIL ISOLATE OF PSEUDOMONAS SP. *International Journal of Advanced Research*. *Int. J. Adv. Res.* 7(12), 753-761. DOI <http://dx.doi.org/10.21474/IJAR01/10205>.
19. Lingayya Hiremath, Narendra Kumar S., **Praveen Kumar Gupta**, Ajeet Kumar Srivastava, Shreya Choudhary, Suresh R.and Keshamma E., Synthesis, Characterization of TiO₂ Doped Nanofibres and Investigation on their Antimicrobial Property, *J Pure Appl Microbiol.*, 2019; 13(4): doi: 10.22207/JPAM.13.4.
20. **Praveen Kumar Gupta**, Kandi Arvind Reddy, Anwesha Sinha, Sneha B, Joyce Paleti and Anushree Vinayak Lokur. Production and optimization of L-citrulline by using watermelon peels. Published in *Journal of Pharmacognosy and Phytochemistry* 2019; 8(4): 3231-3237. E-ISSN: 2278-4136.
21. **Praveen Kumar Gupta**, B S Rithu, Shruthi A, Anushree Vinayak Lokur, Raksha.M. **Phytochemical screening and qualitative analysis of Cymbopogon citratus**. Published in *Journal of Pharmacognosy and Phytochemistry*. 2019; 8(4): 3231-3237. E-ISSN: 2278-4136

22. **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 . *American Journal of Microbiological Research*. **2018**. Vol. 6, No. 4, 115-123. DOI:10.12691/ajmr-6-4-1
23. **Praveen Kumar Gupta***, Sachi Mehra, Vandana T, Priyadharsini V. Manuscript entitled on **FOURIER TRANSFORM INFRARED SPECTROSCOPIC ANALYSIS OF EXTRACTED FRUCTOOLIGOSACCHARIDES FROM ORGANIC WASTE**. Accepted in Indian Journal of Advances in Chemical Science (Manuscript Number): IJACS-2018-07-024.
24. **Praveen Kumar Gupta***, Sachi Mehra, Vandana T, Anwesha Sinha, Kandi Arvind Reddy, Lingayya. THIN LAYER CHROMATOGRAPHIC ANALYSIS OF EXTRACTED FRUCTOOLIGOSACCHARIDES FROM ORGANIC WASTE in International Journal of Fundamental & Applied Sciences. Int. J. Fund. Appl. Sci. Vol. 7, No. 4(2018) 10-12. ISSN 2278-1404.
25. Lingayya Hiremath* **Praveen Kumar Gupta**, Narendra Kumar S, Ajeeth Kumar Srivastava, Narayan A V, Sindhu Rajendran, Ravi K M, Mahadevi Narasanagi and Sukanya P. “Functionalized Cellulose Nanofiber –Composite Membranes for Waste water Treatment -a Review” in Journal of Nanotechnology and Materials Science. Vol 5:1 pp35/43
26. Praveen Kumar Gupta. Manuscript entitled on “Effect of Sustained Action Drug Delivery System using Cellulose Beads Infused with Xylooligosaccharides” accepted for publication in International Journal of Applied Engineering Research. 2017.
27. Ajeet Kumar Srivastava1, A V Narayan, Narendra Kumar S, Lingayya Hiremath and Praveen Kumar Gupta. GREEN LIQUOR PRETREATMENT FOR THE ENHANCEMENT OF ENZYMATIC SACCHARIFICATION OF RICE HUSK FOR ETHANOL PRODUCTION. Int. J. Adv. Res. 5(10), 139-143. Article DOI: 10.21474/IJAR01/5515. DOI URL: <http://dx.doi.org/10.21474/IJAR01/5515>
28. Narendra Kumar S, Lingayya Hiremath, Aishwarya Bhat, Praveen Kumar Gupta, Ajeeth Kumar Srivatsava, Yashaswini R Bhat and Srujana S Ramaswamy. CONCENTRATION OF LEAD AND CADMIUM IN COMMON VEGETABLES CONSUMED BANGALORE AND THE HEALTH EFFECTS. *Int. J. Adv. Res.* 5(9), 979-982. DOI URL: [http:// dx.doi.org/10.21474/IJAR01/5412](http://dx.doi.org/10.21474/IJAR01/5412).
29. Ajeet Kumar Srivastava, A V Narayan, Praveen Kumar Gupta, Lingayya Hiremath,, Narendra Kumar S. Solvent-based Delignification of Rice straw for Efficient Enzymatic Hydrolysis of Cellulose and Bioethanol Production. International Journal of Innovative Research in Science, Engineering and Technology. Vol. 6, Issue 8, August 2017. DOI:10.15680/IJRSET.2016.0608181.
30. Praveen Kumar Gupta*, Lingayya Hiremath, S Narendra Kumar, Ajeet Kumar Srivastava, Navyashri Shankarnarayan, Vidyashree S, Simran A Singh. Nanotechnology Based Sustained Action Drug Delivery System - A Review, manuscript accepted in European Journal of Biotechnology and Bioscience
31. **Praveen Kumar Gupta**, Pushpa Agrawal, Prabha Hegde. “**Value addition of orange peels in the enzymatic production of xylooligosaccharides**”. African Journal of Biotechnology. Vol. 16(24), pp. 1324-1330, 14 June, 2017.
32. Hegde P.*, Agrawal P. and **Gupta P. K.** POLYPHENOLS - A USEFUL BIOMATERIAL : A REVIEW Journal of Environmental Research And Development. Vol.10 No. 03, January-March 2016. Page 547-554
33. **Gupta P. K.*** , Agrawal P., Hegde P., Shankarnarayan N., Vidyashree S., Singh S. A. and Ahuja S. XYLOOLIGOSACCHARIDE - A VALUABLE MATERIAL FROM WASTE TO TASTE : A REVIEW. Journal of Environmental Research And Development. Vol.10 No. 03, January-March 2016. Page 555-563.

34. **Praveen Kumar Gupta**, Ullhas Kaarthi. M, Saranya G, Vidyashree.S, Aayush S; EFFECT OF GRAPE EXTRACT ON GROWTH OF YEAST AND BACTERIA. International Journal of Advance Research in Engineering, Science & Technology(IJAREST). Volume 2, Issue 5, May- 2015.
35. **Praveen Kumar Gupta**, Pushpa Agrawal, Prabha Hegde; Extraction of Xylooligosaccharides by using *Aspergillus niger* from orange wastes. International Journal of PharmTech Research. Vol.7, No.3, pp 488-496,
36. Aiyer Harini P; Ashok Kumar HG; **Gupta Praveen Kumar** and Shivakumar Neeta, An Overview of Immunologic Adjuvants - A Review, J Vaccines Vaccin 4: 167. doi:10.4172/2157-7560.1000167.
37. Neeta Shivakumar, Pushpa Agrawal, **Praveen kumar Gupta** Green Pharmacy: An Alternative And Complementary Medicine. in International Journal of Pharmaceutical Sciences and Research Vol. 4, Issue 02; page 574-580
38. Anvita Gupta, Sobha M Rani, Pushpa Agarwal, **Praveen Kumar Gupta**, Sero-Prevalence of Paratuberculosis (Johne's Disease) in Cattle Population of South-Western Bangalore Using ELISA Kit, Open Journal of Veterinary Medicine – Scientific Research, Vol -2 2012, issue – Scientific Research , page – 196-200.
39. **Gupta Praveen Kumar**, Agarwal Pushpa, Hegde Prabha, A Review on Xylooligosaccharides, International Research Journal of Pharmacy. Vol- 3(8) 2012, page -71-74.
40. Anila Rani, Choudary G V, Mahesh, Narendra Kumar S, Nagashree N Rao, **Praveen Kumar Gupta**, Rajeshwari M, Production of Penicillin Acyclase Using Mutant *Escherichia Coli* Strain, International Journal of Bio-Engineering, Science and Technology, Vol-03 2012, issue 01, page 122-124.
41. **Gupta Praveen K**, Rajeswari M, Agarwal Pushpa, Narendra Kumar S, Anila Rani P, Isothermal Kinetic And Thermodynamic Studies On Basic Dyes sorption Using Rice Husk Carbon, International Journal of Atoms and Molecules, Vol- 2(2) 2012, page-139-148
42. Sahu G, **Gupta PK**, A review on Bauhinia Variegata Linn International Research Journal of Pharmacy. Vol- 3(1) 2012
43. **Gupta Praveen kumar**, Agrawal Pushpa, Shivakumar Neeta and Hiremath Suhasini.,B *In Silico* modelling and drug design – A Review International Research Journal of Pharmacy. Vol- 2(9) 2011, page -15-17.

FDP/Workshops/ Seminars/ Symposium attended/Organized:

1. Organized student industrial trip to attend **National Symposium on “Technology and Innovations its Interface with IPR”** held on 28th Jan 2020 at **Indian Institute of Science (Satish Dhavan Auditorium)** Bangalore-12.
2. An expert lecture organized **entitled “Patent Drafting: Techniques and Tricks”** by **Mr Somashekar Ramakrishana, Senior Partner, Banana IP, Bangalore** through Webinar held on 20th Jan 2020 at RV College of Engineering, Bangalore-59.
3. Chaired a Technical session for BIORUJIVITH INTERNATIONAL CONFERENCE 2019 at Garden City University Bangalore during the date 19th-20th Sep 2019.
4. Organized the two days Training Program on **“Intellectual Property Rights and Innovations with Special Focus on Prior Art Search”** held on 13th-14th Sep 2019 at RVCE in collaboration with Karnataka State Science and Technology (KSCST, IISC Campus).
5. Organized Industry-Institute Talk on **“Demo Workshop on Liquid Chromatography-Mass Spectrometry”** held on 25/08/2018, RVCE Bengaluru.
6. Organized and participated in three day’s workshop on **“Design of Effluent Treatment Plants for Biochemical Industries”** held on 2nd to 4th March 2017 Technical Education Quality Improvement

Program (TEQIP-II Initiative) R.V College of Engineering Bangalore with industrial partner M/s K-Pack Systems (P) Ltd.

7. Organized and participated in three day's international conference on Smart Engineering Materials, ICSEM-2016 held on 20th to 22nd Oct 2016 Technical Education Quality Improvement Program (TEQIP-II Initiative) at R.V College of Engineering Bangalore.
8. Organized and participated in three day 7th International congress of Environmental Research during 26th to 28th Dec 14, on Topic **"Extraction of Xylooligosaccharides from Orange wastes."** at RVCE campus.

Books/ Book Chapter Publication:

1. A book entitled on **"Details of Phytochemicals from Eucalyptus Spp and Marigold"** authored by **Praveen Kumar Gupta**. Publisher-Lap Lambert Academic Publishing House-Mauritius. ISBN:978-613-9-92401-1. Year 2018.
2. **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**.
3. **Praveen Kumar Gupta, Shreeya Sai Raghunath, Deepali Venkatesh Prasanna, V Priyadharsini, Vidhya Shree, Chandrananthi C, Shreya Choudhary, Krithika S and Keerthana G**. Chapter entitled on An update on Overview of Cellulose, its Structure and Applications **Published in book**. Cellulose By Intakeopen (ISBN 978-953-51-6832-4)
4. **Praveen Kumar Gupta, Nividha Bhandari, Hardik N. Shah, Vartika Khanchandani, R. Keerthana and Vidhyavathy Nagarajan**. Chapter entitled on "An Update on Nanoemulsions Using Nanosized Liquid in Liquid Colloidal Systems" **Published in book, " Nanoemulsions - Properties, Fabrications and Applications"** By Intakeopen. ISBN 978-1-78984-176-3. DOI: <http://dx.doi.org/10.5772/intechopen.84442>
5. 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
6. Praveen Kumar Gupta*, Shreya Choudhary, Chandrananthi C, Chapter entitled on **"Fungal biodiversity producing xylanase enzymes involved in efficient uses of Xylanolysis"** **accepted for the upcoming book, "Mycodegradation of Lignocelluloses"** By Springer. ISBN: 978-3-030-23833-9
7. Praveen Kumar Gupta*, Shreya Choudhary, Chandrananthi C, chapter entitled on **"Fungal biodiversity producing cellulase involved in efficient cellulolysis"** **accepted for the upcoming book, "Mycodegradation of Lignocelluloses"** By Springer ISBN: 978-3-030-23833-9
8. **Praveen Kumar Gupta*, Anwesha Sinha, Kandi Arvind Reddy** Manuscript entitled on **"MANAGEMENT OF PLANT DISEASES – BY USING OF HOST RESISTANCE MECHANISM diseases"** **in an upcoming book entitled on "MODERN TRENDS IN AGRICULTURE"**. By Scire Science Publications Cochin, Kerala, India.
9. Praveen Kumar Gupta, Yuvashankar K.J, Saketh Vishnu B.O, Arvind Reddy Kandi, Anwesha Sinha, Vidhyavathy Nagarajan, Vartika Khanchandani. chapter entitled on "Impact of Plant-Microbe Interactions on Plant Metabolism Under Saline Environment", in the upcoming book "Salt Stress, Microbes, and Plant Interactions: Causes and Solution" By Springer ISBN: 978-981-13-8800-2.

10. Praveen Kumar Gupta, Deepali Venkatesh Prasanna, Shreeya Sai Raghunath. Manuscript entitled on "How Artificial Intelligence Can Undermine Security - An Overview of the Intellectual Property Rights and Legal Problems Involved" accepted for the upcoming book in EAI/Springer Innovations in Communications and Computing Book series Applications in Ubiquitous Computing by Springer.
11. Praveen Kumar Gupta, Preshita Sanjay Dave, Swathi Giridhar, Abijith Trichur Ramachandran, Anusha Mysore Keerthi, Shweta Sudam Kallapur, Achisha Saikia. Manuscript entitled on "APPLICATIONS IN UBIQUITOUS COMPUTING" accepted for the upcoming book in EAI/Springer Innovations in Communications and Computing Book series Applications in Ubiquitous Computing by Springer.
12. Rhutu Kallur, Sindhu Rajendran, Praveen Kumar Gupta, Ryna Shireen Sheriff and Reshma R. Manuscript entitled on "Value addition on the uses of artificial intelligence in the development of Nanosized Biomaterials" accepted for the upcoming book Handbook of Artificial Intelligence in Biomedical Engineering by Apple Academic Press,USA.
13. 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**
14. 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.**
15. **Praveen Kumar Gupta**, Yuvasankar K.J, Saketh Vishnu B.O, Arvind Reddy Kandi, Anwasha Sinha, Vidhyavathy Nagarajan, Vartika Khanchandani. chapter entitled on "Impact of Plant-Microbe Interactions on Plant Metabolism Under Saline Environment", in the book "Salt Stress, Microbes, and Plant Interactions: Causes and Solution" By Springer ISBN: 978-981-13-8800-2.
16. Praveen Kumar Gupta, Preshita Sanjay Dave, Swathi Giridhar, Abijith Trichur Ramachandran, Anusha Mysore Keerthi, Shweta Sudam Kallapur, Achisha Saikia. R. Kumar, S. Paiva (eds.), Applications in Ubiquitous Computing, EAI/Springer Innovations in Communication and Computing, https://doi.org/10.1007/978-3-030-35280-6_5
17. Rhutu Kallur, Sindhu Rajendran, **Praveen Kumar Gupta**, Ryna Shireen Sheriff and Reshma R. A Chapter entitled on "Artificial Intelligence Applications in Nanosized Biomaterial Development" in a book "Recent Trends in Image and Signal Processing in Computer Vision of Algorithms for Intelligent Systems (AIS)" Volume 1124 by Springer 2020, SSN 2194-5357 ISSN 2194-5365 (electronic) Advances in Intelligent Systems and Computing ISBN 978-981-15-2739-5 ISBN 978-981-15-2740-1 (eBook). <https://doi.org/10.1007/978-981-15-2740-1>
18. CH. Renumadhavi , Jamuna N ,Chandana A N , Vinay Balamurali , **Praveen Kumar Gupta** , Ryna Shireen Sheriff , Anushree Vinayak Lokur , Rhutu Kallur, Sindhu R . Chapter "Microcontroller based detection of Diabetes and Ketosis State using Breath Sensors" Published in a book "Recent Trends in Image and Signal Processing in Computer Vision of Algorithms for Intelligent Systems (AIS)" Volume 1124 by Springer 2020, SSN 2194-5357 ISSN 2194-5365 (electronic) Advances in Intelligent Systems and Computing ISBN 978-981-15-2739-5 ISBN 978-981-15-2740-1 (eBook). <https://doi.org/10.1007/978-981-15-2740-1>
19. Sindhu Rajendran , Varsha Kulkarni, Surabhi Chaudhari , **Praveen Kumar Gupta**, Chapter entitled "An update on medical data Steganography and encryption" has been provisionally accepted for the

published in a book “Recent Trends in Image and Signal Processing in Computer Vision of Algorithms for Intelligent Systems (AIS)” Volume 1124 by Springer 2020, SSN 2194-5357 ISSN 2194-5365 (electronic) Advances in Intelligent Systems and Computing ISBN 978-981-15-2739-5 ISBN 978-981-15-2740-1 (eBook). <https://doi.org/10.1007/978-981-15-2740-1>

20. Lingayya Hiremath, Ajeet Kumar Srivastava, Narendra Kumar S., **Praveen Kumar Gupta** and Raksha M. Current prominence of Vesicular-Arbuscular Mycorrhizal (VAM) Fungi for agriculture crop investment published in book Innovations in Biochemical Techniques. Daya Publishing House® A Division of Astral International Pvt. Ltd. New Delhi – 110 002. ISBN: 978-93-89605-25-9 (HB). Page no. 125-137
21. **Praveen Kumar Gupta**, Anushree Vinayak Lokur, Ryna Shireen Sheriff, Manjunath Reddy. paper # 19RTISPC010 entitled “ARTIFICIAL INTELLIGENCE IN CANCER IMAGING” has been provisionally accepted for the publication in a book chapter in Recent Trends in Image and Signal Processing in Computer Vision of Algorithms for Intelligent Systems (AIS) by Springer.
22. Keerthi A.M., Ramapriya S., Kashyap S.B., **Gupta P.K.**, Rekha B.S. (2021) Pharmaceutical Management Information Systems: A Sustainable Computing Paradigm in the Pharmaceutical Industry and Public Health Management. In: Ahad M., Paiva S., Zafar S. (eds) Sustainable and Energy Efficient Computing Paradigms for Society. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-030-51070-1_2
23. **Gupta P.K.**, Nawaz M.H., Mishra S.S., Parappa K., Silla A., Hanumegowda R. (2021) New Age Approaches to Predictive Healthcare Using In Silico Drug Design and Internet of Things (IoT). In: Ahad M., Paiva S., Zafar S. (eds) Sustainable and Energy Efficient Computing Paradigms for Society. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-030-51070-1_8.
24. Vidya M.J., Padmaja K.V., Joshi R.K., Veena Divya K., Rajasree P.M., **Gupta P.K.** (2021) A Novel Authentication Approach Towards Secured Storage of Electronic Patient Record Using 3D Dynamic Order Template. In: Ahad M., Paiva S., Zafar S. (eds) Sustainable and Energy Efficient Computing Paradigms for Society. EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-030-51070-1_9
25. **Praveen Kumar Gupta**, Anusha Mysore Keerthi, Shweta Sudam Kallapur, Shreya Choudhary, Overview of Cellulose Types and Applications, Reference Module in Chemistry, Molecular Sciences and Chemical Engineering, Elsevier, 2020, ISBN 9780124095472, <https://doi.org/10.1016/B978-0-12-819475-1.00019-5>. (<http://www.sciencedirect.com/science/article/pii/B9780128194751000195>)
26. Suresh D., Chaudhari S., Saxena A., Gupta P.K. (2021) Telemedicine and Telehealth: The Current Update. In: Manocha A.K., Jain S., Singh M., Paul S. (eds) Computational Intelligence in Healthcare. Health Information Science. Springer, Cham. https://doi.org/10.1007/978-3-030-68723-6_4.
27. Praveen Kumar Gupta, Apoorva Saxena, Brahmanand Dattaprakash, Ryna Shireen Sheriff, Surabhi Hitendra Chaudhari, Varun Ullanat, V. Chayapathy. Applications of Artificial Intelligence in Environmental Science. Artificial Intelligence (AI): Recent Trends and Applications. CRC Press © 2021 Taylor & Francis Group, LLC ISBN 9780367431365 (hardback) | ISBN 9781003005629 <https://doi.org/10.1201/9781003005629>
28. Prashant Abbi, Khushi Arora, Praveen Kumar Gupta, K.B. Ashwini, V. Chayapathy, M.J. Vidya, Analysis and Clustering of Sensor Recorded Data to Determine Sensors Consuming the Least Energy. By Wiley Published Online: 04 February 2022 Published Print: 18 April 2022. Online ISBN: 9781119682554 Print ISBN: 9781119682509 <https://doi.org/10.1002/9781119682554.ch1>

Interaction with outside world:

1. Collaboration with Prabha Hegde working in 3M Pvt Ltd for paper publication and research work
2. MOU- with Satva Healthcare System Pvt Ltd, Bangalore.
3. Interaction related to research work on prebiotics with Dr A K Samantha working in National Institute of Animal Nutrition and Physiology Bangalore.

Awards:

1. Received honorary certificate for obtaining Doctoral Degree from Visvesvaraya Technological University, Belagavi during the academic year 2017-18 in teachers Day Celebration award ceremony on 22nd Sep 2018 by ISTE-RVCE Chapter.
2. Received honorary certificate for outstanding contribution in reviewing awarded in Nov 2016 by Brazilian Journal of Microbiology, Elsevier society Netherland.
3. Received honorary certificate for obtaining Doctoral Degree from Visvesvaraya Technological University, Belagavi during the academic year 2017-18 in teachers Day Celebration award ceremony on 22nd Sep 2018 by ISTE-RVCE Chapter.
4. Received honorary certificate for outstanding contribution in reviewing awarded in Nov 2016 by Brazilian Journal of Microbiology, Elsevier society Netherland.

Funded Projects:

1. Royalty amount received for Startup pitched up in Amazon Web Services (AWS) for 1000 \$USD + 5000 \$USD Business Support in the name of Biospacestartups Account Id: 845005033711 Application Reference No. X9LOIC82 from BIREC-C CAMP Bangalore.
2. Royalty amount received for Startup pitched up in Amazon Web Services (AWS) for 1000 \$USD + 5000 \$USD Business Support in the name of Cellulosestartups Account Id: 901743204839 Application Reference No. WJVKBLTX from BIREC-C CAMP Bangalore.
3. **Project Duration 01.08.2017-31.07.2019.** KARNATAKA COUNCIL FOR TECHNOLOGICAL UPGRADATION (KCTU) Bangalore amount 55 Lakhs to carry out project entitled on “ Waste to clean Energy” 2017, Ref No. (KCTU/R&D/RV-WCE/2017-18/160.
4. **Project Duration 01.01.2017-31.12.2018. TEQIP 1.2.1 CoE-CME Center of Excellence amount 65000 Rs to carry out project entitled on “Detection of Acetonitrile by Using Biosensor” 2017, Ref No- RVCE/TEQIP-COE/347/16-17.**
5. **Project Duration 01.08.2017-31.07.2019 - KARNATAKA COUNCIL FOR TECHNOLOGICAL UPGRADATION (KCTU) Funded Project (55 Lakhs) entitled on “Waste to Clean Energy” Ref No: KCTU/RV-WCE/2017-18/160.**
6. **Project Duration 01.01.2017-31.12.2018 - TEQIP 1.2.1 CoE-CME Center of Excellence amount 65000 Rs to carry out project entitled on “Detection of Acetonitrile by Using Biosensor” 2017, Ref No- RVCE/TEQIP-COE/347/16-17.**
7. The MOU formed between **R.V. College of Engineering at Bangalore and Satva Health Solutions vt. Ltd** Rajajinagar 1st Block, Bengaluru - 560 010 in June 2017.

Patents:

1. **A Patent Granted for invention titled: METHOD AND SYSTEM FOR PRODUCING XYLOOLIGOSACCHARIDES FROM DRIED ORANGE PEELS, by the Indian Patent Office. Patent Number- 398942.**

2. **A Patent Granted for invention titled: PROCESS OF PRODUCTION OF XYLOOLIGOSACCHARIDES FROM PEELS OF ORANGE FRUITS, by the UK Patent Office. Patent Number- GB2612082**