

Dr.M.P.KUSUMA

CURRICULUM VITAE



OBJECTIVE :

To establish myself as a Challenging Personality with updating knowledge and Skill development and positive result reporting personality

EDUCATION

Diploma in Pharmacy,1995

K.E.S. Polytechnic College for women,Vijayawada

Bachelors in Pharmacy,2000

Department of Pharmaceutical Sciences,
Andhra University, Visakhapatnam

Master's in Biotechnology,2002

Department of Pharmaceutical Sciences,
Andhra University, Visakhapatnam

Ph.D,2017

Andhra University, Visakhapatnam

Qualified in GATE ,2000

PROFESSIONAL EXPERIENCE

Assistant professor , **GITAM University** (2.6yrs).

Assistant professor in **R.B.V.R.R. WOMEN COLLEGE OF PHARMACY**
since 9-10-08 till date.

RESEARCH PUBLICATIONS

1. M.P.Kusuma, M.Narasimharao, G.H.Rao and K.Jayaraju. **Use of soluble and Immobilized Lipase for Castor Oil Hydrolysis** to the Journal Proceedings of A.P. Academi Sciences, Vol: 9(4), 345-347.
2. Sk.khasim beebi, Sayeeda Khatoon and M.P.Kusuma. **Physico chemical properties of Steel plant effluent in AppiKonda beach of Visakhapatnam** Indian Journal of Environmental Sciences, IJEP 27(2): 159-161.2007.
3. M.P.Kusuma and M.V.V.Chandana Lakshmi. **Production of Pectin lyase by *Aspergillus flavus* using Cereal raw materials.** Journal of Current Sciences 10(2) 903-906.2007.
4. K.Aruna lakhshmi and M.P.Kusuma. **Effect of Parthenium hysterophorus linn. on the seedling vigour of pulses and legumes.** Journal of Phytological research 2(2):335-338,2008.
5. Sk.Khasim beebi, M.V.V.Chandanalakshmi, M.P.Kusuma and O.Sandhya. **Biodegradation of Ammonia using Bacterial and Fungal Cultures.** Indian Journal of Environmental Protection 28(5);430-433,2007.
6. M.P.Kusuma and M.V.V.Chandana Lakshmi. **Effect of pectinase concentration produced utilizing whole wheat flour on the color yield of enzyme extracted plant carotenoids.** Asian Journal of Microbiology, Biotechnology & Environmental Sciences,vol.10(4);777-78, 2008.
7. M.P.Kusuma and M.V.V.Chandana Lakshmi. **Anti microbial activity of locally available vegetables.** Asian journal of Chemistry vol.20(7),2008.

8. M.P.Kusuma and M.V.V.Chandana Lakshmi. **A study on phenol degradation by *Pseudomonas putida* and *Pseudomonas fluorescens*.** Asian Journal of Microbiology, Biotechnology & Environmental Sciences vol.10 (4);835-838,2008.
9. M.P.Kusuma,J.Archana and B.Archana. **Comparative study of various entrapped techniques of immobilization using amylase.** Biosciences,biotech. Research asia,Vol7(2),995-998,2010.
10. J.Archana and M.P.Kusuma. A study of Cardiovascular and Antimicrobial effects of ***Tinospora cordifolia*.** International Journal of Pharmaceutical Sciences and research. Vol. 3(9): 3486-3489, 2012.
11. M.P.Kusuma and Ch. Vijaya Bhargavi. **Studies on production, purification and molecular characterisation of polygalacturonase from *Bacillus subtilis*.**European Journal of Biotechnology and Bioscience; 1 (5), 1-6,2014
12. M.P.Kusuma and D.Sri Rami Reddy. **Optimization of Polygalacturonase using isolated *Bacillus subtilis* C4 by submerged fermentation.** Journal of Pharmacy Research,8(2),106-112,2014 .
13. M.P.Kusuma and D.Sri Rami Reddy. **Purification and Characterisation of Polygalacturonase using isolated *Bacillus subtilis* C4.** Research journal of Microbiology, 9(2),95-103,2014.
14. M.P.Kusuma and D.Sri Rami Reddy. **Screening of alkalophilic and Thermophilic potential isolate for production polygalacturonase.** International journal of innovative research in science,engineering and Technology,2014,3(4),11936-956. . **UGC approved**),
15. M.P.Kusuma and M.V.V.Chandana Lakshmi. **Comparison of activity of pectinase using agricultural waste substrates – a study.** JIARM,2(11),2014.
16. M.P.Kusuma and D.Sri Rami Reddy. **Thermoalkaline polygalacturonase- a review.** Int. J. Pharm. Sci. Rev. Res., 28(1), September – October 2014; No. 30, 162-165,2014(0.65)

17. M.P.Kusuma and M.V.V.Chandana Lakshmi. **Oligonucleotides – a new generation drugs, International Journal of Institutional Pharmacy and Life Sciences** 5(4): 2015(0.888)
18. M.P.Kusuma, Archana J and Vijaya Bhargavi M. **A Comparative study of Myrosinase activity in selected cruciferous vegetables after conventional heat and microwave treatments.** International Journal of Current Research; 8(10),2016(7.77)
19. J.Archana and M.P.Kusuma , **Antioxidant and Anti Cholinesterase Potential of Red Cabbage (*Brassica oleracea var. capitata f. Rubra*),** European Journal of Medicinal Plants, ISSN: 2231-0894, 22(1); Pp: 1-7,2018
20. **Curcumin Nanoconjugates- A Restitutive Therapeutics International Journal of Pharmacy and Biological Sciences-IJPBS (2019) 9 (2): 47-51.** (0.88)
21. Archana jorige, kusuma mellacheruvu punyavathi. **The need to confront antimicrobial resistance in India** European journal of clinical pharmacy,21(4),2019 (0.13)
22. M.P.Kusuma and C.sushmitha. **Design, formulation and optimization of rutin trihydrate emulgel by response surface methodology** IJPSR, 2021; Vol. 11(11): 5799-5804.(1.23)
23. M.P.Kusuma and Manisha. Investigation of Invitro Antimicrobial and Analgesic activity of Polyherbal extract **International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)** IJBPAS, April, 2021, 10(4): 1132-1136
24. M.P.Kusuma and D.Swati **Comparative Evaluation Of Antimicrobial Efficacy Of Curcumin Nano Suspension And Curcumin Suspension**

Using Agar Diffusion Method: *An Invitro Study* World J Pharm Sci 2020;
8(5): 63-66.7.62(7.62)

25. M.P.Kusuma, C.Sushmitha and J.Archana, **Formulation And Evaluation
Of Rutin Trihydrate Emulgel**, Indian Drugs, 57(11), 2020 (0.07)

Areas of Expertise:

1. Purification and Characterisation of Enzymes and proteins
2. Fermentation technology
3. Antimicrobial studies
4. Biodegradation studies

Seminars Attended

1. Ground water depletion : A major Concern of Future Proc.National Seminaar on Contemporary problems in Urban Areas (With special reference to Visakhapatnam, A.P)
2. Proc. National Seminar on Contemporary problems in Urban Areas (With special reference to Visakhapatnam, A.P, organized by Andhra University) 13-14 March 2006
3. Two day National Seminar on Environmental Protection and Climate securing (Low Carbon futures)organized by Association of British Scholars and British Council, Chennai on 25-26th March .
4. Symposium on Desalination, Integrated water Management and Reuse organized by Department of chemical Engineering (INDACON 2008) on 28th and 29th Feb 2008.
5. Indian Science Congress organized in Andhra University Jan3-5th of 2008
6. International conference on Sustainable Environmental sanitation and Water resources during New Millennium (SESNM-2008) on March 26th organized by Dept of Environmental Science, Gitam University.

7. **Presented a paper** on “Antioxidant potential of vegetable oils”, UGC sponsored national conference on 10th and 11th April 2014, organized by Department of zoology and Department of Food and nutrition ,OU, college for women, Koti,Hyderabad.
8. **Presented a paper** on “ Studies on production, purification and molecular characterisation of polygalacturonase using *Bacillus subtilis* C4” in ICECPS 2014 organised by CSIR – IICT , Hyd and Science tech foundation, Bengaluru.

Workshops Programmes attended

1. Attended Three Day Orientation Programme on Teaching methodologies organized by Academic Staff College, Andhra University in collaboration with GITAM 16th-18th November 2006.
2. Participated in three day workshop on “Emerging Techniques in Molecular Biology” Organized by Bangalore Genei in Collaboration with GITAM 24th -25th August 2006
3. Participated in three day workshop on “Ultra filtration & chromatography” Organized by ANITS on May 3rd & 4th, 2007
4. Participated in Two day workshop on recent advances in Pharmaceutical research, 8th and 9th April 2011, R.B.V.R.R. Womens college of pharmacy, Bharkatpura, Hyderabad.
5. Participated in One day International Workshop on Bioinformatics, “Bio Asia” Organised by NIPER Hyderabad on 9th February, 2012.
6. Participated in two days workshop on Applications of advanced analytical technique in pharmaceutical sciences and nanotechnology held during 16th and 17th sep 2016, JNTU, Hyderabad.
7. Pharmaceutical Education & Research Challenges for Emerging Prospects & trends” PERCEPT-2020, OU from 13-3-20 to 14-3-20

8. Successfully completed International Faculty development Programme on “Pharmaceutical Education and Research” Organized by Bapatla College of Pharmacy from 13-5-2020 to 18-5-20
9. Participated in 3-day INTERNATIONAL WEBINAR on QUALITY BY DESIGN organized by Innovation cell of Bapatla College of Pharmacy, Bapatla, Guntur (Dt) in association with Indian Pharmaceutical Association-Education Division from 23 may to 25 may 2020
10. IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28th April to 22nd May 2020 during COVID-19 nationwide lockdown.
11. Participated in e- FACULTY DEVELOPMENT PROGRAMME (e- FDP) On“Redefining the role of Educator in Covid-19 outbreak era ”. 11th May 2020 to 16th May 2020 organized by Anand college of Pharmacy and Gujarat Technological University
12. Successfully completed 4 weeks online FDP on “Effective use of ICT Tools in Teaching - Learning” from 8-6-20 to 7-7 -20, jointly organized by Modern college of Pharmacy,Pune association and APTI
13. Attended a webinar on “Understanding practice school and it’s concept in UG Pharmacy education” organized by Pharmacy council of India in association with Rajiv Gandhi University of Health Sciences,Bengaluru and JSS Academy of higher education and Research, Mysuru on 23-5-2020
14. Attended five day online FDP on Emerging trends in Biotechnological Advancements: Challenges and prospects in Tracking Human disease Organised by TLC, NIT Warangal, during 13-17th of July,2020

Membership in Professional Societies

1. Life member in “Indian Science Congress”Membership No: L12766
2. Life member in APTI –AP/LM 487.

STUDENT PROJECTS

Ph. D projects

Ongoing:2

1. Formulation development and evaluation of Rifaximin nano particles for colon targeted drug delivery system
2. Formulation and development of novel drug delivery systems for the selected anti-arthritic herbal drugs

M.Pharm :Completed

1. Formulation And Evaluation of Rutin Trihydrate Emulgel
2. Formulation And Evaluation Of Sustained Release Matrix Tablet Of Oseltamivir Phosphate

B.Pharm: Completed

- 1.Role of microwave assisted treatments in the extraction of flax seed oil from *linum usitatissimum*
2. Comparative evaluation of antimicrobial efficacy of curcumin nano suspension and curcumin suspension using agar diffusion method: *an invitro study*
3. Antimicrobial and Analgesic activity of Polyherbal extract
4. Formulation and evaluation of Rutin trihydrate transdermal patch

Administrative Experience

NBA Coordinator during the year 2017-2019

Library faculty incharge in coordinating the duties of the library