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**Name:** Dr. K. Anuradha

**Department:** Microbiology

**Designation:** Assistant Professor, Head, Department of Microbiology

**Qualifications:** M.Sc (Microbiology), SLET, PhD (Microbiology)

Teaching Experience: 26 years

**Academic Positions:** Head Department of Microbiology (2005 to till date)  
Chairman, Board of Studies, Department of Microbiology, BVC  
Coordinator, DBT- STAR College Scheme, BVC  
Academic council member, BVC  
Research cell Coordinator, BVC  
Steering committee member, BVC  
Admission Committee member, BVC  
Planning and Development Cell member, BVC  
NAAC Criteria 3 in charge, BVC

**Area of Interest:** Medical Microbiology  
Microbial technology  
Microbial biodiversity  
Nano biotechnology  
Bioinformatics  
Virology and Immunology

**Research projects undertaken/ongoing:**

**U.G. C Minor research project** entitled “Studies on Microbial pectinases for fruit juice clarification” with an amount of Rs 3, 35,000/ for a period of two years 2015-17.

## Research Guidance:

Recognized as research supervisor by Department of Microbiology, Osmania University.  
Presently Four students are working for Ph. D.

## Research Publications: 19

1. Kumari, S. C., Selvakumar, V., Naga Padma, P., & Anuradha, K. (2021). Optimization Studies on Green Synthesis of Silver Nanoparticles from different Plant Extracts Using Taguchi Design. *Indian Journal of Science and Technology*, 14(38), 2888-2898.
2. Kumari, S. C., Padma, P. N., & Anuradha, K. (2021). Green Silver Nanoparticles Embedded in Cellulosic Network for Fresh Food Packaging. *Journal of Pure and Applied Microbiology*, 15(3), 1236-1245.
3. Aparna, Y., **Anuradha, K.**, Jyothi, C., Manjari, K. S., & Challa, A. K. (2020). Bringing Real-World Microbiology Experiences to Undergraduate Students in Resource-Limited Environments. *Frontiers in microbiology*, 11.
4. Krishna, G. S., Devi, S. S., & **Anuradha, K.** (2020). Siderophore production by indigenous bacillus isolate and its role in growth of *cicer arietinum*. *Plant archives*, 20, 2605-2608
5. Singh, T. D., Sravani, P., Bhattar, S. S., & **Anuradha, K.** (2019). Green synthesis of iron, copper and silver nanoparticles and their antibacterial activity on animal pathogens—A Comparative study. *International journal of Scientific Research in Biological sciences*. 6(6), 19-24.
6. Esha, M. K., & **Anuradha, K.** Comparative study of “Commercially available mouthwashes with that of herbal mouthwashes” on pre-dominant oral cavity flora-Streptococcus species. *International journal of Scientific Research in Biological sciences*. 6(1), 25-30
7. Yash, S, Padma P & **Anuradha, K** (2019). Azo dye degradation by bacterial laccases produced from mushroom spent. *International journal of Scientific Research in Biological sciences*. 6(1), 31-40.
8. **Anuradha, K** & Sarada, J (2018). Citations and h index as key indicators of quality research. *New Man International Journal of multidisciplinary studies*, 5, 2-15.
9. Guttikonda, S. T. K., Vanitha, S., & **Anuradha, K.** (2017). Screening of inulinase producing bacteria from diverse sources. *Biosci. Discov.*, 8(4), 695-701.
10. Padma, P. N., **Anuradha, K.** (2017). 16sRNA sequencing and phylogenetic analysis of potential pectinolytic bacillus sp. Isolated from vegetable waste dump yard soils.

*International Journal of Advance Research in Science and Technology*, 6(1), 267-270.

11. Padma, P. N., Sravani, P., Mishra, P., Sneha, N., & **Anuradha, K.** (2017). Synergistic effect of multiple enzymes on apple juice clarification. *Indian J. Sci. Technol*, 10(10), 1-5.
12. **Anuradha, K.**, Padma, P. N., Venkateshwar, S., & Reddy, G. (2016). Mango juice clarification with polygalacturonase produced by *Aspergillus awamori* MTCC 9166- Optimization of conditions. *International Food Research Journal*, 23(1), 147.
13. Padma, P. N., **Anuradha, K.**, & Divya, K. (2015). Comparison of potency of antifungal action of dandruff shampoos and different plant extracts. *International Journal of Medical Research & Health Sciences*, 4(2), 327-331.
14. Padma, P. N., & **Anuradha, K.** (2015). Bacterial Isolates for Polygalacturonase Production from Diverse Sources. *International journal of Scientific Progress and Research*, 10, 110 -113
15. Ramakanth, N. V., **Anuradha, K.**, & Padma, P. N. (2014). Alkaline Polygalacturonases from Thermotolerant Pectinolytic Bacteria from Diverse Sources. *International Journal of Scientific and Research publications*, 4(5), 1-3.
16. **Anuradha, K.**, Padma, P. N., Venkateshwar, S., & Reddy, G. (2014). Effect of physical factors on pellet morphology of *Aspergillus awamori* MTCC 9166 and polygalacturonase production. *Biocatalysis and Agricultural Biotechnology*, 3(4), 271-274.
17. **Anuradha, K.**, Padma, P. N., Venkateshwar, S., & Reddy, G. (2014). Selection of nutrients for polygalacturonase production by *Aspergillus awamori* MTCC 9166 using Plackett-Burman design. *Indian Journal of Biotechnology*, 13, 502-507
18. Butti, S. K., Amrithesh Kumar, A., Madhuri, S., Selva Kumar, V., Aparna, Y., & **Anuradha, K.** (2012). Prevalance of Thyroiditis among the population of Hyderabad and Secunderabad regions-A survey report. *Indian Journal of Medicine and Healthcare*, 1(7).
19. Padma, P. N., **Anuradha, K.**, Nagaraju, B., Kumar, V. S., & Reddy, G. (2012). Use of pectin rich fruit wastes for polygalacturonase production by *Aspergillus awamori* MTCC 9166 in solid state fermentation. *Journal of Bioprocessing and Biotechniques*, 2(2).
20. Padma, P. N., **Anuradha, K.**, & Reddy, G. (2011). Pectinolytic yeast isolates for cold-active polygalacturonase production. *Innovative Food Science & Emerging Technologies*, 12(2), 178-181.

21. **Anuradha, K.**, Padma, P. N., Venkateshwar, S., & Reddy, G. (2010). Fungal isolates from natural pectic substrates for polygalacturonase and multienzyme production. *Indian journal of microbiology*, 50(3), 339-344.

#### **Patents Published:**

Method of processing dextran for handmade paper. (Application No: 202141052150A)

#### **Book Chapters/Book Publications**

1. Aparna, Y., Anuradha, K., Anju, S., & Sarada, J. (2021). A Systematic Review on Crosstalk Between Microbiome and Immune System. *Microbiome in Human Health and Disease*, 35-51.
2. Sarada, J., Anju, S., Aparna, Y., & Anuradha, K. (2021). Microbiome Therapeutics: Emerging Concepts and Challenges. In *Microbiome in Human Health and Disease* (pp. 217-238). Springer, Singapore.
3. Anju, S., Aparna, Y., Anuradha, K., Bramhachari, P. V., & Sarada, J. (2021). Intestinal Microbiome–Macromolecule Signaling That Mediates Inflammation and Immune System Interaction. In *Microbiome in Human Health and Disease* (pp. 145-156). Springer, Singapore.
4. Text book of Biotechnology for B.Sc I Year common core syllabus – Maruthi publications.
5. Text book of Microbiology for B.Sc II Year common core syllabus -- Telugu Academy

#### **Research papers presented:**

1. Meraz Fatima and **K. Anuradha**, Studies on bacterial isolates of river shores and soils of forest for pigment production-International E-Conference on Applied biosciences for sustainable development,( 3- 4<sup>th</sup> September 2021).
2. Sneha G, P.L Soujanya and **K. Anuradha**, Microbial analysis of coconut water and its nutritional impact on microbial growth-International e conference on Advances in Microbial biotechnology and Biotherapeutics (AMTB-2020),Osmania University in association with CMFT and AMI Hyderabad chapter, (10-12<sup>th</sup> September, 2020).

3. Meraz Fatima and **K. Anuradha**, Studies on microbial non toxic pigments as food colorants-International e conference on Advances in Microbial biotechnology and Biotherapeutics (AMTB-2020), Osmania University in association with CMFT and AMI Hyderabad chapter, (10-12<sup>th</sup> September, 2020).
4. Vanitha S and **K. Anuradha** Characterization of Inulinase produced from *Bacillus tequilensis* using Low Cost Substrates-International e conference on Advances in Microbial biotechnology and Biotherapeutics (AMTB-2020), Osmania University association with CMFT and AMI Hyderabad chapter, (10-12<sup>th</sup> September, 2020).
5. Singh, T. D., Sravani, P., Bhattar, S. S., & **Anuradha, K**, Green synthesis of iron, copper and silver nanoparticles and their antibacterial activity on animal pathogens—A Comparative study- Two day National seminar on Innovations in Nanobiotechnology , Departmens of Microbiology & Biochemistry, BVC,Hyderabad, ( 27<sup>th</sup>& 28<sup>th</sup> February, 2019).
6. Esha, M. K., & **Anuradha**, Comparative study of Commercially available mouthwashes with that of herbal mouthwashes” on pre-dominant oral cavity flora- Streptococcus species-Two day National seminar on Innovations in Nanobiotechnology, Departmens of Microbiology & Biochemistry, BVC,Hyderabad, ( 27<sup>th</sup>& 28<sup>th</sup> February, 2019).
7. Yash, S, Padma P & **Anuradha, K** presented on paper on Azo dye degradation by bacterial laccases produced from mushroom spent- Two day National seminar on Innovations in Nanobiotechnology, Departmens of Microbiology & Biochemistry, BVC,Hyderabad, (27<sup>th</sup>& 28<sup>th</sup> February ,2019).
8. Sai Krishna, S. Shalini Devi and **K. Anuradha**, Screening of siderophore producing bacteria from dumpyard soils and rhizospheric soils-International conference on Bioengineering on health and environment ,organized by Department of Biotechnology ,Sathyabhama University , (8<sup>th</sup> -10<sup>th</sup> January, 2018).
9. J.Sarada and **K. Anuradha**, Citations and h index as key indicators of quality research- National Seminar on Revised NAAC Frame work : The road ahead towards excellence in quality education,organized by Bhavan’s Vivekananda college, (21st April, 2018).
10. P.Naga Padma and **K. Anuradha**,16sRNA sequencing and phylogenetic analysis of potential pectinolytic bacillus sp. Isolated from vegetable waste dump yard soils-Two day national seminar on Internet of Things-Applications and Security” organized by Departemnt of Computer Science, Bhavan’s Vivekananda College (7th, 8th, September , 2017).
11. Gayatri L, SasiRekhaB, P.Naga Padma and **K. Anuradha**, Mango Juice Clarification using polygalacturonase produced by Bacillus sps-Two day National conference Frontiers

in Microbial Biotechnology, Department of Microbiology, Osmania University, (22nd & 23rd February, 2017).

12. Gayatri, P.Naga Padma and **K. Anuradha**, Studies on cross linked enzyme aggregates of polygalacturonase produced by *Bacillus sps*- Two day National seminar on Advances in Bioprocess engineering – practical approach for Today’s bioprocess challenges, Departments of Biotechnology & Microbiology, Kasturiba Gandhi degree and P.G College ,Hyderabad, (24<sup>th</sup> and 25<sup>th</sup> November, 2016).
13. Tharun and K. Anuradha, Studies on enzymatic clarification of cucumismelojuice- Two day National Seminar on Recent advances in food biotechnology, Microbiology & biochemistry Departments, BVC, (7th and 18th February, 2016).
14. Sravani and **K.Anuradha**, Viscometric studies for enzymatic clarification of apple juice- Two day National Seminar on Recent advances in food biotechnology, Microbiology & biochemistry Departments,BVC, (17th and 18th February, 2016).
15. Meghana nd **K.Anuradha**, Screening of inulinase producing bacteria from diverse sources - Two day National Seminar on Recent advances in food biotechnology, Microbiology & biochemistry Departments ,BVC, (7th and 18th February,2016).
16. Sangeeta, P. Naga Padma and K. Anuradha, Clarification of various fruit and vegetable juices using polygalctouronase produced by *bacillus sp*- National Seminar on recent trends in Microbial Biotechnology, Department of Microbiology, Osmania University, Hyderabad (26<sup>th</sup> -28<sup>th</sup> February, 2015).

#### **Workshops/ Refresher courses /Training programs Attended:**

- International FDP on Recent trends in transforming life sciences organized by Nizam college, Govt city college & Loyola Academy held on 13-18 Sep 2021
- FDP on Basics of Bio-informatics organized by E&ICT, NIT Warangal, Anna University held on 26 May-4 June 2021.
- FDP on useful online resources for Virtual class rooms organized by St. Francis College for women held on 10 th June 2020.
- Seven days National level on line workshop on Applied life Sciences organized by Department of Microbiology, Nizam College, Osmania University on 24<sup>th</sup> and 25<sup>th</sup> July 2020.
- Outcome Based Education & Online Course Design, Development and Delivery organized by Department of Education and Education Technology, School of Social Sciences & School of Management Studies, University of Hyderabad during 16<sup>th</sup> to 18<sup>th</sup> May, 2020.
- Online international workshop on Student Centric Learning Strategies held on 2<sup>nd</sup> to 11<sup>th</sup> November 2020.

- ICT enabled teaching and learning organized by MHRD-teaching learning centre, Ramanujan college, University of Delhi and Jankidevi memorial college, University of Delhi held on Sep7th – 13th 2020.
- FOUR day STEM teacher Training Program/ Workshop on RBPT organized by IISER Pune at PRSU, Raipur held on 6-9th October 2017.

#### **Seminars /Conferences-Organized:**

- **Coordinator**- National level five day Faculty Development Program on “Recent technological advancements in Life Sciences” held on 15th - 19th November, 2021
- **Co convenor** - National Seminar “Eco-friendly strategies for Sustainable Environment held on 28th and 29th February, 2020.
- **Convenor** -Two day national seminar on Innovation in Nanobiotechnology held on 27th and 28th February, 2019.
- **Coordinator**- National Science Day-2018, 2019 and 2020, BVC.
- **Convenor**-National seminar- Recent trends and Advances in Food Biotechnology held on 16<sup>th</sup>& 17<sup>th</sup> February 2016.
- **Co convenor**-Two day National symposium on Immunology-A voyage from serology to Molecular biology held on 16<sup>th</sup>& 17<sup>th</sup> February 2012
- **Co convenor**-National seminar - Emerging trends in Science held on 21<sup>st</sup>-22<sup>nd</sup> October 2010.

#### **Awards/ Recognitions:**

- Meritorious State Best Teacher Award by Government of Telangana 2021
- Member, Board of Studies, Department of Microbiology, Hindi MahaVidyalaya.
- CCmember, AMI local Chapter, Hyderabad.
- Best Poster award- Characterization of Inulinase produced from *Bacillus tequilensis* using Low Cost Substrates-International e conference on Advances in Microbial biotechnology and Biotherapeutics (AMTB-2020), Osmania University association with CMFT and AMI Hyderabad chapter, (10-12<sup>th</sup> September, 2020).

#### **Invited Guest Lectures/ Resource Persons:**

- Invited as resource person for On line Faculty Development Program on Research methodology organized by Little Flower Degree college on 15.7.2021 to 21-7-2021
- Invited as resource person/Guest speaker for mentoring St Francis college teachers on DBT star college scheme 25-5-2021.
- Invited as Guest speaker for mentoring RBVRR college teachers on DBT star college scheme on 16-7-2019.
- Invited as Guest speaker at Govt. Degree College for Women, Nampally.
- Invited as Guest speaker at Mumtaz PG College.

**Consultancy:**

Consultant to A.S. Rao Awards Council as subject expert

**Membership of Professional bodies**

- Life Member of Association of Microbiologists of India( AMI).
- Life Member of Association of Biotech Research Society of India (BRSI).

**Extension and outreach activities organized**

- HIVAwareness Campaign to School students of ZP Girls High school Malakajgiri on 1<sup>st</sup> December 2021.
- Rabies awareness program on account of World Rabies Day on 28<sup>th</sup> September 2021.
- Awareness program on Novel Corona Virus (COVID19) to Non teaching support staff of BVC on 19<sup>th</sup> February 2020.
- Exploring science through Hands on Activities on 30th July, 2019.
- An awareness rally on ‘‘Rabies Prevention & Control on the occasion of ‘‘World Rabies Day’’ on 27th& 28th Sep 2019.
- Outreach program for school students of ChitrakootVidyashram, Sainikpuri on 28.7.2018.
- An Outreach program ‘‘Cancer Awareness on 26th July 2017
- Outreach Programme for school students of 8th and 9th classes about ‘‘Health and Hygiene’’ on 06.08.2016 at Nimmagadda Anandamma Memorial Girls School.
- Outreach program Hepatitis awareness on 19th July 2014 at Z.P Boys High School, Malkajgiri. On occasion of World’s Hepatitis Day.