

## Faculty Portfolio

### **Dr. Kumarappan Chidambaram**

Assistant Professor  
Department Pharmacology & Toxicology  
College of Pharmacy  
King Khalid University  
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#### **Education:**

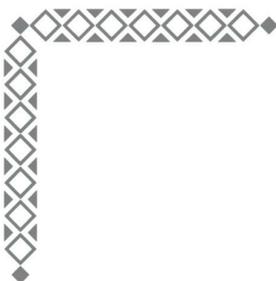
Year of Graduation	Qualifications (Specializations if any)	University/College, Country
2008	PHD (Pharmacology- Cardio-Metabolic)	Jadavpur University, Kolkata
2003	M.Pharm- Pharmacology	The Tamilnadu Dr. MGR Medical University, India
1999	B.Pharmacy	The Tamilnadu Dr. MGR Medical University, India

#### **Professional experience:**

Year	Positions	University/College, Country
Oct 2017 – Present	Assistant Professor	King Khalid University, Saudi Arabia
Oct 2013 – Sep 2017	Head, Department of Pharmacology	Taylor's University, Malaysia
Oct 2010 – Feb 2013	Lecturer	International Medical University, Malaysia
Mar 2008 – Sept 2010	Assistant Professor	Erode College of Pharmacy, India
Dec 2004 – Feb 2008	National Doctoral Fellow	Jadavpur University, India
Mar 2003 – Nov 2004	Head, Department of Pharmacology	Erode College of Pharmacy, India

#### **Community service activities:**

Year	Positions & Name of the Project	University/Company, Country
2012	Annual Health Campaign, Bukit Jalil Stadium	International Medical University, Malaysia



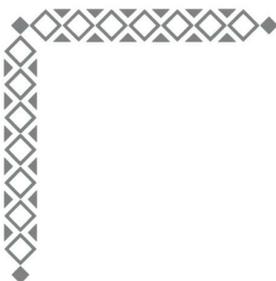
**Academic/research awards:**

<b>Year/Duration of Award</b>	<b>Name of the Award</b>	<b>University/Company, Country</b>
2022	Outstanding Patent Award	King Khalid University, Saudi Arabia
2018	Second, Best Poster Award,	King Khalid University, Saudi Arabia
2018	Third, Best Poster Award,	King Khalid University, Saudi Arabia
2017	Third, Best Poster Award	King Khalid University, Saudi Arabia
2016	FAPA-CP Nagai Award for the best Oral Presentation	FAPA, Japan
2016	Highly cited research Paper Award	Elsevier, Netherland
2005	National Doctoral Fellowship Award	Govt of India (AICTE), India
2003	Dharmarajan Memorial Award (Academic achievement)	Periyar College of Pharmaceutical Sciences
2003	Periyar Maniammai Memorial Award (Academic achievement)	Periyar College of Pharmaceutical Sciences

**Workshops/ Trainings:**

<b>Year</b>	<b>Title</b>	<b>University/Company, Country</b>
2023	Certificate on Online Teaching	Manipal University, India
2022	Tranining on e-learning	King Khalid University, Saudi Arabia
2021	Strategic Plan and Operational Workshop	King Khalid University, Saudi Arabia
2020	Faculty Development Day	King Khalid University, Saudi Arabia
2019	Principles of Clinical Pharmacology	NIH, USA
2015	Biosafety Training Workshops	Taylor's University and Jabatan Biokeselamatan, Malaysia
2015	Bio-Medical Image Analysis Imaging Techniques in Biotechnology and Medical Applications	University Malaya, Malaysia
2015	Soft Skills and Competencies for Academic Leaders	O-PSYCH Sdn Bhd, Malaysia
2012	Presentation Alive	International Medical University
2012	Second Laboratory Animal Handling Workshop	University Putra Malaysia, Malaysia





2011	'Practical Physiology and Pharmacology Teaching- Cellular Homeostasis and Transport Mechanisms	University Putra Malaysia, Malaysia
2008	Cloning, Expression of gene and RT-PCR	Aristogene Biosciences, India
2008	Modern Immunotechnology	Karunya University, India
2008	Chromatography and Molecular Biology Techniques	VIT University, India
2008	Molecular Genetics and Basic Molecular Biology Techniques	International school of Anthropology, India

#### Research interests:

- Drug development for Metabolic syndrome
- Animal Models of cardi-metabolic syndrome
- Preclinical Toxicology
- Natural products-based drug discovery
- Medical Education

#### Teaching experience:

- Coordinator cum Teaching Basic and Clinical Pharmacology for medical students at King Khalid University (Since 2019 & Present), Undergraduate Program
- Coordinator cum Teaching of various Pharmacology courses for PharmD and BPharmacy programs at King Khalid University (2017 – 2019), Undergraduate Programs
- Coordinator cum Teaching Pharmacology for Dental Sciences and Physiotherapy at King Khalid University (2017 – 2019 & Since 2019), Undergraduate Program
- Coordinator and Teaching various system-based Pharmacology courses at Taylors University Malaysia (2013-2017) Undergraduate Program
- Coordinator and Teaching various system-based Pharmacology courses at International Medical University Malaysia (2010-2013) Undergraduate Program
- Coordinator and Teaching Molecular Pharmacology I-II courses at International Medical University Malaysia (2012 - 2013) Postgraduate Program
- Coordinator and Teaching various Drug Screening, General Pharmacology and Drug Discovery postgraduate courses at Dr MGR Medical University (2008 - 2010), Postgraduate Program
- Coordinator and Teaching various Pharmacology courses at Dr MGR Medical University (2013-2014 & 2008- 2010), Undergraduate Program

#### Publications:

1. Kumarappan Chidambaram. In vitro and in vivo Modulation of Postprandial Hyperglycemia by Solanum incanum L. (Bitter Apple). International Journal of Pharmacology 2003, 19 (2), 253-265 (Q4, IF 0.6).  
<https://doi.org/10.3923/ijp.2023.253.265>
2. Radhakrishnan R, Selvaraj H, Chidambaram K, Arshav KV, James A, Thangavel S. Prevalence of Depression and Anxiety Disorders Among Cancer Patients: An Insight





- from a Single Institute. *Cureus Journal of Medical Sciences* 2023, 15(8):e42831. <https://doi.org/10.7759/cureus.42831> (Q4, IF 1.2).
3. Ghazwani M, Vasudevan R, Kandasamy G, Manusri N, Devanandan P, Puvvada RC, Veeramani VP, Paulsamy P, Venkatesan K, Chidambaram K, et al. Formulation of Intranasal Mucoadhesive Thermotriggered In Situ Gel Containing Mirtazapine as an Antidepressant Drug. *Gels*. 2023; 9(6):457. (Q1, IF 4.6). <https://doi.org/10.3390/gels9060457>
  4. Chidambaram, K. Identification of BACE-1 Inhibitors against Alzheimer's Disease through E-Pharmacophore-Based Virtual Screening and Molecular Dynamics Simulation Studies: An Insilco Approach. *Life* 2023, 13, 952. <https://doi.org/10.3390/life13040952> (Q1, IF 4.432)
  5. 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> (Q1, IF 4.319)
  6. Nabihah Nasir N, Sekar M, Ravi S, Wong LS, Sisinthi 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> (Q1, IF 4.319)
  7. Pandey G, Pandey P, Arya DK, Kanaujiya S, Deepak Kapoor D, Gupta RK, Ranjan S, Chidambaram K, Manickam B, Rajinikanth PS. Multilayered nanofibrous scaffold of Polyvinyl alcohol/gelatin/poly (lactic-co-glycolic acid) enriched with hemostatic/antibacterial agents for rapid acute hemostatic wound healing. *International Journal of Pharmaceutics*. 2023 Apr 7; 638:122918. <https://doi.org/10.1016/j.ijpharm.2023.122918> (Q1, IF 6.51)
  8. Jain Nem Kumar, Tailang Mukul, Jain Hemant Kumar, Chandrasekaran Balakumar, Sahoo Biswa Mohan, Subramanian Anandhalakshmi, Thangavel Neelaveni, Aldahish Afaf, Chidambaram Kumarappan, Alagusundaram M., Kumar Santosh, Selvam Palani. Therapeutic implications of current Janus kinase inhibitors as anti-COVID agents: A review. *Frontiers in Pharmacology*, 2023, 14, <https://doi.org/10.3389/fphar.2023.1135145> (Q1, IF 5.988)
  9. Chellathurai BJ, Anburose R, Alyami MH, Sellappan M, Bayan MF, Chandrasekaran B, Chidambaram K, Rahamathulla M. Development of a Polyherbal Topical Gel for the Treatment of Acne. *Gels*. 2023; 9(2):163. (Q1, IF 4.432) <https://doi.org/10.3390/gels9020163>
  10. Alghazwani Y, Alqahtani AM, Alshuraymi MK, Assiri IM, Shuflut AA, Krishnaraju V, Kumarappan C, Ibrahim ARN, Orayj K. The perspective of pharmacist on pharmacovigilance and adverse drug reaction reporting in Asir region, Saudi Arabia. *European Review for Medical and Pharmacological Sciences*. 2023 Feb;27(4):1667-1680. (Q2, IF 3.784) doi: 10.26355/eurrev\_202302\_31410





11. Mahadevan Nanjaian, Goyal Munish, Rajalakshimi Vasudevan, Noohu Abdulla Khan, Kumarappan Chidambaram. Hepatoprotective effect of combined extracts of *Andrographis paniculata*, *Boerhavia diffusa*, *Eclipta alba* and *Picrorhiza kurroa* on carbon tetrachloride and paracetamol-induced hepatotoxicity in rats, *Indian Journal Traditional Knowledge* 2022, 21(3): 545-551(Q4, IF 1.091)
12. Pandey P, Kumar Arya D, Kumar Ramar M, Chidambaram K, Rajinikanth PS. Engineered nanomaterials as an effective tool for HER2+ breast cancer therapy. *Drug Discovery Today*. 2022 Sep;27(9):2526-2540 (Q1, IF 8.369).  
<https://doi.org/10.1016/j.drudis.2022.06.007>
13. Mohan Kumar Ramar, Linda Jeeva Kumari Henry, Shiyamsundar Ramachandran, Kumarappan Chidambaram, Ruckmani Kandasamy. *Ziziphus mauritiana* Lam attenuates inflammation via downregulating NFκB pathway in LPS-stimulated RAW 264.7 macrophages & OVA-induced airway inflammation in mice models, *Journal of Ethnopharmacology*, 295, 2022, 115445 (Q1, IF 5.195)  
<https://doi.org/10.1016/j.jep.2022.115445>
14. Mitra S, Sarker J, Mojumder A, Shibbir TB, Das R, Emran TB, Tallei TE, Nainu F, Alshahrani AM, Chidambaram K, Simal-Gandara J. Genome editing and cancer: How far has research moved forward on CRISPR/Cas9? *Biomedicine Pharmacotherapy*. 2022;150:113011 (Q1, IF 7.419). <https://doi.org/10.1016/j.biopha.2022.113011>
15. Ramar MK, Chidambaram K, Chandrasekaran B, Kandasamy R. Standardization, in-silico and in-vivo safety assessment of methanol extract of *Ziziphus mauritiana* Lam leaves. *Regulatory Toxicology Pharmacology*. 2022 Jun;131:105144 (Q1, IF 3.598).  
<https://doi.org/10.1016/j.yrtph.2022.105144>
16. Rahman MM, Islam MR, Shohag S, Hossain ME, Rahaman MS, Islam F, Ahmed M, Mitra S, Khandaker MU, Idris AM, Chidambaram K, Emran TB, Cavalu S. The Multifunctional Role of Herbal Products in the Management of Diabetes and Obesity: A Comprehensive Review. *Molecules*. 2022; 27(5):1713 (Q2, IF 4.927).  
<https://doi.org/10.3390/molecules27051713>
17. Anand S, Pandey P, Begum MY, Chidambaram K, Arya DK, Gupta RK, Sankhwar R, Jaiswal S, Thakur S, Rajinikanth PS. Electrospun Biomimetic Multifunctional Nanofibers Loaded with Ferulic Acid for Enhanced Antimicrobial and Wound-Healing Activities in STZ-Induced Diabetic Rats. *Pharmaceuticals*. 2022; 15(3):302 (Q1, IF 5.215). <https://doi.org/10.3390/ph15030302>
18. Khattulanuar FS, Sekar M, Fuloria S, Gan SH, Rani NNIM, Ravi S, Chidambaram K, Begum MY, Azad AK, Jeyabalan S, Dhiravidamani A, Thangavelu L, Lum PT, Subramaniam V, Wu YS, Sathasivam KV, Fuloria NK. Tilianin: A Potential Natural Lead Molecule for New Drug Design and Development for the Treatment of Cardiovascular Disorders. *Molecules* (Q2, IF 4.927). 2022; 27(3):673.  
<https://doi.org/10.3390/molecules27030673>
19. Gautam AK, Kumar P, Raj R, Kumar D, Bhattacharya B, Rajinikanth PS, Chidambaram K, Mahata T, Maity B, Saha S. Preclinical Evaluation of Dimethyl Itaconate Against Hepatocellular Carcinoma via Activation of the e/iNOS-Mediated NF-κB-Dependent Apoptotic Pathway. *Frontiers in Pharmacology*. 2022 Jan 14;12:823285 (Q1, IF 5.988). <https://doi.org/10.3389/fphar.2021.823285>





20. Ashok Munjal, Rekha Khandia, Saumi Paladhi, Megha Pandey, Arpana Parihar, Chandrashekhar Pathe, K. Rajukumar, Talha Bin Emran, Taha Alqahtani, Ali M. Alqahtani, Ali H. Alamri, Kumarappan Chidambaram and Kuldeep Dhama. Evaluating the Effects of Hypotensive Drug Valsartan on Angiogenesis and Associated Breast Ductal Carcinoma Cell Metastasis. *International Journal of Pharmacology*, 2022, 18: 817-825 (Q4, 0.751).  
<https://dx.doi.org/10.3923/ijp.2022.817.825>
21. Fuloria S, Sekar M, Khattulanuar FS, Gan SH, Rani NNIM, Ravi S, Subramaniyan V, Jeyabalan S, Begum MY, Chidambaram K, Sathasivam KV, Safi SZ, Wu YS, Nordin R, Maziz MNH, Kumarasamy V, Lum PT, Fuloria NK. Chemistry, Biosynthesis and Pharmacology of Viniferin: Potential Resveratrol-Derived Molecules for New Drug Discovery, Development and Therapy. *Molecules* (Q2, IF 4.927). 2022; 27(16):5072.  
<https://doi.org/10.3390/molecules27165072>
22. Kumarappan Chidambaram and Cini Mathew. Invitro cytotoxicity and in vivo acute oral toxicity evaluation of coptis chinensis aqueous extract. *World Cancer Research Journal*, 2021; 8: e1971, DOI: 10.32113/wcrj\_20215\_1971
23. Mohamed Rahamathulla, Umme Hani, Ali Alqahtani, Gangadharappa. H.V, Yasmin Begum M, Mohammed Jafar, Riyaz Ali M. Osmani, Kumarappan Chidambaram, Afrasim Moin & S. J. Shankar. 23 Factorial Design and Optimization of Effervescent Floating Matrix Tablet of Neratinib. *Journal of Pharmaceutical Innovation* (2021), 406 (Q3, IF 2.750) <https://doi.org/10.1007/s12247-021-09563-4>
24. Alqahtani AM, Chidambaram K, Pino-Figueroa A, Chandrasekaran B, Dhanaraj P, Venkatesan K. Curcumin-Celecoxib: a synergistic and rationale combination chemotherapy for breast cancer. *European Review for Medical and Pharmacological Sciences* 2021, 25 (4):1916-1927 (Q2, IF 3.784) doi: 10.26355/eurrev\_202102\_25086
25. Ellappan Thilagam, Kumarappan Chidambaram, Chinthamreddy Raviteja, Thalu Vahana, Vasudevan. P. Investigation of anti-hyperglycemic and anti-hyperlipidemic effects of *Saraca asoca* (Roxb.) De Wild flowers in alloxan-treated diabetic rats, *Journal of Pharmacy & Pharmacognosy Research*, 2021, 9(1): 58-68
26. Ellappan Thilagam, Kumarappan Chidambaram, Chinthamreddy Raviteja, Thalu Vahana, Vasudevan. P. Investigation of anti-hyperglycemic and anti-hyperlipidemic effects of *Saraca asoca* (Roxb.) De Wild flowers in alloxan-treated diabetic rats, *Journal of Pharmacy & Pharmacognosy Research*, 2020, 9(1): 58-68
27. Jo Ann Andoy Galvan, Sapna Shridhar Patil, Muhammad Sabri Sharir, Karuthan Chinna, Kumarappan Chidambaram. Mode of delivery, birth-order, parental age gap and autism spectrum disorder among Malaysian children: A case-control study. *Heliyon*, 2020, 6(10): e05068
28. Kumarappan C, Alqahtani AM, Kumar V, Srinivasan R, Krishnaraju V. Understanding the genetic aspects of resistance to antidepressants treatment. *European Review Medical and Pharmacological Sciences*, 2020, 24(14): 7784-7795 (Q2, IF-3.04). doi: [10.26355/eurrev\\_202007\\_22281](https://doi.org/10.26355/eurrev_202007_22281)
29. Andoy-Galvan JA, Patil SS, Nair Ramalingam P, Bin Shobri MAS, Chinna K, Shair MS, Chidambaram K. Self-reported competency, knowledge and practices of teachers teaching primary children with autism in government schools of West Malaysia: A



- cross-sectional study. *F1000Research*, 2020, 9 (768): 1-10 (Q1, IF 2.640).  
<https://doi.org/10.12688/f1000research.24283.1>
30. Senthil Rajan and Kumarappan Chidambaram. Antioxidant and free radical scavenging activity of *Nothapodytes nimmoniana* extracts. *International Research Journal of Pharmacy* 2020, 11(6), 15-19. <http://dx.doi.org/10.7897/2230-8407.110659>
  31. Yasmin Begum M, Ali Alqahthani, Kumarappan CT, Sailakshmi, K.Gnanaprakash. Studies on formulation development and evaluation of tolinaftate loaded glycosomes. *Materials Research Innovations*, 2020 (IF: 1.14, Taylors & Francis, Q3).  
<https://doi.org/10.1080/14328917.2020.1779168>
  32. Subashini R, Anusuriya. S, Senthil Rajan D, Kumarappan Chidambaram. Fabrication of non-ionic surfactant vesicular topical gel for the effective treatment of Rheumatoid Arthritis. *Journal of Evolution of Medical and Dental Sciences* 2020, 9(32): 2289 - 2295 (Q4).
  33. Poonguzhali Subramaniam, Manish Kumar, Kumarappan Chidambaram, Rajinikanth Siddalingam. In-vitro and in-vivo evaluation of supersaturable Self-nanoemulsifying drug delivery system (SNEDDS) of Dutasteride. *Current Drug Delivery* 2020;17(1):74-86 (Q4, IF:1.645) doi : [10.2174/1567201816666191112111610](https://doi.org/10.2174/1567201816666191112111610)
  34. Kumarappan CT, Cini Mathew John, Fazlin Mohd Fauzi, Sunil C and Subhash C Mandal. Modulation of glucose transporter proteins by polyphenolic extract of *Ichnocarpus frutescens* (L.) W. T. Aiton in experimental type 2 diabetic rats *Indian Journal of Experimental Biology* 2020, 8: 1-8 (Q3, IF-1.475) doi: [10.1080/08860220701857449](https://doi.org/10.1080/08860220701857449)
  35. Prerna Sharma, Mahadevan Nanjaian, Sanjeev Kalra, Kumarappan Chidambaram. *In vivo* anti-inflammatory and *in vitro* antioxidant potential of leaf and bark fractions of *Holoptelea integrifolia* (Roxb.) Planch. *Journal of Pharmacy & Pharmacognosy Research* 2019, 7 (6), 421-432 (Q3).
  36. Balamurugan Manickam, Rajesh Sreedharan and Kumarappan Chidambaram. Drug/vehicle impacts and formulation centered stratagems for enhanced transdermal drug permeation, controlled release and safety: Unparalleled past and recent innovations – An overview. *Current Drug Therapy*, 14(3), 2019 (Q4, 1.645) doi : [10.2174/1574885514666190212113754](https://doi.org/10.2174/1574885514666190212113754)
  37. Kumarappan CT, Senthilrajan D, Rajinikanth S, Thilagam E, Subhash C. Invitro inhibitory effect of polyphenolic extract of *Ichnocarpus frutescens* on carbohydrate digestive enzymes. *Advances in Pharmacology and Pharmacy* 2019, 7 (1): 14-21 doi: [10.13189/app.2019.070103](https://doi.org/10.13189/app.2019.070103).
  38. Thilagam E, CT. Kumarappan and Subhash C Mandal. Antidiabetic activity of *Senna surattensis* in alloxan-induced diabetic rats. *Asian Journal of Pharmaceutical and Clinical Research* 2018, 11 (4): 160-163.  
doi <https://doi.org/10.22159/ajpcr.2018.v11i4.23632>
  39. Rajinikanth PS, Kumarappan Chidambaram. Topical delivery of 5-Fluorouracil via nano-carrier: Preparation, *invitro* and *ex-invivo* characterization of the water-in-oil nanoemulsion. *Tropical Journal of Pharmaceutical Research* 2016, 15 (11): 2311-2319 (Q3, IF:0.842) doi: [10.4314/tjpr.v15i11.3](https://doi.org/10.4314/tjpr.v15i11.3)
  40. Kumarappan CT and Subhash C Mandal. Polyphenol extract of *Ichnocarpus frutescens* leaves modifies hyperglycemia in dexamethasone (DEX) treated rats. *Indian Journal of Physiology and Pharmacology* 2014; 58(4):441-445 (Q4). (PMID: 262150144)
  41. Kumarappan CT and Mandal SC. Anti-diabetic activity of polyphenolic extract of *Ichnocarpus frutescens* on STZ induced type II diabetic rats with reference to key



- carbohydrate metabolic enzymes. *International Journal of Diabetes in Developing Countries* 2015; 35(4), 425 (Q4, IF- 0.509). doi <https://doi.org/10.1007/s13410-015-0295-2>
42. Kumarappan Chidambaram, Srinivasan Ramamurthy, Jeevathappan Sithamparapillai and Senthil Rajan Dharmalingam. *Ichnocarpus frutescens*: A valuable medicinal plant. *Pharmacologyonline* 2015, 2: 1-17 (IF- 0.16).
  43. Srinivasan Ramamurthy, Chidambaram Kumarappan, Senthil Rajan Dharmalingam and Jaswin Kaur Sangeh. Phytochemical, Pharmacological and Toxicological Properties of *Ficus deltoidea*: A Review of Recent Research. *Annual Research and Review in Biology* 2014, 4(14): 2357-2371 (Q2). doi <https://doi.org/10.9734/ARRB/2014/8281>
  44. Senthil Rajan Dharmalingam, Chidambaram Kumarappan, Srinivasan Ramamurthy. Preparation and enhanced *in-vitro* diffusion profile of naproxen by EPA technique in hydrogel formulation. *Digest Journal of Nanomaterials and Bio-structures* 2013; 8(1): 25-33 (Q3, IF-1.200)
  45. Pandey Vijayapandi, Vamsi Krishna Annabathina, Siva Naga Srikanth B, Vankadari Manjunath, Praveena Boggavarapu, Ameen Kunhu Mohammed P, Konasani RajendraPrasad, CT Kumarappan. In vitro anticholinergic and antihistaminic activities of *Acorus calamus* Linn. leaves extracts. *African Journal of Traditional, Complementary and Alternative Medicines* 2012; 10(1):95-101 (Q4, IF- 0.840). (PMID: 24082330; PMCID: [PMC3746362](https://pubmed.ncbi.nlm.nih.gov/24082330/))
  46. Senthil Rajan Dharmalingam, Kumarappan Chidambaram, Srikumar Chakravarthy, Ng Kee Ping. Hepatotoxic effect of Doxorubicin in Sprague Dawley rats: Evidence from the histopathological study. *Journal of Botanical and Life Sciences Research (Bothalia)* 2013; 43(12): 198-211 (IF-1.000).
  47. Kumarappan CT, Thilagam E and Mandal SC. Antioxidant activity of polyphenolic extracts of *Ichnocarpus frutescens*. *Saudi Journal of Biological Sciences* 2012; 19(3): 349-355 (Q2, IF-2.82). <https://doi.org/10.1016/j.sjbs.2012.04.004>
  48. Senthil Rajan Dharmalingam, Srinivasan Ramamurthy, Kumarappan Chidambaram, Shamala Nadaraju. A Simple HPLC-UV Bioanalytical method for the estimation of doxorubicin in rat plasma: Application to pharmacokinetic studies. *Tropical Journal of Pharmaceutical Research* 2013; 13(3): 409-415 (Q4, IF-0.820). doi: [10.4314/tjpr.v13i3.15](https://doi.org/10.4314/tjpr.v13i3.15)
  49. Senthil Rajan Dharmalingam, Rajkumar Madhappan, Kumarappan Chidambaram, Srinivasan Ramamurthy, Krishna Gopal, Swetha P, Senthil Kumar KL. Anti-uro lithiatic properties of *Melia azedarach* Linn leaves on ethylene glycol-induced urolithiasis in male albino rats. *Tropical Journal of Pharmaceutical Research* 2013; 13(3): 391-397 (Q4, IF- 0.820). doi: [10.4314/tjpr.v13i3.12](https://doi.org/10.4314/tjpr.v13i3.12)
  50. Sunil Christudas, Savarimuthu Ignacimuthu, Chidambaram Kumarappan. In vitro antioxidant, antidiabetic and antilipidemic activities of *Symplocos cochinchinensis* (Lour.) S. Moore. Bark. *Food and Chemical Toxicology* 2012; 50(5): 1547-1533 (Q1, IF- 4.979). doi: [10.1016/j.fct.2012.01.029](https://doi.org/10.1016/j.fct.2012.01.029)

#### Conference attendance/presentations:

1. Galvan Jo Ann, Ramalingam PB, Patil SS, Shobri MAS, Sharir MS, Chinna K, Chidambaram K. self-reported competency, knowledge and practices of teachers teaching primary children with autism in Government schools of West Malaysia.





- Taylor's University Research Fair*. Taylor's University, 2019 November 26-28, Malaysia.
2. Jo Ann Andoy Galvan, Prabhagari Nair Ramalingam, Sapna Shridhar Patil, Muhammad Aminul Syahmi bin Shobri, Muhammad Sabri Sharir, Karuthan Chinna, Kumarappan Chidambaram. Association between emergency caesarean section, earlier order of birth, high parental age gap and autism spectrum disorder among Malaysian children: A case-control study, *7<sup>th</sup> Asian Congress of Health Psychology*, 2019 September 19 – 21, Malaysia.
  3. Ellappan Thilagam, Kumarappan Chidambaram and Subhash Chandra Mandal. Antidiabetic activity of methanol extract of flowers of *Saraca asoca* (Roxb.) De Wild. *18<sup>th</sup> International Congress of International Society for Ethnopharmacology (ISE) & the 5<sup>th</sup> International Congress of the Society for Ethnopharmacology (SFE)*, (ISE-SFEC 2018), January 13-15, 2018 at Dhaka, Bangladesh.
  4. Shamala Nadaraju, Sharina Hamzah, Hui-Yee Chee, Cini Mathew John, Kumarappan Chidambaram. Cytotoxicity and antiviral effect of *Carica Papaya* Linn against dengue virus. *1<sup>ST</sup> International Symposium on Herbal Medicines*. 18 January 2018, Sarawak, Malaysia.
  5. Kumarappan Chidambaram, Cini Mathew John, Fazlin Mohd-Fauzi, Subhash Chandra Mandal Polyphenolic Extract of *Ichnocarpus frutescens* Modulates Glucose Utilization via Glucose Transporters in Streptozotocin-Nicotinamide Induced Diabetic Rats. *The Federation of Asian Pharmaceutical Associations (FAPA)*, Bangkok, Thailand, 9-13<sup>th</sup> November 2016 (Best Oral Paper Award).
  6. Kumarappan Chidambaram, Cini Mathew John, Fazlin Mohd-Fauzi, Subhash Chandra Mandal. Polyphenolic extract of *Ichnocarpus frutescens* leaves modulates peripheral glucose uptake through GLUT gene transporters in experimental Type 2 diabetic rats. *12<sup>th</sup> Malaysian Pharmaceutical Society-Pharmacy Scientific Conference (MPS-PSC 2015)* on 13-15<sup>th</sup> November 2015, Taylor's University, Malaysia.
  7. Kumarappan Chidambaram and Syed Atif Abbas. Pharmacy Student's Perception and Attitude on The Use Of Simulated CAL (Computer Assisted Learning-Simulation Software) Software In Pharmacology Practical For Undergraduate Pharmacy Program, *8<sup>th</sup> Taylor's Teaching and Learning Conference*, 28-29<sup>th</sup> November Taylor's University, Malaysia.
  8. Thilagam E, CT. Kumarappan, Subhash C Mandal. Antioxidant effect of *Senna surattensis* leaves extract on streptozotocin-induced diabetic rats. *12<sup>th</sup> MPS Pharmacy Scientific Conference (MPS-PSC 2015)*, 13-15<sup>th</sup> November 2015, Taylor's University, Subang Jaya, Malaysia.
  9. Kumarappan Chidambaram, Thilagam, E, Manisenthil, KT, Mandal, SC. Inhibitory effects of a polyphenolic extract of *Ichnocarpus frutescens* on carbohydrate digestive enzymes. *FAPA Congress 2014: Theme- Expanding the Pharmacists' Role in Wellness and Sustainable Health*, 9<sup>th</sup>-12<sup>th</sup> October 2014, Sabah, Malaysia.
  10. Ebenezar Chitra, Fabian Devamani, Kumarappan Chidambaram, Leong Chee Onn, Muhammmad Omar Bin Habib, Sylvia Kee Tzy Shuan, Nava Yugavathy, Wen Wei Xiong, Kuok Huey Wen, See Jia Wen. Procarcinogenic role of antihyperglycemic drug sitagliptin in fibroblast cell lines invitro. *International Symposium on Biological Engineering and Natural Sciences (ISBENS)*, July 26-28, 2013, Bangkok, Thailand.





### **Patents (National and International)**

1. Title: A system for performing molecular modelling studies and density function theory calculations of new alpha-aminophosphonate with amlodipine as a potential inhibitor of the SARS-CoV-2 main protease (Patent No IPC: G16C 20/50, 06.10.2022, The President of the German Patent and Trademark Office, Federal Re-public of Germany).
2. Title: A system for the green synthesis and their biological evaluations of novel urea analogues. (Patent No IPC: C07C 273/18, 09.03.2023, The President of the German Patent and Trademark Office, Federal Republic of Germany).
3. Title: A nanofiber loaded with ferulic acid for enhanced antimicrobial and diabetic wound healing activity (Patent No: 202241020624; 01/04/2022), The Office of the Controller General of Patents, Designs and Trademarks (CGPDTM- The Indian Patent Office), Government of India.
4. Title: A new alternative synthesis of potential anti-coagulant drug rivaroxaban: molecular dynamics simulations, density functional theory, molecular docking, and ADMET studies (Patent No: 202211022190, 13/04/2022). The Office of the Controller General of Patents, Designs and Trademarks (CGPDTM- The Indian Patent Office), Government of India.

### **Grants**

#### **External collaborative Grants:**

2023-2024 Formulation, evaluation, and stability studies of Chitosan-Genipin cross-linked based herbal Hy-drogen comprising Abutilon pannosam Leaves extracts for Anti-hemorrhoidal activity. Role: Co-Investigator, Grant Number: CPN/RC/02/2022-2023 Grant Amount: 5408.78 OMR Status: Ongoing, Country: Sultanate of Oman

2020-2021 An investigation of the chemical composition and the effect of Omani garlic oil as a permeation enhancer on chitosan-based transdermal drug delivery systems containing diclofenac sodium as a model drug (Completed); Duration: 1 year (2022-2023); Role: Co-Investigator; Funded by: The Research Council, Research Grant Program, University of Nizwa, Country: Sultanate of Oman

#### **National & University Grants:**

2023-2024 Mechanistic insight into the immunomodulatory and anti-viral potential of Bodinoside: Plant-derived immunostimulant from an endangered medicinal herb of Asir Region, Saudi Arabia, Role: Principal Investigator, Grant Number: RGP 2/131/1444, Funded





by: Large Research Grant Program, King Khalid University, Saudi Arabia (RGP.2/52/1443),  
Status: Ongoing.

2021-2022 Mechanistic insight into the immunomodulatory and anti-viral potential of Bodinoside: Plant-derived immunostimulant from an endangered medicinal herb of Asir Region, Saudi Arabia, Amount 150,000.00 SAR, 1 Year, Role: Principal Investigator (Completed), Funded by: Large Research Grant Program, King Khalid University, Saudi Arabia (RGP.2/52/1443)

2020-2021 Deciphering the Safety-assessment of Solanum xanthocarpum from Abha, Aseer Region: A Molecular Pharmacological Approach Using In-silico, In-vitro, and In-vivo Techniques (Completed), Amount 98,000.00 SAR, 1 Year, Role: Principal Investigator, Funded by: Small Research Grant Program, King Khalid University, Saudi Arabia (RGP.1/275/1442)

2020-2021 The effect of geranin on oral hypoglycemic drugs induced bone porosity in non-obese rats with type 2 diabetes mellitus (Completed), Amount 150,000.00 SAR, 1 Year, Role: Co-Investigator, Funded by: Large Research Grant Program, King Khalid University, Saudi Arabia (RGP.2/186/1442)

2020-2021 A Cross-sectional Online Survey to understand the knowledge and awareness of COVID-19 among the General Public in the Kingdom of Saudi Arabia: An Epidemiological, Clinical and Psychological update on COVID-19, and measures to prevent it (Completed), Amount 60,0.00 SAR, Role: Co-Investigator, Funded by: General Department of Research and Studies, Ministry of Health, Saudi Arabia

2019-2020 Pharmacological evaluation of renal modulatory effect of febuxostat in gentamicin-induced, nephrotoxicity in Rats (Completed), Amount: 25,000.00 SAR, Role: Co-investigator, Funded by: KKU Grant, King Khalid University, Saudi Arabia.

### **Invited Talk**

2023: Humanized Animal Models for Drug Discovery. International Conference on the Current Trends in Translational Research (ICCTR), Saveetha College of Pharmacy, Saveetha Institute of Medical and Technical Sciences (SIMATS), Chennai, India, 5th August 2023.

2023: Interactive Learning, Teaching and Assessments: Role of Technology and Teachers. Five-day online faculty development program on “Advances in Teaching and Research Pedagogies in Pharmaceutical Sciences. St. Peter’s Institute of Pharmaceutical Sciences, India, 12-16th Feb 2023

2022 : Anti-atherogenic effect of herbal drugs through suppressing adipocytokines and cardiac markers, 2nd International Pharmacy Workshop on Metabolic Syndrome (MetS) -(IPW -2022), Theme: Current and Future Therapies for “Metabolic Syndrome”, Tishk University International, Erbil, Iraq, 18th May 2022.





2021: Translational Perspectives on Recent Advances in Preclinical Models of Cardiometabolic Disorders. UGC Sponsored Refresher Course in Life Sciences. The Human Resource Development Centre of Bharathiar University, India, 29th December 2021-11th January 2022.

2020: Pharmacotherapy Against Diabetes Mellitus: What We Have and What We Expect? Pannai College of Pharmacy, Tamilnadu, India, July 2020.

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