

Personal Details	SUNDRAM A/L M. KARUPIAH
Academic Qualifications	BSc (Hons) (USM), MSc (Pharmacy)(USM), PhD (Pharmaceutical Chemistry) (USM)
Administrative Duties	Deputy Dean (Postgraduate, Research & Administration), Deputy Chairman, AIMST ACADEMIC QUALITY ASSURANCE AND CURRICULUM COMMITTEE
Publications (last 5 years)	<p>Publication</p> <ol style="list-style-type: none"> Sundram Karupiah and Zhari Ismail (2015). Anti-obesity Effects of <i>Melastomamalabathricum</i> var Alba Linn in Rats Fed With a High Fat Diet. <i>AAPS PharmSciTech</i>16(3), 548-553. DOI:10.1208/s12249-014-0245-1 (Impact Factor: 1.641). Pitchai Balakumar, Rajavel Varatharajan, Ying Hui Nyo, Raja Renushia, Devarajan Raaginey, Ann Nah Oh, Shaikh Sohrab Akhtar, Mani Rupeshkumar, Karupiah Sundram, Sokkalingam A. Dhanaraj (2014). <i>Fenofibrate and dipyridamole treatments in low-doses either alone or in combination blunted the development of nephropathy in diabetic rats</i>. <i>Pharmacological Research</i>, 90, 36-47. (Impact Factor: 4.408). Sundram,K., Malini,M., Wong,K.L. and Bhore,S.J. (2014). Identification and characterization of bacterial endophytes isolated from pharmaceutically important <i>Pereskia bleo</i> (Kunth) DC. Total number of nucleotide is 10 (mRNA, DNA, 16S rRNA) sequences deposited in nucleotide database and published online through <i>Gene Bank</i> (http://www.ncbi.nlm.nih.gov/nuccore/?term=sundram%2C+aimst) Syed Vakiloddin, Neeraj Fuloria, Shivkanya Fuloria, Sokkalingam Arumugam Dhanaraj, Kaveti Balaji and Sundram Karupiah (2015). Evidences of hepatoprotective and antioxidant effect of <i>Citrullus colocynthis</i> fruits in paracetamol induced hepatotoxicity.<i>Pakistan Journal Pharmaceutical Sciences</i>. Vol.28, No.3, 951-957 (Impact Factor: 0.682). Sridevi Chigurupati, Neeraj Kumar Fuloria, Shivkanya Fuloria, Sundram Karupiah, Ravichandran Veerasamy, Appala Raju Nemala, Lim Jun Yi, Ang xiang Ilan and Syed Adnan Ali Shah (2016). Synthesis and antibacterial profile of novel azomethine derivatives of β-phenylacrolein moiety. <i>Tropical Journal of Pharmaceutical Research</i>, 15(4): 821-826 (Impact Factor: 0.589) P.Balakumar, S.Prajapati, R.Varatharajan, SA Jayachristy, K Sundram, MB Bahari (2015).Differential Effects of Pre and Post Treatments with Low-Dose Dipyridamole in minoglycoside-Induced Nephrotoxicity in Rats. <i>Malaysian Journal of Pharmacy</i>, 2(1), 78 (conference proceeding). NK Fuloria, S Fuloria, K Balaji, K Sundram (2015). Evidences of Antitubercular Potential of Novel Thiazolidinone Derivatives Bearing Chloroxylenol Moiety. <i>Malaysian Journal of Pharmacy</i>, 2(1), 70 (conference proceeding). Shivkanya Fuloria, Neeraj K. Fuloria, Kaveti Balaji, Sundram Karupiah, Kathiresan Sathasivam, Ajay Jain, Ugrappa Sridevi, Malipeddi Himaja (2016). Synthesis and discerning of antimicrobial potentialof new azomethines derived from chloroxylenol. <i>Indian Journal of Heterocyclic Chemistry</i>, 26(01 & 02), 095-099. (Impact Factor: 0.305) Neeraj K. Fuloria, Shivkanya Fuloria, Kaveti Balaji, Sundram Karupiah, Kathiresan Sathasivam, Ajay Jain, Ugrappa Sridevi, Malipeddi Himaja (2016). Synthesis, characterization and antimicrobial evaluation of 2-PPA derived novel Oxadiazoles. <i>Indian Journal of Heterocyclic Chemistry</i>, 26(1 & 2)2016. (Impact Factor: 0.305)

10. Neeraj K. Fuloria, Shivkanya Fuloria Kaveti Balaji , **Sundram Karupiah** , Kathiresan Sathasivam, Ajay Jain, Ugrappa Sridevi, Malipeddi Himaja (2016). Synthesis And Evaluation Of Antimicrobial Potential Of Novel Oxadiazoles Derived From Tolyloxy Moiety. Indian Journal of Heterocyclic Chemistry, 26 (3&4) 101-105. **(Impact Factor: 0.305)**
11. Fuloria S., Subramaniam G., Ying T. S., Vijpuri N., Fuloria N. K., Sikarwar S. M., Kaveti B., **Sundram K.**, Vijayabalan S. Discerning the antioxidant and microkinetic potential of eucalyptus *viminalis labill* extracts. Rappports De Pharmacie, 2 (4), 304, 2016.
12. Neeraj Kumar Fuloria, Shivkanya Fuloria, Kathiresan Sathasivam, **Sundram Karupiah**, Kaveti Balaji , Lee Wan Jin , Ong Dee Jade And Ivy Chieng Jing Jing (2017). Synthesis And Discerning Of Antimicrobial Potential Of Novel Oxadiazole Derivatives Of Chloroxyleneol Moiety. Acta Poloniae Pharmaceutica and Drug Research, Vol. 74 No. 4 pp.1125-1130.
13. Pitchai Balakumar, Wei Ern WitnessKoe, Yi Syen Gan, Soo Mei JemayPuah, Subramaniam Kuganesswari, Sunil Kumar Prajapati, Rajavel Varatharajan, Sam Annie Jayachristy, **Karupiah Sundram**, Mohd Baidi Bahari (2017). Effects of pre and post-treatments with dipyrindamole in gentamicin-induced acute nephrotoxicity in the rat. *Regulatory Toxicology and Pharmacology*. Volume 84, Pages 35-44 **(impact Factor 2.221)**
14. Shivkanya Fuloria, Neeraj Kumar Fuloria, **Sundram Karupiah**, Kathiresan Sathasivam, Saurabh Singh, Kushboo Gupta, Ajay Jain, Ugrappa Sridevi, Malipedi Himaja and Shiva Shanker (2017). Synthesis And Discerning Of Antibiotic Potential Of Pcmx Based Novel Azetidiones. Acta Poloniae Pharmaceutica and Drug Research, Vol. 74 No. 6 pp.1711-1715.
15. Venugopal V, Krishnan S, Vasanth R Palanimuthu, Sankarankutty S, Jayaraja K, **Sundram K**, Kit NS, Anti-EGFR anchored paclitaxel loaded PLGA nanoparticles for the treatment of triple negative breast cancer. In-vitro and in-vivo anticancer activities, PLOS ONE, November 2018, **(Impact Factor: 4.41)**
16. Sathasivam KV, Fuloria NK, Fuloria S, Darshenee PJ, Xavier R, Marimuthu K and **KM Sundram**. Kinetic, equilibrium and thermodynamic studies on removal of Cu (II) and Pb (II) by activated carbon prepared from macro-algae (*Kappaphycus alvarezii*). Asian Journal of Chemistry, 2019, 31(6):1343-1348
17. Sathasivam K, Fuloria NK, Fuloria S, **Karupiah S**. Removal of Methylene Blue from Aqueous Solution Using Artocarpus Integer Agrowaste: Equilibrium, Kinetic and Thermodynamic Studies. Bulletin of Environment, Pharmacology and Life Sciences, 2019, 8(3):117-127
18. Shivkanya Fuloria, Neeraj Kumar Fuloria, Choo Jin Yi, Tang Mei Khei, Tan Ann Joe, Law Tiew Wei, **Sundram Karupiah**, Neeraj Paliwal, Kathiresan Sathasivam. (2019) .Green Synthesis of Silver Nanoparticles Blended with Citrus Hystrix Fruit Juice Extract and their Response to Periodontitis Triggering Microbiota. Bull. Env. Pharmacol. Life Sci., Vol 8 [7] June 2019: 112-123.
19. **Fuloria NK, Fuloria S**, Chia KY, **Karupiah S**, Sathasivam K. Response of green synthesized drug blended silver nanoparticles against periodontal disease triggering pathogenic microbiota. J Appl Biol Biotech. 2019;7(04): 46–56.
20. Shivkanya Fuloria, Lau Tiew Wei, **Sundram Karupiah**, Vetriselvan Subramaniyan, Christina Gellknight, Yuan Seng Wu, Saminathan Kayarohanam, Neeraj Kumar Fuloria. Development and Validation of UV-Visible Method to Determine Gallic

	<p>Acid in Hydroalcoholic Extract of <i>Erythrina fusca</i> Leaves. <i>Int.J.Res.Pharm.Sci.</i>, 2020, 11(4), 6319-6326.</p> <p>21. Sundarasekar Jeevandran, Sahgal Geethaa, Wong Jin Yi, See Wei Yuan, Subramani Parasuraman, Sundram Karupiah. Insignificant antidiabetic activities of ethanolic extracts of seeds of <i>Archidendron pauciflorum</i>. <i>Journal of Pharmaceutical Negative Results</i>. 2020; 11(1): 47-53.</p> <p>22. Fuloria, S, Subramaniyan, V, Karupiah, S, Kumari, U, Sathasivam, K, Meenakshi, D.U, Wu, Y.S, Guad, R.M, Udupa, K, Fuloria, N.K. A Comprehensive Review on Source, Types, Effects, Nanotechnology, Detection, and Therapeutic Management of Reactive Carbonyl Species Associated with Various Chronic Diseases. <i>Antioxidants</i> 2020, 9, 1075 (Impact factor 4.520)</p> <p>23. Fuloria, N.K., Ko, M.Y., Rui, C., Hang, C.Z., Karupiah, S., Paliwal, N., Kumari, U., Gupta, K., Sathasivam, K., & Fuloria, S. Green Synthesis and Evaluation of <i>Dimocarpus longan</i> Leaves ExtractBased Chitosan Nanoparticles against Periodontitis Triggering Bacteria. <i>Asian Journal of Chemistry</i>, 2020, 32, 1660-1666.</p> <p>24. Fuloria, S., Hong, O.J., Kim, C.B., Ting, B., Karupiah, S., Paliwal, N., Kumari, U., Sathasivam, K., Vetriselvan, S., & Fuloria, N.K. (2020). Synthesis of Silver Nanoparticles of Corn Silk Agrowaste and Their Bioactivities. <i>Asian Journal of Chemistry</i>, 32, 1497-1504.</p> <p>Book</p> <p>1. Neeraj Fuloria, Shivkanya Fuloria, Kathiresan Sathasivam, Sundram Karupiah & Kaveiti Balaji (2017). Principles and Practices of Traditional, Complementary and Alternative Medicine.</p>
On-going Research	<ol style="list-style-type: none"> 1. HPLC method development for the pharmaceutical and biomarkers. 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.
Completed Research	<ol style="list-style-type: none"> 1. Clinical Study of Standardised Misai Kucing <i>Orthosiphon stamineus</i>, Benth for Kidney Stone Disease and Up scaling from Laboratory to Pilot Scale Production. 2. Phytochemical screening of local herb, <i>Capa, Blumea balsamifera</i>. 3. Pharmacokinetics, efficacy and toxicity of intravenous sodium artesunate in Ghanaian children with, moderately falciparum malaria. 4. Tolerability and Drug interaction study in healthy normal volunteers with Artesunate and sulfadoxine/Pyrimethamine. 5. Variance in absorption of rectal artesunate in Malawian children with moderately severe malaria. 6. Preparation of Chemical Dossier for a new anti-malaria drugs. 7. Development of standard procedures for Quality assurance assessment of newly developed drugs (eg. Artemisinin, Artesunate, Artemether). The newly developed standard procedures was incorporated into <i>International Pharmacopeias</i>. 8. Simultaneous determination of pyrimethamine and sulfadoxine in filter paper blood spots by high performance liquid chromatography. 9. HPLC method development for the determination of Pyronaridine in blood plasma. 10. Phytochemical Investigation on <i>Pereskia Bleo</i> Kunth. 11. Wound healing and anticancer activities of <i>Melastoma Malabathricum</i>.

	12. Exploration of Anti Diabetic Potentials of Secondary Metabolites from Endophytes of <i>Pereskia bleo</i> Kunth.			
Research Grants	Internal grant			
	No	Role	Topic	Amount
	1	Principal Investigator	Exploration of Anti Diabetic Potentials of Secondary Metabolites from Endophytes of <i>Pereskia bleo</i> Kunth	RM 19,995.00
				2 Years Dec'13 – Dec'15
	2	Co-investigator	Cytotoxicity and anticancer profile of <i>Ganoderma Lucidum</i> against five most common cancers of peninsular Malaysia	RM 9,800.00
				1 year Oct'13 – Oct'14
	3	Co-investigator	Formulation and pharmacokinetic evaluation of Isradipine sustained release tablets – an approach for dose reduction	RM 10,000.00
				1 year Dec'13 – Dec'14
	4	Co-investigator	Effect of Ellagic Acid in Type 2 Diabetes Mellitus-Induced Nephropathy in Rats	RM 20,000.00
				2 Years Dec'13 – Dec'15
	External grant			
1	Co-investigator	Study on histopathological and molecular mechanistic aspects of low-dose pleiotropic effects of antiplatelet and antihyperlipidemic drugs in aminoglycoside-induced nephrotoxicity in animal model	RM 159,300.00	2 Years Feb 2015 – Jan 2017 FRGS
2.	Co-investigator	A study on the molecular mechanism of PAC-PLGA-PEG-mAb loaded immunonanoscaffold targeting triple negative breast cancer.	RM 121,200	2 years 01/11/2015 30/10/2017 FRGS
3.	Co-investigator	A mechanistic study on erlotinib-loaded curdlan-clay based semi-IPN nanocomposites for molecularly targeted non-small-cell lung cancer therapy	RM 105,200	2 Years FRGS
4.	Principal Investigator	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.	RM 147,800	3 Years (Jan 2019-Dec 2021) FRGS
Supervision	1 MSc, 3 PhD			
Teaching	Pharmaceutical Chemistry I&II, Pharmaceutical Analysis, Introduction to Medicinal Chemistry, Basic Pharmaceutical Chemistry &Phytopharmacy			
Areas of Expertise	Analytical method development and natural product research			
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