

CURRICULUM VITAE

PERSONAL DETAILS

Full Name : **DR. MAHENDRAN SEKAR**
Date of Birth : 30th May 1983
Nationality : India
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CURRENT POSITION / APPOINTMENT / EMPLOYMENT

1. **Associate Professor**, School of Pharmacy, **Monash University Malaysia**, Bandar Sunway, Selangor, **MALAYSIA. (February 2023 – till date).**
2. **Distinguished Adjunct Faculty member** in the Department of Pharmacology, Saveetha Dental College & Hospitals, **Saveetha Institute of Medical and Technical Sciences, Saveetha University**, Chennai, Tamilnadu, **INDIA. (Nov 2021 – till date).**
3. **Moderator/External Examiner** to evaluate the B.Pharm Theory Exam Papers for the subjects under Department of Pharmaceutical Chemistry from **JSS Academy of Higher Education and Research, MAURITIUS. (May 2022 – till date).**

EDUCATIONAL BACKGROUND

2008 - 2011: PhD in Pharmaceutical Sciences, JSS College of Pharmacy, Ooty. The Tamilnadu Dr. MGR Medical University, Chennai, Tamilnadu, INDIA.

Dissertation: *Structure Activity Relationship of Bioactive Compounds from Medicinal Plants.*

2005 - 2007: Master of Pharmacy (Pharmaceutical Chemistry), JSS College of Pharmacy, Ooty. The Tamilnadu Dr. MGR Medical University, Chennai, Tamilnadu, INDIA.

Dissertation: *Phytochemical and Biological Investigation of Hypericum hookerianum.*

2000 - 2004: Bachelor of Pharmacy, Swamy Vivekanandha College of Pharmacy, Tiruchengode. The Tamilnadu Dr. MGR Medical University, Chennai, Tamilnadu, INDIA.

Dissertation: *Phytochemical and Biological Investigation of Cassia auriculata.*

SUBJECT EXPERT

- Pharmaceutical Chemistry & Medicinal Chemistry
- Pharmaceutical Analysis & Pharmaceutical Organic Chemistry
- Pharmacognosy & Natural Products Chemistry
- Research Methodology

CURRENT RESEARCH AND INTEREST

My research is mainly in the field of drug discovery and development of natural products. I am an expert in the extraction, isolation and characterization of active constituents from medicinal plants. I have formulated natural products into different dosage forms and evaluated them for their biological properties. I am also interested in the development of innovative products. Currently, my research team also working about Pharmacological investigations on isolated compounds from medicinal plants. I have successfully completed a few research grants and actively involved in applying for research grants for various funding agencies in National and International levels including the Ministry of Health (MOH), Ministry of Higher Education (MOHE) and Ministry of Science, Technology and Innovation (MOSTI), Malaysia.

AWARDS AND ACHIEVEMENTS

1. Received “**Loyal Service Award 2022**” for “**10 Years of Loyal and Distinguished Service (2012-2022)**” to Universiti Kuala Lumpur Royal College of Medicine Perak, Ipoh, Malaysia.
2. Received “**Top Performer Award 2021**” for Outstanding Performance to Universiti Kuala Lumpur Royal College of Medicine Perak in 2021, Malaysia.
3. Won **Silver Medal** in 32nd International Invention Innovation & Technology Exhibition 2021 (**ITEX 2021**), KLCC, Kuala Lumpur, Malaysia. [*Natural EMN for Severe Asthma and COVID-19 Treatment*]
4. Won **Silver Award** in International Conference and Exposition on Inventions by Institutions of Higher Learning (**PECIPTA 2019**), Johor Bahru, Malaysia. [*Nano EMN for Cancer Drug Delivery*]
5. Won **Silver Medal** in 9th Made in Universiti Kuala Lumpur Competition 2019 (**MIU 2019**), UniKL MIIT, Kuala Lumpur, Malaysia. [*Mangiferin N,O-CMC Nanoparticles for Cancer Treatment*]
6. Won Third Prize for **Best Oral Presentation** in 11th Asean and 8th Perak Health Conference on Primary Health Care in 2019, Ipoh, Malaysia.
7. Won **Gold Medal** in 30th International Invention Innovation & Technology Exhibition 2019 (**ITEX 2019**), KLCC, Kuala Lumpur, Malaysia. [*Nano EMN for Cancer Drug Delivery*]
8. Won **Advanced Category Silver Award** in Community Research and Innovation Competition 2019 (**CoRIC 2019**), USM Penang, Malaysia. [*Nano EMN for Cancer Drug Delivery*]
9. Received “**Top Performer Award 2018**” for Outstanding Performance to Universiti Kuala Lumpur in 2018, Malaysia.
10. Received “**Special Award 2018**” from Universiti Kuala Lumpur Royal College of Medicine Perak in recognition of achievement throughout the year 2018, during UniKL-RCMP annual dinner 2018.

11. Won **Most Promising Invention Award** in **PERiNTIS 2018** (Invention and Innovation Competition of Private Higher Education Institution) Organized by **Management & Science University (MSU)**, Shah Alam, Malaysia. *[Novel and Natural USG]*
12. Won **Gold Award** in **PERiNTIS 2018** (Invention and Innovation Competition of Private Higher Education Institution) Organized by **Management & Science University (MSU)**, Shah Alam, Malaysia. *[Novel and Natural USG]*
13. Received “**Outstanding Researcher in Pharmaceutical Chemistry Award**” during the “**1st Annual Healthcare Meet 2018**” organized by “**Venus International Foundation**”, Chennai, India.
14. Received “**International Achievement Award**” in “**6th Faculty Branding Awards-2018**” organized by “**Education Expo TV - Companies Rating System (EET-CRS)**” Kolkata, India.
15. Received “**Anugerah Pendidik Cemerlang MARA 2018**” (**MARA Excellent Educator Award 2018**) in MARA Educators Day 2018, Malaysia.
16. Won **Gold Medal** in 8th Made in Universiti Kuala Lumpur Competition 2018 (**MIU 2018**), UniKL MFI, Bangi, Malaysia. *[MAC- Youth Forever]*
17. Won **Silver Medal** in 8th Made in Universiti Kuala Lumpur Competition 2018 (**MIU 2018**), UniKL MFI, Bangi, Malaysia. *[Nanoman for Cancer Drug Delivery]*
18. Won **Bronze Medal** in 8th Made in Universiti Kuala Lumpur Competition 2018 (**MIU 2018**), UniKL MFI, Bangi, Malaysia. *[E-Gel for Topical Delivery]*
19. Won **Gold Medal** in 29th International Invention Innovation & Technology Exhibition 2018 (**ITEX 2018**), KLCC, Kuala Lumpur, Malaysia. *[Novel and Natural USG]*
20. Won “**Silver Medal**” in Malaysia Technology Expo 2018 (**MTE 2018**), PWTC, Kuala Lumpur, Malaysia. *[Novel and Natural USG]*
21. Received “**ICON Award 2017**” for Outstanding Performance to Universiti Kuala Lumpur in 2017, Malaysia.
22. Won “**Bronze Award**” in International Conference and Exposition on Inventions by Institutions of Higher Learning (**PECIPTA 2017**), Kuala Terengganu, Malaysia. *[Novel and Natural Latent Fingerprint Powder]*
23. **Winner** of Community Research and Innovation Competition 2017 (**CoRIC 2017**), USM Penang, Malaysia. *[Novel and Natural USG]*
24. Won **Bronze Medal** in Novel Research and Innovation Competition 2017 (**NRIC 2017**), USM Penang, Malaysia. *[Natural Antibacterial and Anti-inflammatory Cream]*
25. Won **Bronze Medal** in Novel Research and Innovation Competition 2017 (**NRIC 2017**), USM Penang, Malaysia. *[Natural Mosquito Repellent Liquid]*
26. Won **Second Runner-up** in Made in Universiti Kuala Lumpur Competition 2017 (**Made in UniKL 2017**), UniKL MSI Kulim, Malaysia. *[Natural Mosquito Repellent Liquid]*

27. Won **Gold Medal** in 7th Made in Universiti Kuala Lumpur Competition 2017 (**Made in UniKL 2017**), UniKL MSI Kulim, Malaysia. *[Natural Antibacterial and Anti-inflammatory Cream]*
28. Won **Gold Medal** in 7th Made in Universiti Kuala Lumpur Competition 2017 (**Made in UniKL 2017**), UniKL MSI Kulim, Malaysia. *[Novel and Natural USG]*
29. Won **Gold Medal** in 7th Made in Universiti Kuala Lumpur Competition 2017 (**Made in UniKL 2017**), UniKL MSI Kulim, Malaysia. *[Natural Mosquito Repellent Liquid]*
30. Won **Best Presenter Award** in 10th Asean and 7th Perak Health Conference on Primary Health Care in 2017, Ipoh, Malaysia.
31. Won **Best Innovative Product Award** in Defence, Security and Sustainability Exhibition 2017 (**DSS 2017**), UPM, Kuala Lumpur, Malaysia. *[Novel and Natural Latent Fingerprint Powder]*
32. Won **Best Poster Award** in Defence, Security and Sustainability Exhibition 2017 (**DSS 2017**), UPM, Kuala Lumpur, Malaysia. *[Novel and Natural Latent Fingerprint Powder]*
33. Won **Gold Medal** in Defence, Security and Sustainability Exhibition 2017 (**DSS 2017**), UPM, Kuala Lumpur, Malaysia. *[Novel and Natural Latent Fingerprint Powder]*
34. Won **Gold Medal** in 28th International Invention Innovation & Technology Exhibition 2017 (**ITEX 2017**), KLCC, Kuala Lumpur, Malaysia. *[Novel and Natural Latent Fingerprint Powder]*
35. Won **Best Exhibition Booth Award** in University Technology Petronas Innovation Competition 2017, Seri Iskandar Perak, Malaysia. *[Novel and Natural Latent Fingerprint Powder]*
36. Won **Bronze Medal** in Malaysia Technology Expo 2017 (**MTE 2017**), PWTC, Kuala Lumpur, Malaysia. *[Novel and Natural Antiaging Cream]*
37. Won **Gold Medal** in Apprentice Innovation Research Exhibition 2016 (**AIREx 2016**), UniKL MIMET, Lumut Perak, Malaysia. *[Novel and Natural Antiaging Cream]*
38. Won **Gold Medal** in 6th Made in Universiti Kuala Lumpur Competition 2016 (**Made in UniKL 2016**), UniKL MICET, Melaka, Malaysia. *[Novel and Natural Antiaging Cream]*
39. Won **Silver Medal** in 6th Made in Universiti Kuala Lumpur Competition 2016 (**Made in UniKL 2016**), UniKL MICET, Melaka, Malaysia. *[Novel and Natural Herbal Shampoo]*
40. Won **Silver Medal** in 6th Made in Universiti Kuala Lumpur Competition 2016 (**Made in UniKL 2016**), UniKL MICET, Melaka, Malaysia. *[Natural Antibacterial Ointment]*
41. Received “**Top Performer Award 2014**” for Outstanding Performance to Universiti Kuala Lumpur in 2014, Malaysia.
42. Received **Fee Waiver Scholarship** to participate as an oral presenter in “International Conference on Nutraceutical and Cosmetic Sciences 2012”, UiTM, Kuala Lumpur, Malaysia.

43. Received **Junior Research Fellowship Award** (2009-2011) from University Grants Commission, New Delhi, India.

EMPLOYMENT & ADMINISTRATIVE RESPONSIBILITIES

- 2023 – Present: **Associate Professor**, School of Pharmacy
Monash University Malaysia, Bandar Sunway, Selangor, Malaysia.
- 2019 – 2023: **Associate Professor / Head, Department of Pharmaceutical Chemistry**
Universiti Kuala Lumpur, Royal College of Medicine Perak, Ipoh, Malaysia.
- 2013 – 2019: **Senior Lecturer / Head, Department of Pharmaceutical Chemistry**
Universiti Kuala Lumpur, Royal College of Medicine Perak, Ipoh, Malaysia.
- 2012 – 2013: **Lecturer**
Universiti Kuala Lumpur, Royal College of Medicine Perak, Ipoh, Malaysia.
- 2011 – 2012: **Assistant Professor**
Swamy Vivekanandha Institute of Pharmaceutical Sciences, Andhra, India.
- 2009 – 2011: **Junior Research Fellow** (University Grants Commission, UGC), India.
JSS College of Pharmacy, Ooty, Tamilnadu, India.
- Apr – Nov 2007: **Lecturer**
CNK Reddy College of Pharmacy, Bangalore, Karnataka, India.

CURRENT & PROFESSIONAL MEMBERSHIP

- 2013 – Present: **Malaysian Pharmaceutical Society, Malaysia (S3100)**
- 2004 – Present: **Tamilnadu Pharmacy Council, India (9594/A1)**
- 2018 – Present: **Malaysian Natural Product Society, Malaysia (B0413)**
- 2018 – Present: **Indian Pharmacy Graduates Association, India (LM-6218)**

RESEARCH ARTICLE CITATIONS & RESEARCHER LINK

Google Scholar (149)	Citations – 2815	H-index – 31	i10-index – 85
Scopus (114)	Citations – 1283	H-index – 19	NA
Web of Science (77)	Citations – 778	H-index – 16	NA
Research Gate (149)	Citations – 2050	H-index – 23	NA

ORCID ID: <https://orcid.org/0000-0002-3022-6137>

Google Scholar ID: Mahendran Sekar

Scopus Author ID: 36080944800

Web of Science Researcher ID: J-6945-2016

Research Gate: Mahendran Sekar

TEACHING RESPONSIBILITIES

Subject	Level of Student
From Feb 2023 @ Monash University	
How Medicine Works I	Bachelor of Pharmacy
How Medicine Works II	Bachelor of Pharmacy
How Medicine Works III	Bachelor of Pharmacy
Inquiry and Innovation Methods	Bachelor of Pharmacy
Scientific Inquiry	Bachelor of Pharmaceutical Sciences
Until Feb 2023 @ UniKL	
Research Methodology	PhD in Pharmacy & Master of Pharmacy
Organic Chemistry I & II	Bachelor of Pharmacy
Pharmaceutical Analysis I & II	Bachelor of Pharmacy
Medicinal Chemistry	Bachelor of Pharmacy
Pharmacognosy	Bachelor of Pharmacy
Natural Products Chemistry	Bachelor of Pharmacy
Research Methodology & Research Project	Bachelor of Pharmacy
Pharmaceutical Organic Chemistry I	BSc in Pharmaceutical Technology
Pharmaceutical Medicinal Chemistry I	BSc in Pharmaceutical Technology
Research Project	BSc in Pharmaceutical Technology

ADMINISTRATION RESPONSIBILITIES

1. Organizing Chairman for MONASH INITIATE 2023 (Monash International Health Science and Technology Conference) which will be held at Monash University Malaysia, Selangor, Malaysia on 25-26 October 2023.
2. Co-ordinator of Research Methodology Course for Post Graduate Students (2018 – till date).
3. Head of Teaching and Research (FYP) Laboratory Committee, Faculty of Pharmacy and Health Sciences, UniKL-RCMP (2013 – till date).
4. Organizing Chairman of 3rd International Conference of Pharmacy and Health Sciences 2021 (ICPHS 2021).
5. Event advisor for MyPSA National Pharmacy Compounding Challenge 2021, organized by UniKL, May 2021.
6. Head of Pharmaceutical Chemistry Department (2013 – till date).
7. Head of Research Laboratory (Postgraduate) Committee (2016 – 2022).
8. Member of UniKL Research Ethics Committee (2020 – till date).
9. Member of Academic Staff Further Study Monitoring Committee (2019 – till date).
10. Member of Curriculum Review and Development Committee (2013 – till date).
11. Member of Teaching and Assessment Committee (2018 – till date).
12. Member of Continuous Professional Development Committee (2013 – till date).
13. Member of Vetting Final Examination Question Paper Committee (2013 – till date).
14. Member of Research and Post Graduate Studies Committee (2018 – till date).
15. Head of Teaching and Assessment Committee (2013 – 2018).

RESEARCH GRANT AWARDED

1. **Short Term Research Grant (STRG) – Co-investigator – RM 20,000.00 (2023-2024) [Ref: UniKL/CoRI/str22041]**
Anti-angiogenic Potential of New Diarylpentanoid Analogue via TLR4/MyD88-dependent Signalling Pathway.

2. **ASEAN-India Collaborative R&D Scheme under ASEAN-India S&T Development Fund (AISTDF), Department of Science and Technology, Government of India – Principal Investigator - RM 227,016.97 = INR 4010688.00 (2022-2024) [Ref: CRD/2021/000428]**
Anisotropic nanostructures material-enabled/embedded mask and sanitizing solution to combat pandemic respiratory disease.

3. **YPOMNM Incentive Research Grant 2022 – Co-Investigator – RM 6000.00 (2022-2024) [Ref: YPOMNM/2022-04 (02)]**
Elucidation of Therapeutic Effects of Karanjin and Karanjin-loaded Chitosan Nanoparticles against Microglial Cells-Mediated Neuroinflammation using In-vitro and In-silico Analyses.

4. **Fundamental Research Grant Scheme (FRGS) – Co-Investigator – RM 171,800.00 (2020-2023) [Ref: FRGS/1/2020/SKK06/UNIKL/03/2]**
Neuroprotective Mechanism of Karanjin through Regulation of NF- κ B and TLR4 Signaling Pathways in Experimental Animal Models of Parkinson's Disease.

5. **Fundamental Research Grant Scheme (FRGS) – Co-Investigator – RM 135,000.00 (2020-2023) [Ref: FRGS/1/2020/SKK06/UNIKL/02/4]**
Neuroprotective Mechanism of Mangiferin through Regulation of Oxidative Stress and Inflammation against 3-Nitropropionic Acid Induced Huntington's disease in Rats.

6. **Fundamental Research Grant Scheme (FRGS) – Co-Investigator – RM 100,000.00 (2019-2021) [Ref: FRGS/1/2019/STG01/UNIKL/02/2]**
Design and Synthesis of Bivalent N2- β -Carboline Derivatives as a Potential Compound Derived Chemotherapeutic Agents.

7. **Fundamental Research Grant Scheme (FRGS) - Principal Investigator – RM 177,500.00 (2018-2021) [Ref: FRGS/1/2018/SKK10/UNIKL/02/1]**
Evaluation of Protective Mechanism of Embelin against Cyclophosphamide Induced Cardiotoxicity in Rats.

8. **Short Term Research Grant (STRG) Co-investigator – RM 20,000.00 (2018-2020) [Ref: UniKL/CoRI/str18024]**
Formulation and Evaluation of Sunscreen Cream Containing Graptophyllum pictum Leaves Extract.

9. **Short Term Research Grant (STRG) – Principal Investigator – RM 19,500.00 (2015-2017) [Ref: UniKL/CoRI/str15077]**
Green Synthesis of Silver Nanoparticles Mediated by Rambutan Fruits Extract and its Antibacterial and Antioxidant Activities.

10. **Skim Geran Penyelidikan dan Inovasi Mara (SGPIM) – Principal Investigator – RM 50,000.00 (2014-2016) [Ref: MARA/UNI:1/33/01/02/14]**
Formulation and Evaluation of Novel Antiaging Cream Containing Rambutan Fruits Extract.

PATENTS

1. Alavala RRK, Awasthi R, Azad AK, Babu RN, B RR, Dhiman N, Fuloria NK, Fuloria S, Malviya R, Meenakshi DU, Mohammad J, Rao GSNK, **Sekar M**, Singh A, Srivastava SP, Subramaniyan V, Sundram S, Tiwari N, Yagnik SK. **Eine Vorrichtung zur Herstellung von modifiziertem Babul-Gummi aus Acacia Nilotica**. Patent no. G11839DE. Germany
2. Malviya R, Sundram S, Alam MA, Mishra PS, Mishra R, Fuloria NK, Fuloria S, Subramaniyan V, Gupta SK, Chaudhary S, Sharma PK, Natesan G, **Sekar M**, Verma S, Chauhan A, Dubey A, Varshney S. **A formulation and a method to develop transdermal film for the delivery model protein drug through non-invasive route**. Patent no. 2022/00715. South Africa.
3. **Sekar M. Natural Ultrasound Gel for Physiotherapy Treatment** (Patent no. PI 2018500002, 2018). MyIPO, Malaysia.
4. **Sekar M. Natural Latent Fingerprints Powder from Durian Seeds** (Patent no. PI 2017500013, 2017). MyIPO, Malaysia.

JOURNAL PUBLICATIONS

1. Hussain MS, Afzal O, Kumar G, Altamimi ASA, Almalki WH, Alzarea SI, Kazmi I, Fuloria NK, **Sekar M**, Meenakshi DU, Thangavelu, L, Sharma A. Long Non-Coding RNAs in Lung Cancer: Unraveling the Molecular Modulators of MAPK Signaling. Pathology - Research and Practice. 2023;249:154738. <https://doi.org/10.1016/j.prp.2023.154738>
2. Goh KW, Stephen A, Wu YS, Sim MS, Batumalaie K, Gopinath SCB, Mac Guad R, Kumar A, **Sekar M**, Subramaniyan V, Fuloria NK, Fuloria S, Velaga A, Sarker, MMR. Molecular Targets of Aptamers in Gastrointestinal Cancers: Cancer Detection, Therapeutic Applications, and Associated Mechanisms. Journal of Cancer 2023; 14(13): 2491-2516. <https://doi.org/10.7150/jca.85260>
3. Manimaran V, Nivetha RP, Tamilanban T, Narayanan J, Vetrivelan S, Fuloria NK, Chinni SV, **Sekar M**, Fuloria S, Wong LS, Biswas A, Ramachawolran G and Selvaraj S (2023) Nanogels as novel drug nanocarriers for CNS drug delivery. Frontiers in Molecular Biosciences 10:1232109. <https://doi.org/10.3389/fmolb.2023.1232109>
4. Thapa R, Ali H, Afzal O, Bhat AA, Almalki WH, Alzarea SI, Kazmi I, Altamimi ASA; Jain N, Pandey M, Fuloria NK, **Sekar M**, Meenakshi DU, Jakhmola V, Singh SK, Dua, K, Gupta G. Unlocking the potential of mesoporous silica nanoparticles in breast cancer treatment. Journal of Nanoparticle Research 2023;25:169. <https://doi.org/10.1007/s11051-023-05813-3>
5. Bhatt P, Kumar V, Subramaniyan V, Nagarajan K, **Sekar M**, Chinni SV, Ramachawolran G. Plasma Modification Techniques for Natural Polymer-Based Drug Delivery Systems. Pharmaceutics. 2023;15(8):2066. <https://doi.org/10.3390/pharmaceutics15082066>
6. Nirenjen S, Narayanan J, Tamilanban T, Subramaniyan V, Chitra V, Fuloria NK, Wong LS, Ramachawolran G, **Sekar M**, Gupta G, Fuloria S, Chinni SV and Selvaraj S. Exploring the contribution of pro-inflammatory cytokines to impaired wound healing in diabetes. Frontiers in Immunology. 2023;14:1216321. <https://doi.org/10.3389/fimmu.2023.1216321>

7. Surya Teja SP, Damodharan N, Tamilanban T, Subramaniyan V, Chitra V, Chinni SV, Wong LS, Fuloria NK, **Sekar M**, Fuloria S, Ramachawolran G and Selvaraj S. Impact of nanocarrier aggregation on EPR-mediated tumor targeting. *Frontiers in Bioengineering and Biotechnology*. 2023;11:1222693. <https://doi.org/10.3389/fbioe.2023.1222693>
8. Lum PT, **Sekar M**, Seow LJ, Shaikh MF, Arulsamy A, Retinasamy T, Gan SH, Gnanaraj C, Esa NM, Ramachawolran G, Subramaniyan V, Chinni SV and Wu YS. Neuroprotective potency of mangiferin against 3-nitropropionic acid induced Huntington's disease-like symptoms in rats: possible antioxidant and anti-inflammatory mechanisms. *Frontiers in Pharmacology*. 2023;14:1189957. <https://doi.org/10.3389/fphar.2023.1189957>
9. Osman AI, Hosny M, Eltaweil AS, Omar S, Elgarahy AM, Farghali M, Yap P, Wu Y, Nagandran S, Batumalaie K, Gopinath, SCB, John, OD, **Sekar M**, Saikia T, Karunanithi P, Mohd Hatta MH, Akinyede KA. Microplastic sources, formation, toxicity and remediation: a review. *Environmental Chemistry Letters*. 2023;21:2129-2169. <https://doi.org/10.1007/s10311-023-01593-3>
10. Ramli S, Wu YS, Batumalaie K, Guad RM, Choy KW, Kumar A, Gopinath SCB, Rahman Sarker MM, Subramaniyan V, **Sekar M**, Fuloria NK, Fuloria S, Chinni SV, Ramachawolran G. Phytochemicals of *Withania somnifera* as a Future Promising Drug against SARS-CoV-2: Pharmacological Role, Molecular Mechanism, Molecular Docking Evaluation, and Efficient Delivery. *Microorganisms*. 2023;11(4):1000. <https://doi.org/10.3390/microorganisms11041000>
11. Amir Yusri MA, **Sekar M**, Wong LS, Gan SH, Ravi S, Subramaniyan V, Mat Rani NNI, Chidambaram K, Begum MY, Ramar M, Safi SZ, Selvaraj S, Wu YS, Revathy P, Fuloria S, Fuloria NK, Lum PT, Djearmane S. Celastrol: A Potential Natural Lead Molecule for New Drug Design, Development and Therapy for Memory Impairment. *Drug Design, Development and Therapy*. 2023;17:1079-1096. <https://doi.org/10.2147/DDDT.S389977>
12. Nabihah Nasir N, **Sekar M**, Ravi S, Wong LS, Sisinthy SP, Gan SH, Subramaniyan V, Chidambaram K, Mat Rani NNI, Begum MY, Ramar M, Safi SZ, Selvaraj S, Chinna Maruthu SK, Fuloria S, Fuloria NK, Lum PT, Djearmane S. Chemistry, Biosynthesis and Pharmacology of Streptonigrin: An Old Molecule with Future Prospects for New Drug Design, Development and Therapy. *Drug Design, Development and Therapy*. 2023;17:1065-1078. <https://doi.org/10.2147/DDDT.S388490>
13. Velayutham NK, Thamaraikani T, Wahab S, Khalid M, Ramachawolran G, Abullais SS, Wong LS, **Sekar M**, Gan SH, Ebenezer AJ, Ravikumar M, Subramaniyan V, Mat Rani NNI, Wu YS, Jeyabalan S. Stylopine: A potential natural metabolite to activate vascular endothelial growth factor receptor 2 (VEGFR2) in osteosarcoma therapy. *Frontiers in Pharmacology*. 2023;14:1150270. doi: <https://dx.doi.org/10.3389/fphar.2023.1150270>
14. Sharma A, Sundram S, Malviya R, Verma S, Fuloria NK, Fuloria S, **Sekar M**, Mishra N, Meenakshi UD. Patient Care and Treatment Strategies for Skin Diseases in Sub Saharan Africa: Role of Traditional and Western Medicines. *Infectious Disorders - Drug Targets*. 2023;23(3):69-85. <https://dx.doi.org/10.2174/1871526522666220919105643>

15. Fuloria S, Subramaniyan V, Gupta G, **Sekar M**, Meenakshi DU, Sathasivam K, Sudhakar K, Alharbi KS, Almutairi SS, Almalki WH, Fuloria NK. Detection of Circulating Tumor Cells and Epithelial Progenitor Cells: A Comprehensive Study. *Journal of Environmental Pathology, Toxicology and Oncology*. 2023;42(3):1-29. <https://doi.org/10.1615/JEnvironPatholToxicolOncol.2022044456>
16. Subramanian S, Duraipandian C, Alsayari A, Ramachawolran G, Wong LS, **Sekar M**, Gan SH, Subramaniyan V, Seethalakshmi S, Jeyabalan S, Dhanasekaran S, Chinni SV, Mat Rani NNI, Wahab S. Wound healing properties of a new formulated flavonoid-rich fraction from *Dodonaea viscosa* Jacq. leaves extract. *Frontiers in Pharmacology*. 2023;14:1096905. <https://doi.org/10.3389/fphar.2023.1096905>
17. Rahim NS, Wu YS, Sim MS, Velaga A, Bonam SR, Gopinath SCB, Subramaniyan V, Choy KW, Teow S-Y, Fareez IM, Samudi C, Sekaran SD, **Sekar M**, Guad RM. Three Members of Transmembrane-4-Superfamily, TM4SF1, TM4SF4, and TM4SF5, as Emerging Anticancer Molecular Targets against Cancer Phenotypes and Chemoresistance. *Pharmaceuticals*. 2023;16(1):110. <https://doi.org/10.3390/ph16010110>
18. Rohilla S, Singh M, Priya S, Almalki WH, Haniffa SM, Subramaniyan V, Fuloria S, Fuloria NK, **Sekar M**, Singh SK, Jha NK, Chellappan DK, Negi P, Dua K, Gupta G. Exploring the mechanistic perspective of a new anti-tumor agent: Melatonin. *Journal of Environmental Pathology, Toxicology and Oncology*. 2023;42(1):1-16. <https://doi.org/10.1615/JEnvironPatholToxicolOncol.2022042088>
19. Govindan SN, Singh HK, Ling LW, **Sekar M**. Effect of blended self-directed learning on nursing students: Quasi-experimental approach. *Journal of Education and Health Promotion*. 2023;12:229. https://doi.org/10.4103/jehp.jehp_209_23
20. Subramanian A, Tamilanban T, Alsayari A, Ramachawolran G, Wong LS, **Sekar M**, Gan SH, Subramaniyan V, Chinni SV, Rani NNIM, Suryadevara N, Wahab S. Trilateral association of autophagy, mTOR and Alzheimer's disease: Potential pathway in the development for Alzheimer's disease therapy. *Frontiers in Pharmacology* 2022;13:1094351. <https://doi.org/10.3389/fphar.2022.1094351>
21. Tan EP, Djearmane S, Wong LS, Rajamani R, Tanislaus Antony AC, Subbaih SK, Janakiraman AK, Aminuzzaman M, Subramaniyan V, **Sekar M**, Selvaraj S. An In Vitro Study of the Antifungal Efficacy of Zinc Oxide Nanoparticles against *Saccharomyces cerevisiae*. *Coatings* 2022; 12(12):1988. <https://doi.org/10.3390/coatings12121988>
22. Essa RZ, Wu YS, Batumalaie K, **Sekar M**, Poh C. Antiviral peptides against SARS-CoV-2: therapeutic targets, mechanistic antiviral activity, and efficient delivery. *Pharmacological Reports* 2022;74:1166-1181. <https://doi.org/10.1007/s43440-022-00432-6>
23. Al-Sunaidar KA, Aziz NA, Hassan Y, Jamshed S, **Sekar M**. Association of Multidrug Resistance Bacteria and Clinical Outcomes of Adult Patients with Sepsis in the Intensive Care Unit. *Tropical Medicine and Infectious Disease* 2022;7(11):365. <https://doi.org/10.3390/tropicalmed7110365>
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99. **Sekar M**, Hazirah B. Formulation and Evaluation of Antibacterial Ointment Containing Embelin Isolated from *Embelia ribes*. *International Journal of Green Pharmacy* 2018;12:S570-S574.
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106. **Sekar M**, Afikaah SA, Ganesh SS, Vengata SM, Isaac Jason J, Phan AY. Formulation and Evaluation of Natural Ultrasound Gel for Physiotherapy Treatment. *Indo American Journal of Pharmaceutical Sciences* 2017;4:2548-2554.

107. **Sekar M**, Pavitra S, Afzan M. Formulation and Evaluation of Novel Antiaging Cream Containing Rambutan Fruit Extract. *International Journal of Pharmaceutical Sciences and Research* 2017;8:1056-1065.
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109. **Sekar M**, Haleeda Aqeela Merican NMN. Formulation and Evaluation of Herbal Shampoo Containing Rambutan Fruits Extract. *International Journal of Pharma and Bio Sciences* 2016;7:146-151.
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111. **Sekar M**, Nurashikin AR. Formulation, Evaluation and Antibacterial Properties of Herbal Ointment Containing Methanolic Extract of *Clinacanthus nutans* Leaves. *International Journal of Pharmaceutical and Clinical Research* 2016;8:1170-1174.
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113. **Sekar M**, Muhammad Zulhilmi A. Formulation, Evaluation and Antimicrobial Properties of Polyherbal Toothpaste. *International Journal of Current Pharmaceutical Research* 2016;8:105-107.
114. **Sekar M**, Nur Fatin Z, Nuraina A, Nur Afiqah AA, Abdin Shakirin MN, Hafizati Izuan M, Nurul Syuhada S, Mohd Syafiq A. Comparative Antioxidant Properties of Methanolic Extract of Red and White Dragon Fruits. *International Journal of Current Pharmaceutical Research* 2016;8:56-58.
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116. **Sekar M**, Hazlin Nadira MH, Fatin Shahirah AF, Syafina Syafawati MS, Nurul Noorain MZ, Muhammad Nafiz N, Mohd Syafiq A. Antibacterial Activity of the Methanolic Extract of *Hibiscus sabdariffa* Leaves and Fruits. *British Microbiology Research Journal* 2015;10:1-6.
117. **Sekar M**, Tuan Aimi N, Zalira SN, Syifa'a N, Meru Pratistha S, Putri Imana W, Mohd Syafiq A. Isolation and Characterization of Mucilage from Durian and Rambutan Seeds. *Indo American Journal of Pharmaceutical Sciences* 2015;2:523-528.

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119. **Sekar M,** Badami S, Ravi S, Thippeswamy BS, Veerapur VP. Synthesis and Evaluation of Analgesic and Anti-Inflammatory Activities of Most Active Free Radical Scavenging Derivatives of Mangiferin. *British Journal of Applied Science & Technology* 2014;4:4959-4973.
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121. **Sekar M,** Fatin Nabila AJ, Nur Hasyimah Z, Nur Izzati M, Nurul Ain Z, Ramizaton Annisa K, Mohd Syafiq A. Comparative Evaluation of Antimicrobial Properties of Red and Yellow Rambutan Fruit Peel Extracts. *Annual Research & Review in Biology* 2014;4:3869-3874.
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123. **Sekar M,** Muhammad Zulhilmi A, Ahmad Yasser Hamdi NA, Siti Nabila N, Zahida Z, Mohd Syafiq A. Ten Commonly Available Medicinal Plants in Malaysia Used for the Treatment of Diabetes – A Review. *Asian Journal of Pharmaceutical and Clinical Research* 2014;7:1-5.
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127. Shankar M, Balasubramaniam A, Gowrishankar NL, **Mahendran S.** Synthesis and Biological Evaluation of New Bis-indolyl (3-o-benzyl-1,2-o-isopropylidene-xylopentadialdose- α -d-glucofuranose. *Pharmaceutical Chemistry Journal* 2012;46:381-5.
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129. **Mahendran S**, Thippeswamy BS, Veerapur VP, Badami S. Anticonvulsant Activity of Embelin Isolated from *Embelia ribes*. *Phytomedicine* 2011;18:186-8.
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131. Thippeswamy BS, Nagakannan P, Shivasharan BD, **Mahendran S**, Veerapur VP, Badami S. Protective Effect of Embelin from *Embelia ribes* against Global Ischemia-Induced Brain Damage in Rats. *Neurotoxicity Research* 2011;20:379-86.
132. **Mahendran S**, Badami S, Ravi S, Thippeswamy BS, Veerapur VP. Synthesis and Evaluation of Analgesic and Anti-Inflammatory Activities of Most Active Antioxidant Derivatives of Embelin – A Structure Activity Relationship. *Chemical & Pharmaceutical Bulletin* 2011;59:913-9.
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134. **Mahendran S**, Badami S, Ravi S, Thippeswamy BS, Veerapur VP. Antioxidant, Analgesic and Anti-Inflammatory Studies of Novel Ninhydrin Adduct of Embelin. *Pharmaceutical Chemistry Journal* 2011;45:547-51.
135. **Mahendran S**, Ravi S, Badami S, Suresh B. Isolation of 3,3'-dihydroxy flavonol 7-rhamnoside from *Hypericum hookerianum*. *Indian Journal of Heterocyclic Chemistry* 2008;18:103-104.
136. Santoshkumar HD, Badami S, Ashok G, **Mahendran S**, Vijayan P, Suresh B. Cytotoxic and Antioxidant Properties of Four Plants Belonging to the genus *Solanum*. *Oriental Pharmacy and Experimental Medicine* 2008;8:86-92.

PUBLICATION OF CHAPTERS IN BOOKS

1. **Sekar M**, Zuraini NZA, Rani NNIM, Lum PT, Gan SH. **Antimicrobial Properties of Honey**. In: Khalil MI, Gan SH, Goh BH. **Honey: Composition and Health Benefits. (1st ed.)**. John Wiley & Sons Ltd. 2023; pp 186-196. <https://doi.org/10.1002/9781119113324.ch13>
2. **Sekar M**, Zaid NAM, Rani NNIM, Gan SH. **Use of Honey in Diabetes**. In: Khalil MI, Gan SH, Goh BH. **Honey: Composition and Health Benefits. (1st ed.)**. John Wiley & Sons Ltd. 2023; pp 210-219. <https://doi.org/10.1002/9781119113324.ch15>
3. **Sekar M**, Lum PT, Bonam SR, Gan SH. **Use of Honey in Liver Disease**. In: Khalil MI, Gan SH, Goh BH. **Honey: Composition and Health Benefits. (1st ed.)**. John Wiley & Sons Ltd. 2023; pp 224-234. <https://doi.org/10.1002/9781119113324.ch17>
4. **Sekar M**, Lum PT, Bonam SR, Gan SH. **Medicinal Benefits of Bee Venom**. In: Khalil MI, Gan SH, Goh BH. **Honey: Composition and Health Benefits. (1st ed.)**. John Wiley & Sons Ltd. 2023; pp 302-313. <https://doi.org/10.1002/9781119113324.ch22>

5. **Sekar M**, Azlan AYHN, Rani NNIM, Gan SH. **Medicinal Properties of Stingless Bee Honey**. In: Khalil MI, Gan SH, Goh BH. **Honey: Composition and Health Benefits**. (1st ed.). John Wiley & Sons Ltd. 2023; pp 314-329. <https://doi.org/10.1002/9781119113324.ch23>
6. Aditi S, Ashish V, Akanksha S, Rishabha M, Sekar M. **Use of Artificial Intelligence and Robotics: Making Drug Development Process Easier**. In: Malviya R. **Pharmaceutical Industry 4.0: Future, Challenges & Application**. (1st ed.). River Publishers. 2023; pp.145-186. <https://ieeexplore.ieee.org/servlet/opac?bknumber=10217090>
7. Sharma B, Verma A, Malviya R, **Sekar M**. **Artificial-Intelligence-Based Cloud Computing Techniques for Patient Data Management**. In: **Artificial Intelligence for Health 4.0: Challenges and Applications** (1st ed.). River Publishers. 2023; pp 1-25. <https://doi.org/10.1201/9781003373582-6>
8. Nandakumar S, Khan SA, Ganesan P, Sweetey P, Francis AP, **Sekar M**, Rajagopalan R, Meenakshi DU. **Deep Learning and Precision Medicine: Lessons to Learn for the Preeminent Treatment for Malignant Tumors**. In: Malviya R, Ghinea G, Dhanaraj RK, Balusamy B, Sundram S. **Deep Learning for Targeted Treatments: Transformation in Healthcare** (1st ed.). 2022; pp 127-169. <https://doi.org/10.1002/9781119857983.ch5>
9. Singh S, Sundram S, Malviya R, **Sekar M**. In: Malviya R, Sharma PK, Sundram S, Dhanaraj RK, Balusamy B. **Drug Development Using Cloud Application**. In: **Bioinformatics Tools and Big Data Analytics for Patient Care** (1st ed.). **Chapman and Hall/CRC**. 2022; pp 159-180. <https://doi.org/10.1201/9781003226949>
10. Fuloria S, Subramaniyan V, **Sekar M**, Wu YS, Chakravarthi S, Nordin RB, Sharma PK, Meenakshi DU, Mendiratta A, Fuloria NK. **Introduction to Microbiome**. In: Gupta G., Oliver B.G., Dua K., Singh A., MacLoughlin R. **Microbiome in Inflammatory Lung Diseases**. **Springer, Singapore**. 2022; pp 13-28. https://doi.org/10.1007/978-981-16-8957-4_2
11. **Sekar M**. **Natural Products in Aging Skin**. In: Victor Preedy & Vinood Patel. **Aging: Oxidative Stress and Dietary Antioxidants** (2nd ed.). **Elsevier Publication**, Academic Press. 2020; pp 267-273.
12. **Sekar M**. **Rambutan Fruits Extract in Aging Skin**. In: Victor Preedy & Vinood Patel. **Aging: Oxidative Stress and Dietary Antioxidants** (2nd ed.). **Elsevier Publication**, Academic Press. 2020; pp 303-307.
13. **Sekar M**, Pandian S, Badami S & Anil TM. **Preparation and Application of Plant Mediated Nanoparticles**. In: PD Gupta & N Udupa. **Nanotechnology in Health Care** (1st ed.). **S.P. Publications**, Jaipur, India. 2011; pp 135-146.

PARTICIPATION AS RESOURCE PERSON

1. Invited Speaker in “International Webinar” Organized by the JSS Academy of Higher Education and Research, Mysuru, INDIA, April 2023 (**Topic: *Emerging Trends in Nanotechnology: Utilizing Natural Products as a Promising Avenue for Nanoparticle Development***)
2. Invited Speaker in “2nd Science, Technology and Social Sciences Symposium 2022 (STSSS’2022)” Organized by the Asia Metropolitan University (AMU), Johor Bahru,

MALAYSIA, December 2022 (**Topic: Moving from Traditional Research to Innovative Natural Products for Sustainable Future and Developments**).

3. Keynote Speaker in AICTE-SPICES sponsored International Seminar on **"Innovations in Natural Products"** Organized by V.V. Institute of Pharmaceutical Sciences, Gudlavalleru, **INDIA**, August 2022 (**Topic: Innovations in Natural Products – Essential Role of Pharmacy Profession and its Impact on Health Care System**).
4. Invited Speaker in International Faculty Development Programme on "Holistic Approaches Towards Disease, Treatment: Regulations and Pharmacological Strategies" Organized by The Department of Pharmacognosy, KVSRR Siddhartha College of Pharmaceutical Sciences, Vijayawada, **INDIA**, August 2022 (**Topic: Innovations in Natural Products – Essential Role in Pharmacy Profession and its Impact on Health Care System**).
5. Invited Speaker in "Summer Webinar Series 2022" organized by Periyar College of Pharmaceutical Sciences, Tiruchirappalli, **INDIA**, May 2022. (**Topic: Current and Future Approaches in Drug Discovery and Development from Natural Products**).
6. Keynote Speaker in "2nd International Pharmacy Workshop on Metabolic Syndrome" with the theme of "Current and Future Therapies for Metabolic Syndrome" organized by Tishk International University, Erbil, **IRAQ**, May 2022. (**Topic: Current and Future Approaches in Drug Development from Natural Products**).
7. Invited Speaker in "International Webinar" organized by "Abirami College of Pharmacy, Coimbatore, Tamilnadu, **INDIA**, April 2022 (**Topic: Current and Future Approaches in Drug Discovery and Development from Natural Products**).
8. Invited speaker in "International Webinar" organized by St Dominic College of Asia (College of Pharmacy), **PHILIPPINES**, January 2022 (**Topic: Journey from Basic Research to Innovation in Natural Products**).
9. Invited speaker in "International Webinar" organized by the Department of Pharmacology, "Saveetha Dental College and Hospital," Saveetha Institute of Medical and Technical Sciences, Saveetha University, Chennai, **INDIA**, January 2022 (**Topic: Journey from Basic Research to Innovation in Natural Products**).
10. Invited Speaker in "International Conference on Modern Approaches of Research in Basic and Applied Sciences (MARBAS-2021)" organized by "Rajkamal Science and Management College, Bahadarabad, Haridwar, **INDIA**, December 2021 (**Topic: Drug Delivery of Natural Products in Brain for Neurodegenerative Disorders**).
11. Resource Person in AICTE Sponsored "International Conference on Virtual Tools in Drug Product Development" organized by "Bapatla College of Pharmacy", Bapatla, Andhra Pradesh, **INDIA**, October 2021 (**Topic: Current and Future Approaches in Drug Development from Natural Products**).
12. Invited Speaker in "International Conference on Emerging Role of Pharmacist in Innovation, Discovery and Development of Biological Products and Biopharmaceuticals" organized by "Gurukula Kangri University", Haridwar, Uttarakhand, **INDIA**, September 2021 (**Topic: Role of Pharmacy Education in Drug Discovery and Development: Know your Brand as a Pharmacist**).

13. Resource Person at "Webinar Series – 6.O" organized by Sree Sastha Pharmacy College, Chennai, Tamilnadu, INDIA, July 2021 (**Topic: Role of Pharmacy Education in Drug Discovery and Development in the Present and Future: Know your Brand as a Pharmacist**).
14. Resource Person at the "Virtual International Conference on Pharma Industry 4.0" organized by "Chettinad School of Pharmaceutical Sciences", Chettinad Academy of Research and Education, Chennai, Tamilnadu, INDIA July 2021 (**Topic: Promising Nutritional Fruits against Cardiovascular Diseases: An Overview of Scientific Evidence and Understanding their Mechanism of Action**).
15. Invited Speaker in online "AICTE-sponsored "Short Term Training Programme on Molecular Neuroscience: From Cells to Circuits in Health Disease" Phase III: Pre-clinical and Clinical Aspects of Molecular Science" organized by "Seven Hills College of Pharmacy, Tirupati, Andhra Pradesh, INDIA, June 2021 (**Topic: Challenges and Opportunities in the Development of Natural Products for Neurodegenerative Disorders – A Road Map from Preclinical to Clinical Research**).
16. Invited Speaker in online "Virtual International Conference on Multidisciplinary Roles of Pharmacist from Benchside to Bedside and Beyond" organized by "Sathyabama Institute of Science & Technology", School of Pharmacy, Chennai, Tamilnadu, INDIA, June 2021 (**Topic: Know your Role as a Pharmacist in Drug Discovery and Development**).
17. Invited Speaker in online "International Conference on Cardiovascular Complications in Urban Society" organized by "Sri JJJT University", Rajasthan, INDIA, June 2021 (**Topic: Scientific Evidence on Nutritional Fruits Against Cardiovascular Diseases**).
18. Invited Speaker in online "International Conference on Advanced Research in Pharmaceutical Healthcare Sciences" organized by Dr. M.G.R Educational and Research Institute, Chennai, Tamilnadu, INDIA, June 2021 (**Topic: Drug Delivery of Natural Products in Brain for Neurodegenerative Disorders**).
19. Invited Speaker in online "International Conference on Basic Methodology for Pharmaceutical Research" organized by "Sathyabama Institute of Science & Technology", School of Pharmacy, Chennai, Tamilnadu, INDIA, June 2021. (**Topic: Present Vs Future Methodologies in Natural Products Research**).
20. Invited Speaker in "Virtual Seminar" organized by "Karpagam Academy of Higher Education", India, March 2021. (**Topic: Recent Developments and Applications of Natural Products-Based Nanoparticles towards Medicine**).
21. Invited Speaker in "MyCRS Seminar" organized by "Controlled Release Society - Malaysia Local Chapter", MALAYSIA, February 2021. (**Topic: Drug Delivery of Natural Products in Brain for Neurodegenerative Disorders**).
22. Invited Speaker in "International Webinar" organized by "Sree Balaji Medical College and Hospital Campus" Bharath Institute of Higher Education and Research, Chennai, Tamilnadu, INDIA, January 2021. (**Topic: Journey from Basic Research to Innovations in Natural Products**).
23. Invited Speaker in "International Conference of Health Sciences for Undergraduate students" organized by "School of Pharmacy Sree Balaji Vidyapeeth" Pondicherry,

INDIA, December 2020 (**Topic: How to Create Innovative Natural Products to make it Available to Public? A Road Map from Researcher to Entrepreneur**).

24. Invited Speaker in International eFDP on “Esoteric Essence of Pharmacy profession: A dynamic impact on health care system” in association with IPA – Education Division & IPGA Telangana Branch, organized by St. Pauls College of Pharmacy, Telangana, INDIA, November 2020 (**Topic: Innovations in Natural Products – Essential Role in Pharmacy Profession and its Impact on Health Care System**).
25. Invited Speaker in International Conference with the theme of “Innovations in Developing Phytopharmaceuticals from Indigenous Medicine” organized by Nirmala College of Pharmacy, Muvattupuzha, Kerala, INDIA, September 2020 (**Topic: Moving from Traditional Research to Innovative Natural Products for Sustainable Future and Developments**).
26. Invited Speaker in "International Faculty Development Programme (A Roadmap for Preclinical Research)" organized by "Chalapathi Institute of Pharmaceutical Sciences", Guntur, Andhra Pradesh, INDIA, September 2020 (**Topic: Creating Innovative Minds in Natural Products Research**).
27. Invited Speaker in "2nd Online International Multidisciplinary Conference" organized by "Sri JNT University", Rajasthan, INDIA, July 2020 (**Topic: Creating Innovative Minds in Natural Products**).
28. Invited Speaker in “44th International Virtual Learning Series” organized by Arulmigu Kalasalingam College of Pharmacy, Tamilnadu, INDIA, July 2020 (**Topic: Creating Innovative Minds in Natural Products**).
29. Invited Speaker in “International Webinar” organized by C.L. Baid Metha College of Pharmacy, Tamilnadu, INDIA, June 2020 (**Topic: Journey from Basic Research to Innovation in Natural Products**).
30. Invited Speaker in “International Webinar” organized by Nandha College of Pharmacy, Tamilnadu, INDIA, June 2020 (**Topic: Modern and Effective Methods in the Development of Natural Products**).
31. Invited Speaker in “International Faculty Development Programme” organized by MNR College of Pharmacy, Telangana, INDIA, May 2020 (**Topic: Challenges and Opportunities for Developing Safe and Effective Natural Products**).
32. Invited Speaker in “International Faculty Development Programme” organized by VELS University, Tamilnadu, INDIA, May 2020 (**Topic: Moving from Traditional Research to Innovative Natural Products for Sustainable Future and Developments**).
33. Invited Speaker in “International Webinar” organized by SNS College of Technology, Tamilnadu, INDIA, May 2020 (**Topic: Moving from Traditional Research to Innovative Products for Sustainable Future and Developments**).
34. Invited Speaker in “International Webinar” organized by Swamy Vivekanandha College of Pharmacy, Tamilnadu, INDIA, May 2020 (**Topic: Current Trends in Natural Products Research and Innovation**).

35. Invited Speaker in "International Faculty Development Programme" organized by Bapatla College of Pharmacy, Andhra, INDIA, May 2020 (**Topic: Moving from Traditional Research to Innovative Natural Products for Sustainable Future and Developments**).
36. Invited Speaker in "International Webinar" organized by NGM College, Tamilnadu, INDIA, May 2020 (**Topic: Recent Innovations in Herbal Cosmetics**).
37. Invited Speaker in "International Webinar" organized by Excel College of Pharmacy, Tamilnadu, INDIA, May 2020 (**Topic: Innovations in Natural based Cosmetics and Personal Care Products**).
38. Invited Speaker in "**National Scientific Seminar in Pharmacy and Health Sciences 2019 (NSPHS 2019)**" organized by "Universiti Kuala Lumpur" held in Hotel Syeun, Ipoh, MALAYSIA, September 2019 (**Topic: Natural Products in Aging Skin**).
39. Facilitator for "**Cosmetic Workshop 2.0**" Organized by UniKL-RCMP, December 2019.
40. Facilitator for "**Community Pharmacy Practice – Cosmetic Workshop – Series 1**" Organized by UniKL-RCMP, December 2018.
41. Guest Speaker for the 13th MyPSA National Gathering of Pharmacy Students 2018 (NoGAPS2018) and delivered lecture on "**Where do researchers begin their journey in Malaysia**", held on September 2018 at SEGi University, MALAYSIA.
42. Invited Speaker in "**International Conference of Pharmacy and Health Sciences 2016 (ICPHS 2016)**" organized by "Universiti Kuala Lumpur" held in Hotel Casuarina@Meru, Ipoh, MALAYSIA, March 2016. (**Topic: Green Chemistry – An Important Tool to Protect our Environment and Save our Future Generations**).

CONFERENCE PRESENTATIONS

1. Oral presentation in "11th Asean and 8th Perak Health Conference on Primary Health Care" organized by Perak Medical Practitioner's Society held in Hotel Casuarina@Meru, Ipoh, Malaysia, June 2019.
2. Oral presentation in "International Conference of Pharmacy and Health Sciences 2018 (ICPHS 2018)" organized by "Universiti Kuala Lumpur" held in Hotel Casuarina@Meru, Ipoh, Malaysia, September 2018.
3. Oral presentation in EET-CRS Conference Series-9 organized by Education Expo TV - Companies Rating System (EET-CRS) held at Hotel Monotel, Kolkata, India, July 2018.
4. Oral presentation in "10th Asean and 7th Perak Health Conference on Primary Health Care" organized by Perak Medical Practitioner's Society held in Hotel Kinta Riverfront, Ipoh, Malaysia, July 2017.
5. Oral presentation in "8th Asean Conference on Primary Health Care" organized by Perak Medical Practitioner's Society held in Hotel Kinta Riverfront, Ipoh, Malaysia, June 2013.

6. Oral presentation in “International Conference of Nursing, Pharmacy and Health Sciences 2013” organized by “KPJ Healthcare University College” held in Hotel Istana, Kuala Lumpur, Malaysia, March 2013.
7. Poster presentation in “First International Conference on Tropical Medicine and Infectious Diseases” organized by “Universiti Kuala Lumpur” held in Hotel Impiana, Ipoh, Malaysia, December 2012.
8. Oral presentation in “First International Conference on Nutraceutical and Cosmetic Sciences (ICNaCS) 2012” organised by “Universiti Teknologi MARA” held in Hotel Istana, Kuala Lumpur, Malaysia, October 2012.
9. Poster presentation in “Second International Conference and Indo-canadian Satellite Symposium” on “Pharmaceutical Sciences, Technology, Practice and Natural Health Products” held in JSS College of Pharmacy, Ooty, India, February 2007.

SCIENTIFIC CONTRIBUTIONS

1. Judge for MyPSA National Pharmacy Debate Competition (NPDC) 2022 at UniKL-RCMP, October 2022.
2. Judge for MyPSA National Pharmacy Competition – Pharmacy Quiz Challenge 2022 at AIMST University, April 2022.
3. Judge for MyPSA National Pharmacy Compounding Challenge 2021 at UniKL, May 2021.
4. Head of Scientific and Publication Committee in National Scientific Seminar in Pharmacy and Health Sciences 2019 (NSPHS 2019).
5. Judge for MyPSA National Pharmacy Quiz Competition 2019 at UiTM, April 2019.
6. Judge for MyPSA National Pharmacy Research Competition 2019 at AIMST University, March 2019.
7. Head of Publication Committee in “Second International Conference of Pharmacy and Health Sciences 2018 (ICPHS 2018)” Organized by UniKL-RCMP, September 2018.
8. Judge for MyPSA National Pharmacy Quiz Competition 2018 at UKM, April 2018.
9. Head of Publication Committee in First International Conference of Pharmacy and Health Sciences 2016 (ICPHS 2016), Organized by UniKL-RCMP, March 2016.
10. Chairperson of Scientific Session in International Conference of Pharmacy and Health Sciences 2016 (ICPHS 2016), Organized by UniKL-RCMP, March 2016.
11. Judge for MyPSA National Pharmacy Quiz Competition 2016 at IIUM, May 2016.
12. Judge for MyPSA National Pharmacy Quiz Competition 2015 at CUCUMS, April 2015.

13. Editor, Guest Editor & Editorial Board Member

Guest Editor

Metabolites – Special issue titled "Current Progress and Future Trends of Metabolomics in Food and Pharmaceutical Sciences".

https://www.mdpi.com/journal/metabolites/special_issues/PKY8DMQ81C

Editorial Board Member

Pre-Clinical Research; International Journal of Pharmaceutics and Drug Analysis; "International Journal of Green Pharmacy (IJGP)"; "International Journal of Medical Science and Diagnostic Research (IJMSDR)"; "International Journal of Dental Science and Innovative Research (IJD SIR)".

14. Reviewer for Refereed Journals (WoS and Scopus) in International Standings (J-6945-2016, Web of Science (Previously known as Publons) > 400 Papers

In 2022 (109 Manuscripts Served as a Reviewer)

International Journal of Molecular Sciences (2 Papers); Toxins (2 Papers); Journal of Enzyme Inhibition and Medicinal Chemistry (1 Paper); Biology Letters (2 Papers); International Journal of Immunopathology and Pharmacology (1 Paper); Nutrients (1 Paper); Polymers (1 Paper); Frontiers in Clinical Diabetes and Healthcare (1 Paper); Journal of Experimental Pharmacology (1 Paper); Pathogens (2 Papers); Bioengineering (2 Papers); Current Topics in Medicinal Chemistry (1 Paper); Endocrine, Metabolic & Immune Disorders-Drug Targets (1 Paper); Food & Function (1 Paper); Journal of Inflammation Research (1 Paper); Analytical Biochemistry (1 Paper); Molecules (37 Papers); Cancers (2 Papers); Philippine Journal of Science (1 Paper); Journal of Clinical pharmacy & Therapeutics (1 Paper); Cancers (1 Paper); Journal of Oncology (10 Papers); Phytomedicine Plus (5 Papers); Philippine Journal of Science (1 Paper); Industrial Crops and Products (1 Paper); Journal of Cosmetic Dermatology (3 Papers); Allergologia et Immunopathologia (1 Paper); Pre-Clinical Research (1 Paper); Journal of Clinical Medicine (2 Paper); Brain Sciences (2 Papers); Quality Assurance and Safety of Crops & Foods (2 Papers); Analytical Biochemistry (1 Paper); Journal of Ayurveda and Integrative Medicine (1 Paper); International Journal of Dermatology and Venereology (1 Paper); Pharmaceuticals (1 Papers); Indian Journal of Pharmaceutical Sciences (1 Paper); Science of the Total Environment (2 Papers); BioMed Research International (2 Papers); Processes (2 Papers); European Journal of Lipid Science and Technology (1 Paper); Journal of Microbiology, Biotechnology and Food Sciences (1 Paper); Sustainability (1 Paper); Cancer Investigation (1 Paper); Evidence-based Complementary and Alternative Medicine (1 Paper).

In 2021 (53 Manuscripts Served as a Reviewer)

Journal of Oncology (11 Papers); Sustainability (1 paper); Polymers (1 Paper); Materials (1 Paper); ACS-Food Science and Technology (1 Paper); Applied Physiology, Nutrition and Metabolism (1 Paper); Quality Assurance and Safety of Crops & Foods (7 Papers); Allergologia et Immunopathologia (2 Papers); Phytom-International Journal of Experimental Botany (2 Papers); Biointerface Research in Applied Chemistry (1 Paper); Gene Reports (1 Paper); Saudi Journal of Biological Sciences (2 Papers); Journal of microbiology, biotechnology and food sciences (1 Paper); Arabian Journal of Chemistry (1 Paper); Journal of Pharmaceutical Research International (1 Paper); Frontiers in Clinical Drug Research – Diabetes and Obesity (8 Papers); Journal of Scientific and Applied Chemistry (1 Paper), Bulletin of Pharmaceutical Sciences Assiut (1 Paper); Current Research in Nutrition and Food Science Journal (1 Paper); Jurnal Kimia Sains Dan Aplikasi (1 Paper); Journal of

Reports in Pharmaceutical Sciences (1 Paper); Journal of Cosmetic Dermatology (1 Paper).

In 2020 (33 Manuscripts Served as a Reviewer)

Phytochemistry (2 Papers); Medical Hypotheses (2 Papers); Brazilian Journal of Pharmaceutical Sciences (1 Paper); Pharmacogony Journal (5 Papers); Borneo Journal of Pharmacy (5 Papers); Coronaviruses (8 Papers); Plastic and Aesthetic Research (1 Paper); Current Molecular Pharmacology (1 Paper); Current Bioactive Compounds (1 Paper); Mini-Reviews in Medicinal Chemistry (2 Papers); Journal of Essential Oil Bearing Plants (2 Papers); Natural Product Research (1 Paper); Advancement in Medicinal Plant Research (1 Paper); COJ-Biomedical Science & Research (1 Paper).

Until 2019 (200+ Manuscripts Served as a Reviewer)

Journal of Pharmaceutical Research International (20 Papers); International Journal of Biochemistry Research & Review (11 Papers); European Journal of Medicinal Plants (10 Papers); Journal of Advances in Microbiology (10 Papers); Journal of Advances in Medicine and Medical Research (9 papers); Microbiology Research Journal International (9 Papers); Journal of Complementary and Alternative Medical Research (8 Papers); Current Journal of Applied Science and Technology (7 Papers); Asian Journal of Applied Chemistry Research (5 Papers); International Journal of Tropical Disease and Health (6 Papers); Journal of Applied Life Sciences International (6 Papers); South Asian Journal of Research in Microbiology (6 Papers); Asian Journal of Research in Medical and Pharmaceutical Sciences (4 Papers); Journal of Experimental Agriculture International (5 Papers); Annual Research & Review in Biology (4 Papers); Journal of Advances in Medical and Pharmaceutical Sciences (4 Papers); International Journal of Pathogen Research (4 papers); Pharmacognosy Journal (4 Papers); Archives of Current Research International (3 Papers); Asian Food Science Journal (3 Papers); Asian Journal of Medicine and Health (3 Papers); Asian Journal of Research in Botany (2 Papers); Asian Journal of Chemical Sciences (2 Papers); International Research Journal of Pure and Applied Chemistry (2 Papers); Asian Journal of Medical Principles and Clinical Practice (2 Papers); Biotechnology Journal International (2 Papers); Asian Journal of Biochemistry, Genetics and Molecular Biology (1 Paper); Asian Journal of Research in Biochemistry (1 Paper); Asian Plant Research Journal (1 Paper); South Asian Research Journal of Natural Products (1 Paper); Advancement in Medicinal Plant Research (1 Paper); Asian Hematology Research Journal (1 Paper); Asian Journal of Advanced Research and Reports (1 Paper); Asian Journal of Advances in Agricultural Research (1 Paper); Asian Journal of Biotechnology and Bioresource Technology (1 Paper); Asian Journal of Biotechnology and Genetic Engineering (1 Paper); Asian Journal of Cardiology Research (1 Paper); Asian Journal of Environment & Ecology (1 Paper); Asian Journal of Immunology (1 Paper); Asian Journal of Research and Reports in Endocrinology (1 Paper); Asian Journal of Research in Infectious Diseases (1 Paper); Asian Research Journal of Gynaecology and Obstetrics (1 Paper); Cardiology and Angiology: An International Journal (1 Paper); Chemical Science International Journal (1 Paper); Evidence-based Complementary and Alternative Medicine (1 Paper); Hortscience (1 Paper); Industrial Crops and Products (1 Paper); International Journal of Advances in Nephrology Research (1 Paper); International Journal of Medical and Pharmaceutical Case Reports (1 Paper); International Journal of Plant & Soil Science (1 Paper); International Journal of Research and Reports in Hematology (1 Paper); Journal of Advances in Biology & Biotechnology (1 Paper); Journal of Cancer and Tumor International (1 Paper); Journal of Engineering Research and Reports (1 Paper); Journal of Heterocyclic Chemistry (1 Paper); Journal of Materials Science Research

and Reviews (1 Paper); Journal of Cosmetic Dermatology(1 Paper); IET Nanobiotechnology (1 Paper).

SELECTED SEMINARS, TRAININGS AND WORKSHOPS

1. Participated “Colored Brain Training” organized by UniKL Royal College of Medicine Perak, held at Hotel Trevelodge, Ipoh, Malaysia in July 2022.
2. Participated “Flipped Classroom Training” organized by organized by UniKL Royal College of Medicine Perak, held at Hotel Casuarina, Meru, Ipoh, Malaysia in November 2021.
3. Participated “Intermediate Level of Statistical Analysis Using SPSS” organized by UniKL Royal College of Medicine Perak, held at Ipoh, Malaysia in August 2021.
4. Participated “Research Methodology and Proposal Writing Workshop” organized by UniKL Royal College of Medicine Perak, held at Cameron Highlands, Malaysia in September 2020.
5. Participated workshop on “Structural Equation Modelling (SEM) using AMOS” organized by UniKL Royal College of Medicine Perak, held at Ipoh, Malaysia in February 2020.
6. Participated “Laboratory Animal Training Programme” organized by “Animal Research and Service Centre (ARASC)” Universiti Sains Malaysia, held at Penang, Malaysia in February 2020.
7. Participated Seminar on “Working Safely with Hazardous Drugs and Radiopharmaceuticals” organized by UniKL Royal College of Medicine Perak, held at Ipoh, Malaysia in October 2019.
8. Participated Training on “Turnitin” organized by Access Dunia Sdn Bhd held at Universiti Kuala Lumpur, held at Kuala Lumpur, Malaysia in June 2019.
9. Participated Seminar on “New Horizons in Particle Analysis” organized by Anton Parr Malaysia, held at Weil Hotel, Ipoh, Malaysia in April 2019.
10. Participated Training on “Shimadzu UV-Visible Spectrophotometer” organized by UniKL Royal College of Medicine Perak, held at Ipoh, Malaysia in March 2019.
11. Participated Workshop on “How to Write a Research Paper - A Quick and Simplified Approach for Researchers” organized by UniKL Royal College of Medicine Perak, held at Ipoh, Malaysia in February 2019.
12. Participated Workshop and Training on “FT-IR Spectroscopy, Thermal Analysis & Particle Size Analysis” organized by UniKL Royal College of Medicine Perak, held at Ipoh, Malaysia in February 2019.
13. Participated Workshop on “Update on Smoking Cessation – Case Studies” organized by “Universiti Kuala Lumpur”, held at Ipoh, Malaysia in September 2018.
14. Participated Faculty Development Workshop "Create Your Own E-Portfolio" Organized by UniKL Royal College of Medicine Perak, held at Ipoh, Malaysia in July 2018.

15. Participated workshop on “How to Optimize Separation on Flash Chromatography” organized by “BUCHI Malaysia Sdn Bhd”, held at Ipoh, Malaysia in March 2018.
16. Participated in “FPHS Five Years Planning and Staff Development Workshop” organized by “Universiti Kuala Lumpur-Royal College of Medicine Perak”, held at Ipoh, Malaysia in March 2017.
17. Participated in “Mentoring Workshop: Train the Facilitators” organized by “Universiti Kuala Lumpur-Royal College of Medicine Perak”, held at Ipoh, Malaysia in November 2016.
18. Participated in “Operational Training on Rheometer and its Applications” at Research Lab, FPHS Tasek Premise, organized by “Universiti Kuala Lumpur-Royal College of Medicine Perak”, held at Ipoh, Malaysia in August 2016.
19. Participated in “Operational Training on HPLC” at Research Lab, FPHS Tasek Premise, organized by “Universiti Kuala Lumpur-Royal College of Medicine Perak”, held at Ipoh, Malaysia in August 2016.
20. Participated “PANOPTO Software” Training organized by Faculty of Medicine, UniKL-RCMP, held at IT lab, UniKL-RCMP, Ipoh, Malaysia in August 2016.
21. Participated “SPSS Software” Training organized by Faculty of Medicine, UniKL-RCMP, held at IT lab, UniKL-RCMP, Ipoh, Malaysia in August 2016.
22. Participated workshop on “Procedures and Preparation of Patent Document” organized by Intellectual Property Corporation of Malaysia (MYIPO), held at UniKL MIMET, Lumut, Perak, Malaysia in April 2016.
23. Participated OBE workshop organized by Performance & Capability Development, Group PMTC & Center for Instructional Technology and Curriculum Development (CITC), held at UniKL-RCMP, Ipoh, Malaysia in April 2016.
24. Participated mini seminar on “Academic Publication and Journal Publishing” organized by UniKL, held at UniKL Library, City Campus, UniKL, Malaysia, March 2016.
25. Participated OSPE/OSCE workshop organized by UniKL-RCMP, held at UniKL-RCMP, Ipoh, Malaysia in December 2015.
26. Participated in “Operational Training on HPTLC” at Research Lab, FPHS Tasek Premise, organized by “Universiti Kuala Lumpur-Royal College of Medicine Perak”, September 2015.
27. Participated Pedagogy Training 1, 2, 3 and 4 (OBE workshop) organized by UniKL, held at Hotel Casuarina, Meru, Ipoh, Malaysia, June & August 2015.
28. Participated Training on “How to Supervise Postgraduate Students” organized by “Institute of Postgraduate Studies, Universiti Kuala Lumpur” held in Universiti Kuala Lumpur city campus, Kuala Lumpur, Malaysia, December 2014.
29. Participated Seminar on Academic Publication “How to Get Your Research Published” organized by “Universiti Kuala Lumpur” held in Universiti Kuala Lumpur city campus, Kuala Lumpur, Malaysia, May 2014.

30. Participated in "Operational Training on HPLC" organized by "Universiti Kuala Lumpur, Royal College of Medicine Perak", March 2014.
31. Participated workshop in "Assessment and Evaluation Skills" organized by "Universiti Kuala Lumpur, Royal College of Medicine Perak" held in "Universiti Kuala Lumpur, Royal College of Medicine Perak", Ipoh, Malaysia, November 2013.
32. Participated "Problem Based Learning Training for Facilitators" organized by "Universiti Kuala Lumpur, Royal College of Medicine Perak" held in Kinta Riverfront Hotel, Ipoh, Malaysia, July 2013.
33. Participated workshop in "Key Performance Indicator/Job Description and Problem Based Learning" organized by "Universiti Kuala Lumpur, Royal College of Medicine Perak" held in Equatorial Cameron Highlands, Malaysia, May 2013.
34. Participated in "Dialogue with the Malaysia Pharmacy Board Secretary on the New Pharmacy Bill" held in Hotel Impiana, Ipoh, Malaysia, March 2013.
35. Participated workshop in "Continuous Quality Improvement (CQI)" organized by "Universiti Kuala Lumpur, Royal College of Medicine Perak" held in Universiti Kuala Lumpur, Royal College of Medicine Perak, Malaysia, March 2013.
36. Participated Workshop on "Outcome Base Education Assessment and Continuous Quality Improvement (CQI)" held in UniKL, Royal College of Medicine Perak, Ipoh, Malaysia, July 2012.
37. Participated Workshop on "Basics Techniques in Experimental Pharmacology and Molecular Biology" held in Sree Siddaganga College of Pharmacy, Tumkur, India, September 2010.
38. Participated and Presented Poster on "SAIF Bangalore Users One Day Meeting" held in NMR Research Centre, IISc, Bangalore, India, March 2010.
39. Participated Seminar on "Scientific Writing and Publication" held in JSS University, Mysore, India, December 2009.
40. Participated and presented a poster in International Seminar on "Herbal Drug Research: Present and Future Prospects" held in JSS College of Pharmacy, Ooty, India, December 2009.
41. Participated AICTE Sponsored Staff Development Programme on Pharmaceutical Chemistry-Green Technologies and Effective teaching Aids" held in Sree Siddaganga College of Pharmacy, Tumkur, India, October 2009.
42. Participated AICTE Sponsored Workshop on "Writing and Communication Skills for Biomedical Media" held in Sree Siddaganga College of Pharmacy, Tumkur, India, September 2009.
43. Participated on the state level workshop on "Identification of Phytochemicals Using Spectroscopic Techniques" held in Karpagam University, Coimbatore, India, March 2009.
44. Participated National level Seminar on "Trends in Pharmaceutical Sciences, Practice and Education" held in JSS College of Pharmacy, Ooty, India, May 2008.

45. Participated National Seminar on “The Art of Scientific writing” held in KMCH College of Pharmacy, Coimbatore, India, April 2008.
46. Participated Quality Improvement Programme on “Modern Trends in Pharmaceutical Chemistry” held in JSS College of Pharmacy, Ooty, India, February 2006.
47. Participated 55th “Indian Pharmaceutical Congress” held in Chennai, India, December 2003.
48. Participated “International Congress of Indian Pharmacy Graduates 2003” held in Annamalai University, Cudallore, India, November 2003.

TECHNICAL SKILLS & EXPERTISE SUMMARY

1. Experienced in Extraction and Isolation of Active Constituents from Medicinal Plants.
2. Experienced in Synthesis and Purification of Organic Compounds.
3. Various Characterization and Interpretation Techniques of UV-Visible, IR, 1D and 2D NMR, Mass Spectrum etc. for the Isolated and Synthesized Compounds.
4. Formulation and Evaluation of Cosmeceuticals and Nutraceuticals.
5. Conduct all *In Vivo* Experiments/Protocols and Surgical Techniques.
6. Animal handling (Rat, Mouse, Rabbit, and Guinea pigs) and trained in route of administration (Oral, Intraperitoneal and Intramuscular dosing).
7. Blood Collection by Retro Orbital Plexus, Cardiac Puncture & by Tail Vein.
8. Biochemical & Tissue Homogenization Estimations & Statistical Analysis.

EVALUATOR AND EXAMINER OF DOCTORATE THESIS

PhD Thesis – 20

1. Examiner of PhD thesis entitled “Phytopharmaceutical evaluation of polyherbal formulation for type II diabetes mellitus” from the Vels Institute of Science, Technology & Advanced Studies (VISTAS), India (July 2023)
2. Examiner of PhD thesis entitled “Controlled Delivery of Tinidazole from Intra-Vaginal Polymer Matrices for The Treatment of Bacterial Vaginosis” from the International Medical University, Malaysia (April 2023).
3. Examiner of PhD thesis entitled “Formulation and Evaluation of In Situ Nanoemulsion Gel Containing Buspirone for Brain Targeting via Nasal Route” from the Dr. APJ Abdul Kalam Technical University Uttar Pradesh, India (April 2023).
4. Examiner of PhD thesis entitled "Cognitive Enhancement and Neuroprotective Effects of Selected Medicinal Plants in Alzheimer's Disease Model" from the Vinayaka Mission's Research Foundation, Salem, India (March 2023).

5. Examiner of PhD thesis entitled Design, Synthesis and Characterization of Sulphur Containing Heterocycles and their Chalcones for Possible Pharmacological Screening from the Vinayaka Mission's Research Foundation, Salem, India (March 2023).
6. Examiner of PhD thesis entitled "Studies on the Modulatory Role of Phytochemicals against Cardiac Hypertrophy and Myocardial Fibrosis" from the National Institute of Pharmaceutical Education and Research (NIPER), Guwahati, India (August 2022).
7. Examiner of PhD thesis entitled "Synthesis and Pharmacological Evaluation of Some Novel Heterocyclic Compounds Via Chalcone Derivatives" from the NITTE (Deemed to be University), Mangaluru, India (June 2022).
8. Examiner of PhD thesis entitled "Environmentally Benign Method Development and Validation of Creams and Ointments Using UV Spectrophotometry and AQBd Based LC Methods" from the SRM Institute of science and Technology, Chennai, India (May 2022).
9. Examiner of PhD thesis entitled "Clinical Investigation on Effects of Thyroid Replacement Monotherapy and Combination Therapy in Hypothyroidism Patients" from the Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur, India (April 2022).
10. Examiner of PhD thesis entitled "Clinical Evaluation of Thetran Vidhai Kudineer in Neerizhivu (Diabetes Mellitus Type-2)" from the Tamilnadu Dr. MGR Medical University, Chennai, Tamilnadu, India (January 2022).
11. Examiner of PhD thesis entitled "Neuroprotective Effects of Ellagic Acid, Rutin and p-Coumaric Acid on *In-Vivo* and *In-Vitro* Models of Diabetic Neuropathy" from Universiti Kuala Lumpur, Malaysia (October 2021).
12. Examiner of PhD thesis entitled "Isolation and Identification of Phytoconstituents from *Cyanthillium cinereum* (L) H. Rob and a Study of its Biological Activity" from Karpagam Academy of Higher Education, Coimbatore, Tamilnadu, India (July 2021).
13. Examiner of PhD thesis entitled "Forced degradation studies and genotoxic evaluation of the degraded products from anti diabetic drugs" from JSS Academy of Higher Education and Research, Mysore, Karnataka, India (May 2021).
14. Examiner of PhD thesis entitled "Self-Reported Adherence, Management Behavior, and Barriers to Care after Hospital Visit of Children with Asthma in South India" from PRIST University, Thanjavur, Tamilnadu, India (April 2021).
15. Examiner of PhD thesis entitled "Isolation, Characterization and Genotoxicity Evaluation of the Degraded Products from Anti Retro Viral Agents" from JSS Academy of Higher Education and Research, India (April 2020).
16. Examiner of Ph.D thesis entitled "Evaluation of the Neuroprotective Effect of Dasatinib and its Combination with Resveratrol in Experimental Models of Parkinsonism" from JSS Academy of Higher Education and Research, India (June 2019).
17. Examiner of Ph.D thesis entitled "Standardization of Irula Pambukadi Choornam and its Pharmacological Evaluation with Indian Russell's Viper Venom" from Government Arts College, Udhagamandalam, Tamilnadu, India (February 2018).

18. Examiner of Ph.D thesis entitled “Novel Applications of LC-MS/MS Methods in Pharmacokinetic Metabolism Studies” from PRIST University, Thanjavur, Tamilnadu, India (June 2016).
19. Examiner of Ph.D thesis entitled “Compatibility Validation of Analytical Methods for Pharmaceutical Dosage Forms by Different Spectroscopic and Chromatographic Technique” from Presidency College, University of Madras, Chennai, India (September 2014).
20. Examiner of Ph.D thesis entitled “Biological Evaluation of Traditional Formula Used in the Treatment of Seasonal Infections” from PRIST University, Thanjavur, Tamilnadu, India (March 2014).

GRADUATE RESEARCH SUPERVISIONS

S. No	Student Name	Course	Main/Co-Supervisor	University	Reg. Year	Current Status
1	Lum Pei Teng	PhD in Pharmacy	Supervisor	Universiti Kuala Lumpur, Malaysia.	2019	Awarded in 2023
2	Siti Nurul Najiha Othman	MSc in Pharmacy	Supervisor	Universiti Kuala Lumpur, Malaysia.	2019	Awarded in 2023
3	Muhammad Fattah Fazel	PhD in Pharmacy	Co-Supervisor	Universiti Kuala Lumpur, Malaysia.	2020	Writing Thesis
4	Mogana Govendan	PhD in Pharmacy	Co-Supervisor	Universiti Kuala Lumpur, Malaysia.	2021	Ongoing
5	Mohd Nasarudin Watroly	PhD in Pharmacy	Co-Supervisor	Universiti Kuala Lumpur, Malaysia.	2020	Ongoing
6	Hikmah Mohamad Idi	MSc in Pharmacy	Co-Supervisor	Universiti Kuala Lumpur, Malaysia.	2021	Ongoing
7	Noor Diyana Ibrahim	MSc in Pharmacy	Co-Supervisor	Universiti Kuala Lumpur, Malaysia.	2019	Submitted Thesis in 2023
8	Shazalyana Azman	Master of Engineering Technology (Chemical Engineering)	Co-Supervisor	Universiti Kuala Lumpur, Malaysia.	2018	Awarded in 2021

RESEARCH PROJECT SUPERVISIONS

Project Title	Level of Study	Category of Supervision	Year
Evaluation of Neuroprotective Mechanism of Karanjin Isolated from <i>Pongamia pinnata</i> (L.) Pierre Seeds.	PhD in Pharmacy	Co-supervisor	Ongoing
Neuroprotective Mechanism of Mangiferin against 3-Nitropropionic Acid Induced Huntington's Disease in Rats.	PhD in Pharmacy	Main supervisor	2023

Protective Mechanism of Embelin against Cyclophosphamide-Induced Cardiotoxicity in Rats.	Master of Pharmacy	Main supervisor	2022
Effect of Embelin on Severe Airway Inflammation of Allergic Asthma in Experimental Animals.	Master of Pharmacy	Co-supervisor	2021
Evaluation of Synergistic Antioxidant Activity of Curcumin with Karanjin.	Bachelor of Pharmacy	Main supervisor	2021
Synthesis, Physicochemical Characterization and Biological Properties of Novel Cu(II) Complex of Natural Embelin.	Bachelor of Pharmacy	Main supervisor	2021
Evaluation of Combined Antibacterial Activity of Curcumin with Mangiferin	Bachelor of Pharmacy	Main supervisor	2021
Resveratrol: Latest Scientific Evidences of its Chemical, Biological Activities and Therapeutic Potentials.	Bachelor of Pharmacy	Main supervisor	2020
Lutein: A Comprehensive Review on its Chemical, Biological Activities and Therapeutic Potentials.	Bachelor of Pharmacy	Main supervisor	2020
Swertiamarin: A Comprehensive Review on its Chemical, Pharmacological Activities and Therapeutic Potentials.	Bachelor of Pharmacy	Main supervisor	2020
<i>In-vitro</i> Antioxidant and Cytotoxic Activities of Embelin Loaded <i>N,O</i> -Carboxymethyl Chitosan Nanoparticles.	Bachelor of Pharmacy	Main supervisor	2019
Combinatory Effect of Embelin with Antibiotics against Human Pathogens.	Bachelor of Pharmacy	Main supervisor	2019
Synergistic Antibacterial Activity of Mangiferin with Antibiotics against Human Pathogens.	Bachelor of Pharmacy	Main supervisor	2019
<i>In-vitro</i> Antioxidant and Cytotoxic Activities of Mangiferin Loaded <i>N,O</i> -Carboxymethyl Chitosan Nanoparticles.	Bachelor of Pharmacy	Main supervisor	2019
<i>In-vitro</i> Antioxidant and Cytotoxic Activities of Silver Nanoparticles of Embelin.	Bachelor of Pharmacy	Main supervisor	2018
<i>In-vitro</i> Antioxidant and Cytotoxic Activities of Silver Nanoparticles of Mangiferin.	Bachelor of Pharmacy	Main supervisor	2018
Formulation and Evaluation of Embelin Emulgel for Topical Delivery.	Bachelor of Pharmacy	Main supervisor	2018
Formulation and Evaluation of Antibacterial Ointment Containing Embelin from <i>Embelia</i>	Bachelor of Pharmacy	Main supervisor	2018

<i>ribes</i> .			
Mangiferin Reagent – A Novel Technique to Visualize Latent Bloodstain in Crime Scene.	Bachelor of Pharmacy	Main supervisor	2018
Formulation and Evaluation of Novel Antiaging Cream Containing Mangiferin.	Bachelor of Pharmacy	Co-supervisor	2018
Formulation and Evaluation of Novel Anti-Acne Cream Containing <i>Syzygium samarangense</i> Fruits Extract.	Bachelor of Pharmacy	Main supervisor	2017
Development of New Technique for Visualization of Latent Fingerprints on various surface – A Green and Effective Approach in Crime Scene.	Bachelor of Pharmacy	Main supervisor	2017
Formulation and Evaluation of Novel Mosquito Repellent Liquid Containing Natural Source to Prevent Dengue Mosquitoes.	Bachelor of Pharmacy	Main supervisor	2017
Formulation and Evaluation of Novel Anti-Inflammatory Cream Containing <i>Muntingia calabura</i> leaves Extract.	Bachelor of Pharmacy	Main supervisor	2017
Formulation and Evaluation of Novel Ultrasound Gel for Physiotherapy Treatment.	Bachelor of Pharmacy	Main supervisor	2017
Formulation and Evaluation of Novel Antiaging Cream Containing Rambutan Fruits Extract.	Bachelor of Pharmacy	Main supervisor	2016
Formulation and Evaluation of Herbal Shampoo Containing Rambutan Leaves Extract.	Bachelor of Pharmacy	Main supervisor	2016
Formulation, Evaluation and Antibacterial Properties of Herbal Ointment Containing Methanolic Extract of <i>Clinacanthus nutans</i> Leaves.	Bachelor of Pharmacy	Main supervisor	2016
Formulation, Evaluation and Antibacterial Properties of Novel Polyherbal Toothpaste for Oral Care.	Bachelor of Pharmacy	Main supervisor	2016
Formulation, Evaluation and Antimicrobial Properties of Polyherbal Toothpaste.	Bachelor of Pharmacy	Main supervisor	2016
Comparative Evaluation of Antioxidant Properties of Methanolic Extract of Red and Green Custard Apple Fruits.	Diploma in Pharmacy	Main supervisor	2014
Antibacterial Activity of the Methanolic Extract of <i>Hibiscus sabdariffa</i> Leaves and Fruits.	Diploma in Pharmacy	Main supervisor	2014
Ten Commonly Available Medicinal Plants in Malaysia Used for the Treatment of Diabetes –	Diploma in Pharmacy	Main supervisor	2013

A Review.			
Comparative Evaluation of Antimicrobial Properties of Citrus Varieties Available in Malaysia Market.	Diploma in Pharmacy	Main supervisor	2013
Isolation and Characterization of Mucilage from Durian and Rambutan Seeds.	Diploma in Pharmacy	Main supervisor	2012
Comparative Antioxidant Properties of Methanolic Extract of Red and White Dragon Fruits.	Diploma in Pharmacy	Main supervisor	2012

R E F E R E E S

Dr. Siew Hua Gan Professor & Head of School School of Pharmacy Monash University Malaysia, Bandar Sunway, Selangor, Malaysia. H/P: +60-129859830 Email: gan.siewhua@monash.edu	Dr. Geetha Saravanan Professor Department of Pharmaceutical Chemistry Abirami College of Pharmacy, Coimbatore, Tamilnadu, India. H/P: +91-9629842539 Email: saranblue69@gmail.com
Dr. Ahmad Fuad Shamsuddin Professor and Dean Faculty of Pharmacy and Health Sciences University Kuala Lumpur Royal College of Medicine Perak Ipoh, Malaysia. H/P: +60193324943 Email: fuad.shamsuddin@unikl.edu.my	Dr. Shrishailappa Badami Proprietor Chaitanya Vikas Yoga & Nature Cure Centre Rajatgiri, Dharwad, Karnataka, India. H/P: +91-9480640182 Email: shribadami@rediffmail.com