

CURRICULUM VITAE

NAME : **Dr. M. Vijayabhargavi**
DESIGNATION : **Associate Professor,**
HOD, Department of Pharmaceutical Chemistry.



CAREER OBJECTIVE

To seek a challenging career in a pharmaceutical field, which utilizes my skills & knowledge of medicinal chemistry and provides a growth oriented environment in research and management.

RESEARCH INTEREST

Area of Specialization is medicinal chemistry and research area is synthesis and molecular docking of various heterocyclic compounds. Thrust area of interested is computational design and synthesis of Novel drug like molecules having high potency towards inhibition of COX enzyme, with special focus on non trivial proteins and inhibition of proteins involved in signaling and transduction, DNA synthesis, angiogenesis, antiviral and antibacterial agents.

SKILLS:

- 12yr of teaching experience in medicinal chemistry for B.Pharm and M.Pharm courses.
- Theoretical and Practical knowledge in performing analytical tests using UV-VIS spectrophotometer, FTIR, and physical and chemical tests of pharmaceutical products and raw materials.
- Proficient in literature survey and interpretation of data.
- Report writing and presentation.
- Well versed in office related software like M.S.Office.
- Ability to learn new techniques quickly; work independently; commitment to quality, good in interpersonal and communication skills.
- Exposure to microwave mediated reactions, handling various reagents and reactions.
- Knowledge in interpreting Proton-NMR,IR,MASS,HPLC etc
- Knowledge in autodock vina, molinspiration, QSAR.

EDUCATIONAL PROFILE

Ph.D in Pharmaceutical Sciences from Osmania University in 2019 with a title entitled "**Synthesis, molecular docking and biological evaluation of chromone amides, oxadiazolo sulfonamides and coumarin oxime ethers as analgesic and anti inflammatory agents**" with the Guidance of Prof. M. Sumakanth & Prof. P. Shashikala.

M.Pharmacy (Pharmaceutical Chemistry) on the project entitled as

“Design, Synthesis and evaluation of some new non-thiazolidinedione PPAR γ agonist / antagonist as possible oral hypoglycemic agents” in Late Dr.Ch Ravishankar memorial medicinal chemistry laboratory, University College of Pharmaceutical Sciences, Kakatiya University, Warangal with the guidance of Prof. V. Malla Reddy, Warangal, in 2005. (75%)

Qualified in **GATE-2002**, All India Rank - 766

B.Pharmacy from University College of Pharmaceutical Sciences, Kakatiya University, Warangal, in 2001. (68%) Submitted an Industrial Training Report on the manufacturing processes of Tablets, Capsules, Liquid Orals, and Dry Syrups for the award of Bachelor's degree based on Industrial Training in Suzikem Laboratories, Cherlapalli, Hyderabad, Andhra Pradesh.

Intermediate from Sneha Girl's Junior College, Kodad in 1997 (85%).

SSC from St. Joseph's CCR High School, Kodad in 1995.

TEACHING EXPERIENCE: (Total Experience – 14yrs)

- Working as Associate Professor in RBVRR Women's College of Pharmacy, Hyderabad from October 2018 to till date.
- Worked as Assistant professor in RBVRR Women's College of Pharmacy, Hyderabad from October-2008 to October 2018.
- Worked as Lecturer in G. Pulla Reddy College of Pharmacy, Hyderabad from July 2005 to 2006.

Duties & Responsibilities Held:

- Worked as Co-Ordinator for Med.Chem Webinar Series-1 on “Computational Outlook in Drug Design” held on 6th March 2021.
- Editorial Board member for the Magazine & Newsletter “SUDITI” of at RBVRR Women's College of Pharmacy from the academic year 2015-16 to till date.
- Worked as member Scientific Committee and Organizing Committee for various workshops and conferences held at RBVRR Women's College of Pharmacy.

- Member of ALUMNI Committee, Purchase Committee, Grievance Committee.

PROFESSIONAL PARTICIPATION:

- Participated in NATIONAL Webinar on “Industrial Approach – Pharmaceutical Analytical Techniques” (IPAT – 2021) organized by A. U. College of Pharmaceutical Sciences, Andhra University, Visakhapatnam, on 27th February 2021.
- Participated in Webinar on “Artificial Intelligence in Drug Discovery and Health Care System” held on 4th– 8th August 2020 at RBVRR Women’s College of Pharmacy.
- Participated in the 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.
- Attended two-day webinar on Design of Experiments organized by Vignan Pharmacy College, Vadlamudi, Guntur, in collaboration with APTI on 30th and 31st May 2020.
- Participated in Two day National Seminar held on “**Human genome project in drug discovery and development**” organized by the RBVRR Women’s College of Pharmacy, held on 30th -31st August 2019, barkatpura, Hyd.
- Attended BioTecNika Schrodinger Joint Workshop on “**Computer- Aided Drug Discovery**” Organized by Biotecnika Info Labs Pvt Ltd on 22nd July to 2nd August 2019.
- Participated in three day workshop on “**Recent Trends in Formulation Design and Bioanalytical Estimations**” organized by the RBVRR Women’s College of Pharmacy, held on 28th -30th March 2019, barkatpura, Hyd.
- Participated in three day workshop on **Cheminformatics in drug discovery** organized by the RBVRR Women’s College of Pharmacy, held on 14th -16th Feb on 2019, barkatpura, Hyd.
- Participated in Tech Osmania – 2K19 28th, 29th and 30th March 2019.
- Participated in 2nd **Indo-malaysian** conference on “Recent Trends & Challenges in Pharmaceutical and Clinical Research” held on Oct 2018 organized by the RBVRR Women’s College of Pharmacy, barkatpura, Hyd.
- Participated in National Workshop on **Bioinformatics and sequence analysis** organized by the department of zoology, Kakatiya University, Warangal, on April 26-28, 2018.
- Participated in National Seminar on **Genomics in Drug Discovery** on 8th February 2018 organised by the R.B.V.R.R Women's College of Pharmacy, Hyd.

- Participated in National Seminar on **Computational Chemistry in Drug Design** on 1st September 2017 organised by the R.B.V.R.R Women's College of Pharmacy, Hyd.
- Participated in National Seminar on **Hyphenated Techniques in Pharmaceutical Research** organised by the R.B.V.R.R Women's College of Pharmacy, barkatpura, Hyd.
- Participated in UGC sponsored **Two Day Workshop for Chemistry Teachers** On 14th and 15th February 2017 organized by Department of Chemistry, R.B.V.R.R Women's College, Narayanaguda, Hyderabad.
- Participated in Two day National Workshop on **Applications of Advanced Analytical techniques in Pharmaceutical Sciences and Nanotechnology** held during 16th and 17th Sep 2016, at Centre for Pharmaceutical Sciences and Centre for Nano Science and Technology, IST, JNTUH, Hyd.
- Participated in International Symposium on **Pharmacogenomics and Pharmacoeconomics in Health care system** on 26th July 2016, organised by the R.B.V.R.R Women's College of Pharmacy, barkatpura, Hyd.
- Participated in 3rd Indo-US Conference on **Nanotechnology and Medicine: Challenges and Future Opportunities** organized by APP Telangana State Branch in collaboration with R.B.V.R.R Women's College of Pharmacy, barkatpura, Hyderabad, on September 26, 2015.
- Participated in A Two-day workshop on **Personalized medicine approaches in drug discovery and development** on 9th and 10th July 2015, organized by the R.B.V.R.R Women's College of Pharmacy, barkatpura, Hyd.
- Participated in **2nd UK-India MedChem Congress 2013** on Medicinal Chemistry on 22-23rd March, 2013 in CSIR-IICT, Hyd.
- Attended the seminar on **Spectro-Analytical Techniques** held on 28th Feb to 1st March 2013 in R.B.V.R.R Women's College, Department of Chemistry, Hyd.
- Attended one day International Workshop on Bioinformatics, **Bio Asia** organized by NIPER Hyderabad on 9th February, 2012.
- Participated in the **Two-Day National Seminar on Current Research Trends in Pharmaceutical Sciences** on 22nd and 23rd July 2011 in JNTU, Hyd.
- Participated in the two day workshop on **Recent Advances in Pharmaceutical Research** on 8th and 9th April 2011 organised by the R.B.V.R.R Women's College of Pharmacy, barkatpura, Hyd.
- Attended Two day workshop for **Chemistry PG Teachers** conducted by the Department of Chemistry on 18th and 19th February 2011 organized by R.B.V.R.R Women's College, Hyd.
- Participated in the **57th Indian Pharmaceutical Congress-2005** held at Hitex, Madhapur, Hyd, from 2-4th December 2005.

- Participated in National Symposium on **50 years of DNA Double Helix** on 29th to 30th December 2003.

PRESENTATIONS :

- Won First Prize in poster presentation on Synthesis, molecular docking and biological evaluation of 4, 5- substituted-1,2,3-triazoles as antibacterial agents in the National Seminar on Pharmaceutical Education & Research Challenges for Emerging Prospects & Trends (PERCEPT) held on 13th – 14th March, 2020 In association with consortium of Affiliated Colleges of Pharmacy, OU & IPA, Hyderabad.
- Poster presentation on **Synthesis and cytotoxic activity of Betulinic acid amides with 1,2,3-triazole linkage via click chemistry** in the 68th Indian Pharmaceutical Congress held on 16th -18th Dec 2016.
- Oral presentation on **Chromone: A Versatile Pharmacophore** in Drug Design in the International Conference on Biochemistry, Nutrition and Pharmacy in Human welfare: Recent Trends and Future Challenges held on 3rd-5th September 2015, hyd.
- Oral presentation on **Studies on production, purification and molecular characterization of polygalacturonase from Bacillus Subtilis** in the ICETCPS-2014, October 15-17, 2014 at CSIR-IICT, Hyd and Science-Tech Foundation, Bangalore.
- Poster presentation on “ **Synthesis and evaluation of some new non-thiazolidinedione PPAR γ agonist / antagonist as possible oral hypoglycemic agents** ” in two day national seminar on Emerging trends in synthetic aspects of medicinal chemistry on 28th and 29th October, 2005 organised by University College of Pharmaceutical Sciences, Kakatiya University, Warangal.
- Poster presentation on “**Phase transfer catalysis and its applications** ” in scientific poster seminar- 2004 organized by University College of Pharmaceutical Sciences, Kakatiya university.

PUBLICATIONS:

1. "Synthesis, Characterization, Molecular Docking and Biological Evaluation of N- (Benzyloxy)-1H-Indole-2-Carboxamide Derivatives" zaber Unnisa, M. Vijaya bhargavi, M.Sumakanth, International Journal of All Research Education and Scientific Methods, 2020, vol 8, issue12, 661-686.
2. Synthesis, Characterization, Molecular Docking and Biological Evaluation of 6- Methoxy-Benzothiazol-2-Yl-Amide Derivatives, M. Vijaya bhargavi, Nagma begum, M.Sumakanth, 8-11-2020, INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, vol 7, issue6, 111-122.
3. A REVIEW ON BIOSIMILARS , Nagma Begum and Dr. M. Sumakanth Zaberunnisa, Dr. M. Vijaya Bhargavi, 2020, European Journal of Biomedical and Pharmaceutical Sciences, vol 7, issue 5, 669-678.
4. "Recent advances in antibiotic hybrids" zaber Unnisa, M. Vijaya bhargavi, Nagma begum, M.Sumakanth, International Journal of Pharmaceutical Sciences and Nanotechnology, 2020, vol13, issue3.
5. "Design, Molecular Docking, Synthesis And Biological Evaluation Of Novel 2,5-Substituted Imidazole Derivatives As Anti-Inflammatory Agents" Akepogu Monalika and **M Vijaya Bhargavi**, International Journal of Pharma and Bio Sciences, 2020; doi 10.22376/ijpbs.2020.11.1.p13-27.
6. "A New strategy for bacterial Resistance-Efflux Pump inhibitors" Nagma Begum, M. Vijaya bhargavi, M.Sumakanth, International Journal of Emerging Technologies and Innovative Research Vol.6, Issue 6, Page no. 477-491, June 2019.
7. Synthesis, Molecular Docking, Analgesic, and Anti-Inflammatory Activities of New 1,2,4-Oxadiazolo-Sulfonamides **M. Vijaya Bhargavi**, P. Shashikala, M. Sumakanth, C. Krishna, 2018. *RussianJournal of General Chemistry*, 88(4), pp 804-811. (Impact factor - 0.553).
8. Synthesis, Molecular Docking and Biological Evaluation of Novel N-(Benzyloxy)-6-

Fluro- Chromone-2-Carboxamides and N-(Benzyloxy)-Chromone-3-Carboxamides as Analgesic and Anti-inflammatory Agents **M Vijaya Bhargavi**, P Shashikala, M Sumakanth and J Archana, 2018, 10 (5) (Impact factor - 0.4).

9. Design, Synthesis, and Cytotoxicity of Semisynthetic Betulinic Acid-1, 2, 4-Oxadiazole Amide Derivatives. Krishna, C., **Bhargavi, M.V.** and Krupadanam, G.L.D., 2018. *Russian Journal of General Chemistry*, 88(2), pp.312-318.(Impact factor - 0.553).

10. Design, Synthesis, Molecular Docking and Biological Evaluation of Novel Coumarin-oxime Ether Derivatives as COX-2 Inhibitors, 2017, **M. Vijaya Bhargavi**, P. Shashikala, M. Sumakanth, Shravan Kumar. Gunda, *Asian journal of chemistry*, vol 29, No.11, 2559-2564. (Impact factor - 0.15).

11. Coumarins and Chromones : A Remarkable Scaffolds for Anti-inflammatory Activity, 2017, **Vijaya Bhargavi M**, Shashikala P, Sumakanth M, *J. Pharm. Sci. & Res.* Vol. 9(9), 1483-1489.(Impact factor - 0.59).

12. Facile Regioselective Synthesis and Antimicrobial Activity of Novel 8-Isoxazoliny Coumarins *via* Nitrile Oxide Cycloaddition Approach Challa Krishna, **M. Vijaya Bhargavi** and G.L. David Krupadanam, 2017, *Asian Journal of organic & medicinal chemistry*, 2(4), pp.149-155.

13. Synthesis of pyranoisoxazoline/isoxazole annulated coumarins via intramolecular nitrile oxide cycloaddition and their cytotoxicity. Krishna, C., **Bhargavi, M.V.**, Rao, Y.J. and Krupadanam, G.L.D., 2017. *Russian Journal of General Chemistry*, 87(8), pp.1857-1863.(Impact factor - 0.553).

14. Design, synthesis and antimicrobial activity of benzyl hydroxamic acid analogues of coumarin Challa Krishna, **M Vijaya Bhargavi**, G L David Krupadanam, *Heterocyclic Letters* Vol. 7| No.3|671-682|May-July| 2017.(SJIF impact factor =3.833).

15. A Comparative study of Myrosinase Activity in selected Cruciferous Vegetables after Conventional Heat and Microwave Treatments, *International Journal of Current Research*, Kusuma, M.P., Archana Jorige and **Vijaya Bhargavi, M.8**, (12), 43668-43670, 2016.(Impact factor - 0.553).

16. Design, semisynthesis and cytotoxic activity of novel ester derivatives of betulinic acid-1,2,4-oxadiazoles. Journal of Asian Natural Products Research, Volume 18, 2016. Krishna Challa, **M Vijaya Bhargavi**, & G L David Krupadanam, pages 1158-1168, 17 Jun 2016.

(Impact factor - 0.66).

17. Synthesis and antimicrobial assessment of novel coumarins featuring 1,2,4-oxadiazole Challa Krishna, **M. Vijaya Bhargavi**, Ch. Prasad Rao, G.L. David Krupadanam, Medicinal Chemistry Research 24(10), October 2015, 3743–3751 (Impact factor - 1.23).

18. Multidrug resistance in Tuberculosis: An overview by **M.Vijayabhargavi** in International Journal of Pharmaceutical and Phytopharmacological Research 2014; 4(3): 157-163.(Indexed in Thomson Reuters - Web of Science, Elsevier (SCOPUS)).

19. Studies on production, purification, and molecular characterization of polygalacturonase from *Bacillus subtilis* by M.P.Kusuma and **Ch.Vijaya Bhargavi** in European Journal of Biotechnology and Bioscience 2014; 1(5): 1-6.

20. Retinoids: An overview of clinical applications in Dermatology by Archana J and **Vijaya Bhargavi.M**, Journal of Pharmaceutical Sciences and Research, Vol.2 (7), 2010, 376-383 (Impact factor - 0.59).

ACHIEVEMENTS :

- Appointed as a evaluator for SERB sponsored Two-Day National Conference On Transpiring Novelty and Hi-Tech Knowledge in Advanced Research in Pharmaceutical Sciences (TKRPS-2K17) on Jan 6th and 7th 2017 held at Teegala Krishna Reddy College of Pharmacy, Hyd.

FDP

- ET702x Designing learner centric MOOC an online course conducted from 2nd August, 2018 to 6th September 2018, offered by IITBombayX
- Completed 8 weeks FDP course in Computer Aided Drug Design, organized by NPTEL, MHRD (AICTE Approved) .

- Attended AICTE sponsored “Two week Faculty Development Program on Pharmaceutical Regulatory affairs & Intellectual property rights” 1st AUGUST – 14th AUGUST 2019 at JNTU Hyderabad.
- Attended AICTE Sponsered 6 Days Online STTP On Target Based Drug Design Strategies Utilising CADD Tools And Eco-Friendly Microwave Assisted Green Synthesis From 27th April To 2nd May 2020 Organized by ISF College of Pharmacy, MOGA.
- Attended one–week National Level e-FDP on Redefining the role of educator in covid-19 outbreak era jointly organized by Gujarat Technological University, Ahmedabad and Anand Pharmacy college, Anand, Gujarat during May 11-16,2020.
- Completed a two week online FDP on **pedagogy and challenges in pharmaceutical research** from 1st June to 12th June 2020, conducted by Maharajah’s college of Pharmacy, Vizianagaram.
- Successfully completed one week e-FDP on **Pharmaceutical Product Development: Challenges and Opportunities** from 15^h June 2020 to 19th June 2020 organised by Dr. L. H. Hiranandani college of Pharmacy, Ulhasnagar and Konkan Gyanpeeth Rahul dharkar college of Pharmacy and Research Institute, Karjat in collaboration with IPA and APTI.
- Completed Four week online FDP (MOOC) on Effective use of ICT Tools in Teaching – learning from 8th June to 7th July 2020 organised by Progressive Education Society’s Modern College of Pharmacy, Nigdi, Pune & APTI.
- One week online International Faculty Development Program on Innovations in Natural product Driven Drug Discovery and Analytical Chemistry organised by Department of Pharmacognosy and pharmaceutical analysis in Association of APTI APP (Association of Pharmacy Professionals) Society of Pharmacognosy (ISP) and Mybo Group by Shri Vishnu college of Pharmacy Bhimavaram from 6th to 11th july 2020
- Attended One Week e-FDP Insights into drug discovery and Development from 27th July to 1st August 2020 Organised by Department of Pharmacology, Pharm.Chemistry and Pharmacognosy, G.Pulla Reddy College of Pharmacy, Hyderabad in Association with Indian Pharmaceutical Association (IPA) – TS Branch and MYBO Group.

TECHNICAL SKILLS

Software:

- Operating Systems : MS-DOS, Windows95, Windows98
- Packages : MS-Office-2007
- Other : ChemBiodraw 11, ISIS Draw, Scifinder

PROFESSIONAL AFFILIATIONS

- Registered Member, *Andhra Pradesh Pharmacy Council*, India.
- Life Member, Association of Pharmaceutical Teachers of India.