Personal Details	**PROF. DR. V. RAVICHANDRAN**
Academic Qualifications	**Ph.D (Pharmaceutical Sciences),** Dr. H.S. Gour Vishwavidyalaya, INDIA **M. Pharm (Pharm. Chemistry),** Dr. H.S. Gour Vishwavidyalaya, INDIA **B. Pharmacy,** The Tamilnadu Dr. M.G.R Medical University, INDIA
Administrative Duties	**Head**, Pharmaceutical Chemistry Unit
Publications (last 5 years)	**Publications** - Total 156; National – 14, International – 141, Editorial - 1 **Cumulative IF** (Clarivate Analytics, 2021): (~ 250) **Scopus Citation**: ~2780, **Scopus h-index**: 26, Google Scholar Citation: ~5100, Google Scholar h-index: 33, Google Scholar i10-index: 70 (As on October 2022) **Last five years (2017-2022)** **Patent** 1. Divya;KORE, Rakesh; PARMAR, Poonam; PATEL, Preeti; PATEL, Vijay Kumar; RAJAK, Harish;SHIRBHATE, Ekta; TIWARI, Priya; **VEERASAMY, Ravichandran**. A process for synthesizing n-(6,12-dioxo-6,12 dihydroindolo[2,1-b]quinazolin-8-yl)benzene sulfonamide derivatives for anticancer activities. Application No: 2021/10563. Application Date – 17-12-2021, Grant Date – 29-06-2022, South Africa. **Book Chapter** 1. **Veerasamy R.** QSAR—An Important In-Silico Tool in Drug Design and Discovery. In: Srinivas, R., Kumar, R., Dutta, M. (eds) Advances in Computational Modeling and Simulation. Lecture Notes in Mechanical Engineering. Springer, Singapore, **2022**, pp. 191-208. https://doi.org/10.1007/978-981-16-7857-8_16 2. **Ravichandran V**, Rohini K, Roy A, Rajeshkumar S. Microbial Mediated Synthesis, Characterisation and Application of Selenium Nanoparticles. In: Savita, Srivastava A, Jain R, Pati PK. (eds) Myconanotechnology: Green Chemistry for Sustainable Development. Bentham Science, Singapore, **2022**, pp. 62-102. https://doi.org/10.2174/9789815051360122030007 **Published articles** 1. Mun CS, Hui LY, Sing LC, Karunakaran R, **Ravichandran V**. Multi-Targeted Molecular Docking and Drug-Likeness Evaluation of Coumarin Based Compounds Targeting Proteins Involved in Development of COVID-19. **Saudi J. Biolog. Sci., 2022**; (Accepted) 2. Hui LY, Sing LC, Mun CS, Rajak H, Karunakaran R, **Ravichandran V**. Multi-targeted molecular docking, and drug-likeness evaluation of some nitrogen heterocyclic compounds targeting proteins involved in development of COVID-19. **Med. Chem., 2022**; (Accepted) 3. **Veerasamy R,** Karunakaran R. Molecular docking unveils the potential of andrographolide derivatives against COVID-19: An in-silico approach. **J. Genetic Eng. Biotech., 2022**; 20:1-16. 4. **Ravichandran V.** Identification of potential semisynthetic andrographolide derivatives to combat COVID-19 by targeting the SARS-COV-2 spike protein and human ACE2 receptor– An in-silico approach. **Biointerf. Res. Appl. Chem., 2023;** 13(2): 155. 5. Shirbhate E, **Veerasamy R**, Boddu SH, Tiwari AK, Rajak H. Histone deacetylase inhibitor-based oncolytic virotherapy: a promising strategy for cancer treatment. **Drug Discovery Today. 2022**; 27(6): 1689-1697.

6. Sing LC, Roy A, Hui LY, Mun CS, Rajak H, Karunakaran R, **Ravichandran V**. Multi-targeted molecular docking, drug-likeness and ADMET studies of derivatives of few quinolone, and acridine-based FDA approved drugs for anti-breast cancer activity. **Struc. Chem., 2022**; doi: /10.1007/s11224-022-01878-3
7. Patel VK, Shirbhate E, Patel P, **Veerasamy R**, Sharma PC, Raja H. Corticosteroids for treatment of COVID-19: effect, evidence, expectation, and extent. **Beni-Suef University J. Basic Appl. Sci., 2021**;10(1):1-13.
8. Roy A, Geetha RV, Magesh A, Vijayaraghavan R, **Ravichandran V.** Autoinjector – A smart device for emergency cum personal therapy. **Saudi Pharm. J., 2021;** 29(10): 1205–1215.
9. Thanigaivel S, Vickram AS, Anbarasu K, Gulothungan G, Nanmaran R, Vignesh D, Rohini K, **Ravichandran V.** Ecotoxicological assessment and dermal layer interactions of nanoparticle and its routes of penetrations. **Saudi J. Biolog. Sci., 2021;** 28(9):5168-5174.
10. **Veerasamy R**, Roy A, Karunakaran R, Rajak H. Structure–activity relationship analysis of benzimidazoles as emerging anti-inflammatory agents: An overview. **Pharmaceuticals 2021**; 14 (7): 663.
11. **Ravichandran V**, Rajak H. QSAR studies on neuraminidase inhibitors as anti-influenza agents. **Turkish J. Pharmac. Sci., 2021**; 18(2): 151-156.
12. Shirbhate E, Patel P, Patel VK, **Veerasamy R**, Sharma PC, Sinha BN, Rajak H. Synthetic and semi-synthetic drugs as promising therapeutic option for the treatment of COVID-19. **Mini Rev. Med. Chem., 2021;** 21(8): 1004-1016.
13. Shirbhate E, Patel P, Patel VK, **Veerasamy R**, Rajak H. Exploration of anticancer potential of hydroxamate derivatives as selective HDAC8 inhibitors using integrated structure and ligand based molecular modeling approach. **Indian J. Chem., 2021**; 60B: 136-147.
14. Divya SE, Patel P, Patel VK, **Veerasamy R**, Sharma PC, Rajak H. The combination of histone deacetylase inhibitors and radiotherapy: A promising novel approach for cancer treatment. **Future Oncology**, **2020;** 16(30): 2457-2469**.**
15. **Veerasamy R**, Karunakaran R, Rajak H. QSAR studies on polymerase acid endonuclease inhibitor as anti-influenza agents. **Inter. J. Pharma Res., 2020**; 11(1): 43-53.
16. Divya SE, Patel VK, Patel P, **Veerasamy R**, Jawaid T, Kamal M, Rajak H. Lead identification of hydroxamate derivative as selective HDAC2 inhibitor using computational approaches, **Indian Drugs, 2020**; 57 (07): 24-37.
17. **Veerasamy R**, Karunakaran R, Rajak H. Biological, phytochemical, and pharmacological aspects of Murdannia bracteata – A review. **Inter. J. Pharma Res., 2020**; 11(2): 16-20.
18. **Ravichandran V,** Sumitha S, Ning CY, Xian OY, Kiew Yu U, Paliwal N, Shah SA, Tripathy M. Durian waste mediated green synthesis of zinc oxide nanoparticles and evaluation of their antibacterial, antioxidant, cytotoxicity and photocatalytic activity. **Green Chem. Lett. Rev., 2020**; 13(2): 102-116.
19. Divya SE, Patel P, Patel VK, **Veerasamy R**, Sharma PC, Rajak H. Searching for potential HDAC2 inhibitors: Structure activity relationship studies on indole-based hydroxamic acids as an anticancer agent. **Lett. Drug Design Discov., 2020**; 17: 905-917.
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21. Venkateskumar K, Parasuraman S, Chuen LY, **Ravichandran V**, Balamurgan S. Exploring antimicrobials from the flora and fauna of

marine: Opportunities and limitations (**Review**). **Curr. Drug Discov. Technol., 2020;** 17: 507-514.
22. **Ravichandran V**, Vasanthi S, Shalini S, Shah SAA, Tripathy M, Paliwal N. Green synthesis, characterization, antibacterial, antioxidant and photocatalytic activity of *Parkia speciosa* leaves extract mediated silver nanoparticles. **Results Phys., 2019;** 15: 102565.
23. **Ravichandran V**, Shalini S, Suresh Kumar K, Rajak H, Agrawal RK. Design, synthesis and evaluation of thiourea derivatives as antimicrobial and antiviral agents. **Lett. Drug Des. Discov., 2019;** 16: 618-624.
24. **Ravichandran V**, Harish R. QSAR studies on imidazoles and sulfonamides as antidiabetic agents. **Ovidius University Annals of Chemistry**, **2019;** 30: 5-13.
25. **Ravichandran V**, Rohini K, Harish R, Parasuraman S, Sureshkumar K. Insights into the key structural features of triazolothienopyrimidines as anti-HIV agents using QSAR, molecular docking, and pharmacophore modelling. **Structural Chem**., **2019;** 30: 1471– 1484.
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29. Jain N, Jain H, Jain A, **Ravichandran V**, Jain P. Design, synthesis and evaluation of anti-inflammatory, analgesic and antibacterial activity of 2, 4, 6-trisubstituted quinazoline derivatives. **Ovidius University Annals of Chemistry**, **2018**; 29 (2): 97-97.
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32. **Ravichandran V.** Green chemistry – An environmentally benign chemistry. Editorial. **J. Young Pharm., 2018**; 10(2): 131.
33. Singh A, Raghuwanshi K, Patel VK, Jain DK, **Veerasamy R**, Dixit A, Rajak H. Assessment of 5-substituted isatin as surface recognition group: Design, synthesis, and antiproliferative evaluation of hydroxamates as novel histone deacetylase inhibitors. **Pharmaceutical Chemistry J., 2017**; 51: 366-374.
34. Singh A, Patel P, Patel VK, Jain DK, **Veerasamy R**, Rajak H. Histone deacetylase inhibitors for the treatment of colorectal cancer: Recent progress and future prospects. (**Review**) **Cur. Can. Drug Targets**. **2017**; 17: 456-466.
35. Patel VK, Singh A, Jain DK, Patel P, **Veerasamy R**, Rajak H. Combretastatin A-4 based thiophene derivatives as antitumor agent: Development of structure activity correlation model using 3D-QSAR, pharmacophore and docking studies. **Future J. Pharm. Sci., 2017; 71-78.**
36. Rajak H, Jain DK, Singh S, Singh A, Patel VK, **Veerasamy R**, Pawar RS. Novel pyrimidine based semicarbazones: Confirmation of four binding

	site pharmacophoric model hypothesis for antiepileptic activity. **Cent. Nerv. Syst. Agents Med. Chem., 2017;** 17: 64-71**.** 37. Jain DK, Singh A, Patel VK, **Veerasamy R**, Aggarwal N, Rajak H. Drug design strategies for the discovery of novel anticonvulsants concerned with four site binding pharmacophoric model studies. **Cent. Nerv. Syst. Agents Med. Chem., 2017;** 17: 30-50**.**
On-going Research	1. An Investigation on Male Contraception Activity of Extracts of Hibiscus Species- Mechanistic Studies 2. Design and synthesis of new 6-Azauridine nucleoside analogues against DENV-2 virus NGC strain: A molecular docking, 3D-QSAR and in vitro C6/36 cell line activity based anti-dengue study 3. QSAR and docking studies to explore anti-HIV, antidiabetic, anti-tubercular, anti-COVID-19, anticancer, antitoxin agents 4. Green Synthesis and characterization of metal nanoparticles
Completed Research	1. Study on mechanistic aspects of durian fruit waste (rind and seed) mediated green synthesis of silver nanoparticles as antimicrobial agent against food and waterborne microbes 2. Exploring QSAR of some anti-HIV agents. 3. Biological screening of Malaysian mussels 4. Knowledge, Attitude and Perception (KAP) of pharmacovigilance and adverse drug reaction reporting among the health care profession students in Malaysia 5. Community pharmacists' attitude towards professional practice in Malaysia
Research Grants	➢ An Investigation on Male Contraception Activity of Extracts of Hibiscus Species- Mechanistic Studies, FRGS grant from Ministry of Higher Education (MOHE), Government of Malaysia, 2015, **RM 112,200** – Role: Co-Investigator, in progress. (Ref: FRGS/1/2018/WAB13/AIMST/02/1) ➢ Design and synthesis of new 6-Azauridine nucleoside analogues against DENV-2 virus NGC strain: A molecular docking, 3D-QSAR and in vitro C6/36 cell line activity based anti- dengue study, FRGS grant from Ministry of Higher Education (MOHE), Government of Malaysia, 2018, **RM 147,800** – Role: Co-Investigator, in progress. (Ref: FRGS/1/2018/SKK06/AIMST/02/3) ➢ Study on mechanistic aspects of durian fruit waste (rind and seed) mediated green synthesis of silver nanoparticles as antimicrobial agent against food and waterborne microbes, FRGS grant from Ministry of Higher Education (MOHE), Government of Malaysia, 2015, **RM 98,600** – Role: Principal Investigator, Completed. (Ref: FRGS/1/2015/SKK08/AIMST/02/1) ➢ Exploring QSAR of some anti-HIV agents (AIMST University Research Grant, 2013, **RM. 10,000** – Role Principal Investigator, Completed. ➢ Biological screening of Malaysian mussels (AIMST University Research Grant, 2013, Co- investigator), 2013, **RM. 10,000**– Role: Co-investigator, Completed. ➢ Knowledge, Attitude and Perception (KAP) of pharmacovigilance and adverse drug reaction reporting among the health care profession students in Malaysia (AIMST University Research Grant), 2013, **RM. 10,000** – Role: Co-investigator, Completed ➢ Community pharmacists' attitude towards professional practice in Malaysia (AIMST University Research Grant), 2013, **RM. 10,000** – Role: Co-investigator, Completed.

Awards	➢ Received **Illustrious Alumnus Award**, Diamond Jubilee Celebration, 6-7th February 2016, Department of Pharmaceutical Sciences, Dr. H. S. Gour Vishwavidyalaya, Sagar (MP), India. ➢ Received **Young Scientist Award - Pharmacy**, Aufau International Award 2016, Aufau Periodicals, 4th June 2016, Hotel Silver Palace, Salem, India. ➢ Received **Teaching and Research Excellence Award**, IRDP Group of Journals, Chennai, India, 14th October 2017. ➢ **Top Producing Author in Publications- AIMST University** (Information from Thomson Reuters, Web of Science, 2014) ➢ **Profile** Included in Various International Biography Publications**.** ➢ Awarded **Doctoral Fellowship**, 2005- 2008 (AICTE –QIP). ➢ Awarded **Junior Research Fellowship** by the UGC during the period 1997-1998. ➢ Has been appointed as **Adjunct Professor** for **ITM School of Pharmacy,** Baroda University, Gujarat, India, since December 2019. ➢ Has been appointed as **Distinguished Faculty** for **Saveetha Dental College and Hospitals**, Chennai, Tamilnadu, India, since 8th May2018. ➢ Received **Dr. APJ Abdul Kalam award** for **Teaching Excellence 2020** and **Scientific Excellence 2020**, Research and Development, Marina Labs, Chennai, India, 07th March2021. ➢ Featured among **TOP 2% Scientist in the World** 2019 by **Stanford University**, USA, 2020 (Based on Scopus Citation and author contribution). ➢ Placed in the **Top 1000 Scientist Position in Malaysia**, 2020, according to AD Scientific Index for the Year 2019 (Based on Google Scholar Citation). ➢ Received **International Scientist Awards - ISAM 2020**, VDGOOD Technology, Madurai, India, 21 and 22nd August 2020. ➢ Have been appointed as **Expert Reviewer for NAWA (Polish National Agency for Academic Exchange) under the ULAM program**, and reviewed a research proposal assigned by NAWA, Poland. ➢ Featured among **Top 2% Scientist in the World 2020** by **Stanford University**, USA, 2021 (Based on Scopus Citation and author contribution). ➢ Placed in the **Top 1000 Scientist Position in Malaysia,** 2021, according to AD Scientific Index for the Year 2020 (Based on Google Scholar Citation). ➢ Serving as **Director**, Centre of Excellence in Biomaterial Engineering, AIMST University, Malaysia, since 13th August 2021. ➢ Received **PMSDS Distinguished Pharmaceutical Scientist award 2021**, Pharma Medical Sciences Development Society (PMSDS), Majhra Ghat, Rampur, India, 28 and 29th January 2021. ➢ Placed in the **Top 1000 Scientist Position in Malaysia,** 2022, according to AD Scientific Index for the Year 2021 (Based on Google Scholar Citation) and top place in AIMST University. ➢ Featured among **Top 2% Scientist in the World 2021** by **Stanford University**, USA, 2022 (Based on Scopus Citation and author contribution). ➢ **Editorial Activity/Journal Reviewer**: **Expert Reviewer** – 125+ Journals, Associate Editor – 4 Journals, **Advisory Editorial Board member** - 4 Journals, **Editorial BoardMember** – 22Journals

	➢ **Adjudicator for PhD thesis**: Banaras Hindu University (India), The Tamilnadu Dr. MGR Medical University (India), Annamalai University (India), PRIST University (India), Vels University (India), Bharathidasan University (India), Bharathiar University (India), NIRMA University (India), Siksha 'O' Anusandhan-Deemed University (India), AIMST University (Malaysia), JSS Academy of Higher Education & Research (Deemed to be University, India), Periyar Maniammai University of Science and Technology (Deemed to be University, India), University of Madras (India), Ram Krishna Dharmarth Foundation University (India), Dr. HariSingh Gour Vishwavidyalaya (A Central University, India), Karpagam Academy of Higher Education (Deemed to be University, India), Sarvepalli Radhakrishnan University (India), Nirma University (India). ➢ **Adjudicator for Master thesis**: AIMST University (Malaysia), University of Cape Town (South Africa) ➢ **Invited Speaker/ Guest Lecture – 11** ➢ **Webinar (Resource Person) - 20**
Professional Membership	➢ Registered Pharmacist (Reg. No. 2547/A1) -Tamil Nadu Pharmacy Council, Chennai. ➢ Life member of Indian Pharmaceutical Association (TN/MDS/LM/0293). ➢ Life member of Indian Pharmacy Graduate Association (LM5984). ➢ Fellow Society for Applied Biotechnology, India. ➢ Life member of Society of Biological Chemist, India (3788). ➢ Member in Nanosociety, US. ➢ Life member of Pharma Medical Sciences Development Society, India, since January 2021.
Supervision	**Cosupervisor** Ph.D – 1 (awarded) Master -1 (awarded), 2 (Pursuing) Graduate Projects (B.Pharm) – 39
Teaching	The courses (including Post Graduate) 1. Introduction to Medicinal Chemistry 2. Pharmaceutical Chemistry-I 3. Pharmacognosy 4. Pharmaceutical Analysis 5. Drug Modeling 6. Peripheral Nervous System and Pharmacotherapy 7. Central Nervous System and Pharmacotherapy 8. Cardiovascular System and Pharmacotherapy 9. Research Methodology (PG and PhD)
Areas of Expertise	➢ Design, Synthesis & Evaluation of Various Medicinal Compounds ➢ QSAR & Molecular Docking Studies to Explore structure and Activity Relationships ➢ Phytochemical and Biological Investigation of Medicinal Plants ➢ Green Synthesis and Characterization of Metal Nanoparticles ➢ Development and Validation of Analytical Methods for Pharmaceuticals

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