

FACULTY DATABASE

Name: Dr.C.N.HEMALATHA

Designation: Assistant Professor

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Area: Pharmacy

Specialization: Pharmaceutical Chemistry

Affiliation:Dr.M.G.R. Educational and Research Institute, Deemed to be University, Maduravoyal, Chennai – 600095, Tamil Nadu



EDUCATION

Sl.No.	Course	Department	Affiliation
1	Ph.D	Pharmaceutical Chemistry	Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai (Deemed University)
2	M.Pharm	Pharmaceutical Chemistry	Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai (Deemed University)
3	B.Pharm	Pharmacy	The Tamilnadu Dr.M.G.R.Medical University, Chennai

OTHER DETAILS

COURSES:

- Successfully completed Basics of **Computer Aided Drug Discovery Part-I Online Course** on July 14th 2020 organized by Udemy.
- Attended “Summer School in Molecular Simulation & Structure Based Drug Design (**MSSBDD -2016**)”- B.S Abdur Rahman University, Vandaloor from 18th July 2016 to 29th July 2016. (Registration reference : **MSSBDD /SLS/2016/07**)
- Successfully completed and secured **74.33%** in **Industry Program in PharmaQuality Assurance and Quality Control – Autumn** conducted by **Bioinformatics Institute Of India - Noida** on Jan 2010.
- Attended the certificate programme in **Drug Discovery & Development throughBioinformatics** conducted during 9th–13thOct 2007 at **AU-KBC Research Centre, Chennai**.

OBJECTIVE STATEMENT /Research Interest: To explore more about the syntheticbiological active compounds and to study the SAR studies as well to design novel compounds, identifying the lead moiety by further computational studies.

Publications:

Published

2021

1. **Hemalatha C.N***, Hemamalini.B, Keerthana.V, Mehur Nisha.K, Pushpa Priya.G, Supriya. S, Harikrishnan.N. Novel Tetrahydro isoquinoline alkaloid derivative in treatment of COVID-19 by *insilico* studies.(Communicated and Accepted in **International Journal of Biology, Pharmacy and Allied Sciences (IJPAS)** Manuscript Reference Number: **MS/IJPAS/2022/6247.**)
2. **Hemalatha C N** et al , A review study on cellulitis., **Int. J. Res. Pharm. Sci.**, 2021, 12(2), 1552-155
3. **Hemalatha C.N*** , Thangavel.V, Keerthana.V, Harikrishnan.N. Therapeutic perspective:antivenom and herbal antidotes, **High Technology Letters**, Volume 27, Issue 5, 2021, 110-20.
4. **C.N. Hemalatha***, **V. Keerthana**, **N. Harikrishnan**, Consequences Faced By Educators During Covid-19 Lockdown A Questionnaire Based Survey, **High Technology Letters**, Volume 27, Issue 5, 2021, 188-202.

2020

5. Narayanaswamy Harikrishnan, Gejalakshmi Subramanian, **Hemalatha C N**, & Pavankumar V. (2020). RP-HPLC Method Development and Validation for the Estimation of Midostaurin in Bulk and Pharmaceutical Dosage Form. *International Journal of Research in Pharmaceutical Sciences*, 11(4), 5108-5112.
6. Hemalatha C N, Mehurnisha K, Preethi B, Keerthana V, & Harikrishnan N. (2020). Antioxidant Activity of Kiwi Fruit (*Actindia Chinensis*). *International Journal of Research in Pharmaceutical Sciences*, 11(4), 6810-6817.
7. **C.N. Hemalatha***, **A. Haripriya**, **P.Sharmili**, **N.Harikrishnan**. A Review on Regrafenib as Multikinase Inhibitor. *Drug Invention Today*. 2020: 13(01)., 19-22.
8. **Hemalatha.C.N**, **Janani.N**, **Vanishree S.**, **Harikrishnan N**. Role of Histone Deacetylase (HDAC) Inhibitors for the Treatment of Cutaneous T-Cell Lymphoma (CTCL). *Research Journal of Pharmacy and Technology*. 2020: 13 (06)., 2963-65.
9. **C.N. Hemalatha***, **A. Hemamalini.B**, **N.Harikrishnan**. Reimposing of marketed drugs in treatment of COVID 19 by insilicomethods. **International Journal of Pharmaceutical Research**.Jan - Jun 2020 | Supplementary Issue 1, 2714-15.

10. C.N.Hemalatha, S.Dhanalakshmi, S.Indumathi, D. Pavithra, N.Harikrishan. Methods of Induction of Alzheimer's disease in rat and mice. *Drug Invention Today*, 2020: Volume 14 (03), 381-86.

2019

11. Chandrasekar K, Kumar B, Saravanan A, Victor A, Sivaraj S, Haridoss M, Priyadurai P, **Hemalatha C. N**, Muthukumar V. A. Evaluation and Molecular Docking of Benzimidazole and its Derivatives as a Potent Antibacterial Agent. *Biomed Pharmacol J* 2019;12(4).
12. S Dhanalakshmi, **C N Hemalatha**, Sai Ramya Bharathi, C Dhivya, S Vanishree, V Rekha, V Vijayalakshmi, A Hari priya, and Sai Monisha. Optimization method for determination of swelling factor linum usitatissimum seeds. *Pharmacognosy Journal*,2019,11,5,936-943.

2018

13. **CN Hemalatha**, M.Vijey Aanandhi. Computational Study of Butyl and Naphthyl amine derivatives of Perylene di imides targeting telomerase enzyme for Anti Cancer Activity. *Asian J Pharm Clin Res*, Vol 11, Special issue 4, 2018, 73-77. **Asian Journal of Pharmaceutical Education and Research(AJPCR) (Scopus)**
14. **CN Hemalatha**, M.Vijey Aanandhi. Application of insilico studies targeting telomeric G Quadruplex by perylene di imides for Anti Cancer therapy. *Asian J Pharm Clin Res*, Vol 11, Special issue 4, 2018, 78-80. **Asian Journal of Pharmaceutical Education and Research(AJPCR) (Scopus)**
15. Sarmila.A, Swetha.S, Meera.V, **C N Hemalatha**, M. Sekar Babu, M. Vijey Aanandhi. Docking Study Targeting 3CYY Protein Using Alzheimer Drugs. **Drug Invention Today, Volume 10, Issue 7, 1281-84. 2018 (Scopus)**
16. M. Vijey Aanandhi, Joyita Krishnamurthi,S. Lakshmi Kanthamma, **CN Hemalatha**,. Virtual Screening Technique to identify Embelin as Potent Inhibitor of Mortalin-P53 Tumour Suppressor Protein. **Drug Invention Today. Volume 10; Issue 10: 1992-5,2018.(Scopus)**
17. **C N Hemalatha**, M Vijey Aanandhi. Application of 3D QSAR and Docking Studies in optimization of Perylene di imides as Anti Cancer agent. **Indian Journal of Pharmaceutical and Education Research**, 2018, Volume 52, Issue4, 46-53. **SCOPUS, SCI Indexed.**
18. **C.N. Hemalatha**, K. Elanchezhiyan, D.Pavithra, M. Vijey Aanandhi. Insilico Approach Of Compounds In Cissus Quadrangularis Targeting Multi-Proteins As Anti-Cancer Agents. **Drug Invention Today**. Vol 10, Issue 5, 2018. Pg No: 764-768 **SCOPUS Indexed.**

19. **C.N. Hemalatha**, D. Pavithra, S. Mahalakshmi, D. Karthikeyan, M. Sekar Babu, M. Vijey Aanandhi. Docking Studies For Anticancer Activity Using Anthraquinone Derivatives. **Drug Invention Today. SCOPUS Indexed. Volume 10, Special Issue 2, 2902-08, 2018.**
20. **C N Hemalatha**, M Vijey Aanandhi. Synthesis Of Some Novel Perylene DiImides And Evaluation Of Their Anti Cancer Activity. **Asian Journal Of Pharmaceutical And Clinical Research**, Volume 11, Issue 8, August 2018. Pg No. 425-433 Scopus Indexed. Impact Factor: 0.48.
21. M. Vijey Aanandhi, Niventhi. A, Rujaswini. T, **Hemalatha C.N**, Praveen. D. A Comprehensive Review on Role of Tau Proteins in Alzheimer's Pathology. **Research Journal of Pharmacy and Technology, Volume 11, Issue 2, 688-790, 2018. SCOPUS Indexed.**
22. S Rashmi, S. Nivethitha, **C N Hemalatha**, M. Vijey Aanandhi. Virtual Screening Studies of three closely related Withanolides to control cell proliferation and induction of cell Senescence. **Rasayan Journal of Chemistry. Vol 11, Issue 1, 339-344, 2018. SCOPUS Indexed.**
23. Nivethitha.S, Rashmi.S, **C N Hemalatha**, M. Vijey Aanandhi. Insilico Studies Of Thymoquinone In Nigella Sativa As Potential Anti Tumor Agent. **Biomedicine. Volume 38, Issue 1, 081-084, 2018. (Scopus)**
24. S. Lakshmi kanthamma, Joyita Krishnamurthi, **C. N. Hemalatha**, M. Vijey Aanandhi. Insilico approach of interaction studies in Bacopa monnieri compounds targeting multi-proteins for Alzheimer's Disease. **Research J. Pharm. and Tech 2018; 11(4): 1522-1526.**

2017

25. **C N Hemalatha**, M Vijey Aanandhi. 3D QSAR and Docking study of Perylene-di imides analogues as potent apoptosis inducer and efficacious anticancer agent. **Indian Drugs. Volume no 54, Issue No 12, Pg No: 15-27, 2017. Impact Factor: 0.14, SCOPUS Indexed.**
26. Marina Juliet, **C N Hemalatha**, M. Vijey Aanandhi. Computational Studies Of Purine Derivative Using Multiforms Of Human Polypeptides 1 As Target Enzyme For Anticancer Agents. **Asian J Pharm Clin Res**, Vol 10, Issue 9, 2017, 292-296 (SCOPUS)
27. **C N Hemalatha**, M Vijey Aanandhi. "G-Quadruplex Ligands as Stabilizertargeting Telomerase as Anti-Cancer Agents" **Asian Journal of Pharmaceutical and Clinical Research**, Vol 10, Issue 8, 2017, 50-53. **SCOPUS Indexed. Impact Factor: 0.48.**

28. M.Vijey Aanandhi, Debojit Bhattacharjee, **C N Hemalatha**. Design, Synthesis, Docking study of novel Perylene- di imides, endowed potent cell cytotoxicity towards HeLa: “A Future G-Quadruplex stabilizer”, **Biomedicine**, **SCOPUS Indexed**, **Impact Factor-0.36** SJR- 0.1, cites per doc-0.01, Volume 32 (2), 2017, pg No 209-213.
29. **Hemalatha C N**, Anbarasu K, Vijeyaanandhi Muthukumar. Evaluation Of Anti-Cancer And Anti-Oxidant Activity Of *Cissus Quadrangularis* Extracts In DMBA Induced Mammary Carcinomas. **Research Journal of Pharmacy and Technology**. Volume 10, Issue 1, 2017. **SCOPUS**, Impact Factor 0.14
30. **Hemalatha C N**, YeswanthPrasannaKumar, Vijeyaanandhi Muthukumar. Formulation & Characterization of Nanoparticles Loaded Cefadroxil. **Research Journal of Pharmacy and Technology**. Volume 10, Issue 1, 2017. **SCOPUS** ,Impact Factor- 0.14
31. A. Marina Juliet, **C N Hemalatha**, M. Vijey Aanandhi. Systematic Review of General Cancer Cell Survival Using Target Enzyme MTH1 and its Activity. **International Journal of Pharmaceutical Sciences Review and Research**.,42(1), January - February 2017; Article No. 39, Pages: 230-234 **Impact Factor (0.65)** **UGC Approved**.

2016

32. K.Rajamathi, M.Kalidasan, **C. N. Hemalatha** and M.Vijey Aanandhi. 2D And 3D QSAR Using Manual Method Of 6-Benzimidazole Derivatives, Zinc Metallopeptidase As Ace Inhibitor As Anti-Hypertensive Agents. **International Journal of Pharma and Bio Sciences**, 2016 July; 7(3): (P) 208–225. **UGC Approved**.

2013

33. Vijey Aanandhi Muthukumar, **Hemalatha Catna Nagaraj**, Debojit Bhattacharjee, Samuel George. Virtual screening studies to design dual inhibitors of integrase and caspase; QSAR, Pharmacophore modeling, and docking studies. **International Journal of Pharmacy and Pharmaceutical Sciences**., vol 5, suppl 3, 2013 95-102. **Impact (Cites per doc) - 0.91 (SCImago, SJR2013) SCOPUS indexed**

Guest Lecture

Presented the Topic” **Journal Metrics and Databases-An Overview**” during the Harvey’s Journal Club Meeting organized by Faculty of Allied Health sciences on 02nd July 2021 at Dr.M.G.R. R Educational and Research Institute, Chennai.

Online Certificate Course

Participated as Delegate in Introduction to Computational Drug design (Theory-Demo-Hands on) Co-Organized by Schrodinger & Pharmacy council of India between 21st September – 23rd October 2020 and in continuation with the above, enrolled Successfully completed Schrodinger online course on the topic ” **Introduction of Molecular Modelling in Drug Discovery**” from November 02nd to December 11th 2020 and received certificate from Schrodinger.

Working Papers/PROJECTS

1. Strategic Approach to Novel Anthraquinone derivatives for Anti-cancer activity.

ACADEMIC EXPERIENCE

S.No.	Name of the Institution	From	To	Years of Experience
01.	Assistant Professor in Faculty of Pharmacy, Dr.M.G.R Educational and Research Institute, Velappanchavadi, Chennai.	03 rd June 2019	till date	2 yr 06 months
02.	Assistant Professor in Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai.	2 nd July 2018	24 th May 2019	10 Months
03.	JRF (Junior Research Fellow) in Vels Institute of Science, Technology and Advanced Studies in Department of Pharmaceutical Chemistry, School of Pharmaceutical Sciences, VISTAS, Pallavaram.	06 th August 2015	16 th March 2018.	2.5yrs
04.	Assistant Professor in Jaya College of Paramedical Sciences, Thiruninravur.	13 th October 2014	3 rd August 2015.	10 Months

OTHER PROFESSIONAL EXPERIENCES

1. **Executive-Trainee** (Training & Development) in **Apollo Enterprises Pvt Ltd** July 2014 to September 2014.

2. **Pharmacist in Apollo Hospital Private limited** Chennai, India from June 2008 to May 2009.

ACHIVEMENTS AND AWARDS

AWARDED MEMENTO AND APPRECIATION CERTIFICATE

Received **MEMENTO and APPRECIATION CERTIFICATE** for being an Evaluator in the scientific session of 71st Indian Pharmaceutical Congress 2019 held at Sri Ramachandra Institute of Higher Education and Research (Deemed to be University) during 20th to 23rd December 2019, Chennai, Tamilnadu.

AWARDED APPRECIATION CERTIFICATE

Received **APPRECIATION CERTIFICATE** for the successful conduction of National Seminar on “An insight into Current Drug Research and Development” held on 12th and 13th November 2019, organized by Faculty of Pharmacy, Dr. M.G.R Educational and Research Institute, Velappanchavadi, Chennai.

AWARDED BEST RESEARCH SCHOLAR AWARD

Received **APP BEST RESEARCH SCHOLAR AWARD 2018** for outstanding research performance during APP 7th Annual Convention & 2nd Indo-US Conference held at School of Pharmaceutical Sciences, Vels Institute of Science, Technology and Advanced Studies, VISTAS, Chennai on 27th July 2018

AWARDED BEST E-POSTER PRESENTATION

Application of 3D QSAR and Docking studies in Optimization of Perylene di imides as Anti-Cancer agents. Presented an e-poster in Two Days National Symposium on “**Exploring the Advances and Challenges in Green and Protein Chemistry: Industry and Academia Perspectives**” ,SERB-DST, New Delhi and JSS Academy of Higher Education & Research, Mysuru (co-sponsored) organized by the Department of Pharmaceutical Chemistry, JSS College of Pharmacy, Udhagamandalam, Tamilnadu, on 9th and 10th March, 2018.

WON THE PGIBMS AWARD FOR THE YEAR 2017

Presented an Oral entitled “**Strategic Approach to target telomeric G-Quadruplex complex by perylene-di-imides for efficient Anti Cancer therapy.**” in the 38th Annual Conference of Indian Association of Biomedical Scientists (IABMS) Conference on “An insight into biomedical research for human health” held at Saveetha Medical College & Hospital, Thandalam, Chennai- 600 116 from 23rd to 26th November 2017.

AWARDED FIRST WITH A MOMENTO AND CASH PRIZE

Presented an **e-Poster** titled "**G-Quadruplex ligands as Stabilizer targeting Telomerase enzyme as Anti Cancer Agents**" at Mother Theresa Post Graduate and Research Institute of Health Sciences, Puducherry-held from 21st to 22nd October 2016, 4th National Conference on Pharma Sciences, Texo Pharma Virtus'16, **Theme: "Discovering Discoveries of Apothecarists"** Sponsored by Indian Pharmacy Graduates Association and Accredited by the Taminadu Dr. M.G.R. Medical University, Chennai with 20 Credit Points.

- **Abstract published** in the International Journal of Pharmacy and Therapeutics under the publisher Pharma Intelligence - Volume 7 (Issue 5- Supplementary-1) 2016, Pg No 138.

AWARDED "APPRECIATION CERTIFICATE"

For maintaining excellence in **Pharmacy Practices and Best Customer Services** for the Month of **MAY 2009** from **APOLLO PHARMACY - T.Nagar Branch**.