

**INDUSTRY, INNOVATION, AND INFRA STRUCTURE (SDG 9)****Research Related Industrial Collaboration****Research income from Industry**

Particulars	Co-ordinators	Project Cost	GST 18%	Total Project Cost	Received	
					Date	Amount (Rs)
Arya Vaidya Sala Kottakkal	Dr Praveen	1,70,000	30,600	2,00,600	09.09.2021	91,800
Sivasakthi Pharmaceuticals Pvt Ltd	Dr Gowthamrajan	16,949	3,051	20,000	23.08.2021	10,000
Mr M Santhil Kumar Executive Director Allianz Biosciences Pvt Ltd Chennai.	Dr Praveen / Dr Rajesh	6,78,000	1,22,040	8,00,040	13.10.2021	3,60,000
Dr Sivakumar Chief Technology Officer Arviya Technologies Pvt Ltd Thanjavur.	Dr Praveen	32,000	5,760	37,760	19.10.2021	37,760
Iyerka Ooty	Dr Rajesh	21,186	3,814	25,000	17.11.2021	12,500
					<b>Total</b>	<b>Rs. 512060</b>

## Research Related Innovation

### Research income from Innovation

Year 2021-2022	Research Income from Innovation
Research Funds for Innovation – 17	Rs. 3,37,500 /-
Research Funds for Innovation from various Funding Agencies – 3	Rs. 15,93,093/-
Total	Rs. 19,30,593/-

### Research Funds for Innovation from various Funding Agencies: 3

A part of amount released for academic year 2022-2023 = Rs. 15,93,093/-

Sl No.	Funding agency	Project Title	Name of the student & Guide	Total fund amount (in Lakhs)	Date of initiation
1	ICMR	Therapeutic efficacy of selected proiotics and expression/suppression of proteins in triple negative breast cancer cells -A role of probiotics in cancer therapy	Dr.Ashish Wadhwani (PI) Dr TK Praveen (Co-PI)	25.80 L	Jan 2022
2	DBT- RRSFP- BUILDER	Nanotheranostics for CVD disease management	Dr. K. Gowthamarajan (PI) Dr. T K Praveen (Co-PI)	10.00	Jan 2022 – Feb 2025
3	DST – PURSE	Understanding the stability of the drugs in microgravity environment	Dr.K. Gowthamarajan (PI) Dr.K Satyanarayana Reddy (Co-PI) Dr. M. Jeya Prakash (Co-PI)	13.30	Jan 2022 – Dec 2026

## Patents

### Number of Patents Granted

Year	Granted
2021-2022	03

S.No	Title of Patent	Patent/ Application No.	Name of Inventors	Department	Details of different stages	Current Status	Applicant name
1.	Novel Glitazones as Ppar- $\alpha$ and Ppar- $\gamma$ Agonists and $\alpha$ -Glucosidase Inhibitors	Pat. No. 3828812 266/CHE/ 2012	Dr.M.J Nanjan, Dr.T.K Praveen Dr.MJN Chandrasekar	TIFAC CORE HD	Filed: 06.06.2012 Published: 08.04.2016 Granted: 03.12.2021	Awarded	TIFAC CORE IN HERBAL DRUGS
2.	Surface Modified Benzyl quinolone carboxylic acid- Stearylamine Conjugates for management of Alzheimer's disease	Pat. No: 388590 2019410 25298	Dr.T.K Praveen Chintamaneni Pavan Kumar Pindiprolu Satya Sessa Sai Kiran	Pharmacology	Filed: 26.06.2019 Published: 02.08.2019 Granted: 07.02.2022	Awarded	JSS College of Pharmacy, Ooty – JSS Academy of Higher Education & Research, Mysuru

3.	Surface Modified Benzyl quinolone carboxylic acid- Stearylamine Conjugates for management of Alzheimer's disease	Pat. No: 388590 2019410 25298	Dr. T. K Praveen Chintamaneni Pavan Kumar Pindiprolu Satya Sesha Sai Kiran	Pharmacology	Filed: 26.06.2019 Published: 02.08.2019 Granted: 07.02.2022	Awarded	JSS College of Pharmacy, Ooty – JSS Academy of Higher Education & Research, Mysuru
----	--	--	---	--------------	--	---------	--

### **Publications**

#### **Total Number of Publications in Scopus and WoS - 2021- 2022**

**Total Number of Publications: 216**

#### **Faculty Publications**

<b>Total Articles</b>	<b>216</b>
<b>WOS indexed Journal</b>	<b>73</b>
<b>Scopus indexed Journal</b>	<b>179</b>
<b>Impact factor range</b>	<b>00-9.776</b>

#### **Department of Pharmaceutics (56)**

1. Gnanasampath M, Gowthamarajan K. Safe Use of Ocular Nanosuspension. International Journal of Pharmaceutical Research. 2021;13(01):2302-2311.

2. Arun R, Gowthamarajan K, Thirumalai SKJ. Personalized nano tools for the treatment of metabolic disorders. *Recent Innovations in Chemical Engineering*. 2021;14(05):1-10.
3. Pradeesh M, Pranesh B, Abhijith KR, Arun R, Jawahar N, Senthil V. Preparation and Evaluation of Face wash Pop-up Tablet. *International Journal of Pharmaceutical Research*. 2021;13(2):2154-2161.
4. Prabhakar VS, Beula EC, Aravindhanathan V, Sruthi N, Gowthamarajan K. Regulatory Comparative Quality Systems of India and USA and its Significance in Pharmaceutical Industry Facilities. *International Journal of Research in Pharmaceutical Sciences*. 2021;11(SPL4):2457-2462.
5. Krishnanand A, Senthil V, Kavinkumar S, Abhishek GOC. Formulation development and evaluation of floating bioadhesive tablet of antiretroviral drug. *International Journal of Pharmaceutical Sciences and Research*. 2021;12(2): 820-829.
6. Chenmala K, Raman S. "Can Nature Heal and be a Possible Remedy for the Management of Covid-19?". *Infectious Disorders - Drug Targets*. 2021;21: e300821190175.
7. Debosmita D, Raman SK. Review on wound and advancement in healing strategies. *International Journal of Pharmaceutical Sciences and Research*. 2021;12(2):760-766.
8. Karthick, Aishwarya R, Raman SK. An Insight of Emerging Role of Nanotechnology for the Management of Athlete's Foot. *International Journal of Pharmaceutical Research*. 2021;13(1):3910-3921.
9. Janani SK, Raman SK, Sai SU, Chenmala K. Polyphenols as adjuvant in tossing out acne vulgaris (pustules): a novel formulation strategy. *International Journal of Pharmaceutical Sciences and Research*. 2021;12(2):845-852.
10. Aishwarya R, Karthick, Raman SK. An Overview on Modern Drug Delivery Nanotechnology for the Management of Acne Vulgris. *International Journal of Pharmaceutical Research*. 2021;13(01):3899-3909.
11. Vignesh M, Sureshkumar R. Regulatory aspects of Implementing Haemo-Vigilance. *Research Journal of Pharmacy and Technology*. 2021;14(2):701-4.
12. Janani SK, Dhanabal SP, Sureshkumar R, Karthika C, Upadhyayula SS. Will the traditional medicine un-pause the world and decide the fate of covid-19?. *International Journal of Applied Pharmaceutics*. 2021;13(2):59-66.

13. Pranesh B, Nagasamy VD, Abhijith KR, Ezhilan C. Use of Gamma Scintigraphy Technique in Pharma Sectors. International Journal of Pharmaceutical Research. 2021;13(2):1341-1350.
14. Abhijith KR, Nagasamy VD, Pranesh B, Ezhilan C. Cubosomes For Drug Delivery. International Journal of Pharmaceutical Research. 2021;13(3):8-16.
15. C Ezhilan<sup>1</sup>, Nagasamy V, Abhijith, Pranesh. Hydrotrophy A Promising Technique for Enhancing Solubility of Poorly Soluble Drugs. International Journal of Pharmaceutical Research. 2021;13(3):1-12
16. Pravin C, Ganesh GNK, Chouthri D. An Overview on Nasal Drug Delivery System. International Journal of Pharmaceutical Research. 2021;13(1):2719-2726.
17. Kalki S, Ganesh GNK, Manisha P. An Epitome on Contemporary Transdermal Drug Delivery System Technology. International Journal of Pharmaceutical Research. 2021;13(1):2697-2702.
18. Hariharan R, Ganesh GNK, Arun R, Jothi PK. Doe in Pharmaceuticals: Supporting Software and Future Prespects. International Journal of Pharmaceutical Sciences. 2021;13(2): 119-127.
19. Vignesh M, Ganesh GNK. Pharmacy professions in India during covid-19 pandemic: present status, future challenges and a way forward. International Journal of Applied Pharmaceutics. 2021;13(1):32-44.
20. Pallavi MN, Ganesh GNK, Vignesh M. Ecopharmacovigilance: A Comparative Regulatory Framework in the US and EU. International Journal of Pharmaceutical Research. 2021;13(1):131-139.
21. Rajendra PK, Jawahar N, Raman R, Shivakumar HN, Balan AP. An Overview of Dual Targeting Nanostructured Lipid Carriers for the Treatment of Ovarian Cancer. Indian journal of pharmaceutical education and research. 2021;55(2):330-5. **(IF:0.686)**
22. Manisha P, Jawahar N, Senthil V. A Review on Herbal Cosmetic Cream For Chickenpox Blisters And Scars. International Journal of Pharmaceutical Research. 2021;13(1): 2787-2796.
23. Jothi PK, Jawahar N, Senthil V, Hariharan R. A Review on Selected Herbs as Skin Care Cosmetics. International Journal of Pharmaceutical Research. 2021;13(1):2326-2332.
24. Vinitha E, Jawahar N, Senthil V. Latest Updates on Materiovigilance Programme of India MVPI. International Journal of Pharmaceutical Research. 2021;13(1):72-77

25. Swathi J, Natarajan J, Senthil V. A Review on Regulations and Legislations for blood and blood products in India. *Journal of Pharmaceutical Sciences and Research*. 2021;13(2):124-127.
26. Shyam SP, Podila N, Jawahar N Ashish W, Selvaraj J. Potential Coumarin Thiosemicarbazone Hybrids as BRCA-1 Mimetics for ER Positive Breast Cancer Therapy: An In-silico Approach. *Journal of Medical Pharmaceutical and Allied sciences*. 2021;10(4):3484-3493.
27. Sanapalli BK, Yele V, Singh MK, Krishnamurthy PT, Karri VV. Preclinical models of diabetic wound healing: A critical review. *Biomedicine & Pharmacotherapy*. 2021; 142:111946. **(IF:6.529)**
28. Sanju S, Tallapaneni V, Narukulla S, Pamu D, Mude L, Karri VV. Micro and nanoparticles for the delivery of growth factors in diabetic wounds. *Journal of medical pharmaceutical and allied sciences*. 2021;10(5):3552-3559.
29. Murali M, Kothandan S, Chandrasekaran M, Singh SK, Kuppusamy G, Radhakrishnan A. Fluticasone and Cyclophosphamide towards the track of personalized Medicine. *Research Journal of Pharmacy and Technology*. 2021;14(1):179-84.
30. Kalaivanan, Mithra C, Radhakrishnan A. An overall review of quality by design approach. *International Journal of Pharmaceutical Research*. 2021;13(1):2827-2835.
31. Teena S, Radhakrishnan A. Clinical trial regulations of personalized medicine. *International Journal of Pharmaceutical Research*. 2021;13(1):4146-4158.
32. Arun K, Radhakrishnan A. A detailed review on drug delivery technologies for the management of brain tumour. *International Journal of Pharmaceutical Research*. 2021;13(1):4204-4217.
33. Devaraj S, Radhakrishnan A, Kothandan S, Abhijith KR, Ashish A, Pradeesh M, Pranesh B, Kuppusamy G, Singh SK. Formulation and evaluation of consumer friendly facewash tablet. *Research Journal of Pharmacy and Technology*. 2021;14(2):838-42.
34. Radhakrishnan A, Kuppusamy G. Theoretical Formulation Strategies Towards Neutralizing Inter-individual Variability Associated with Tacrolimus Immunosuppressant Therapy: A Case Study on Next generation Personalized Medicine. *Current drug metabolism*. 2021;22(12):939-956 **(IF:3.3)**

35. Dhamini M, Jawahar N, Vignesh M. Materiovigilance programme of India-An overview. Research Journal of Pharmacy and Technology. 2021, 1;14(2):1137-41.

**Publications jointly with other National/International universities/organisations/industries**

36. Kaur J, Mishra V, Singh SK, Gulati M, Kapoor B, Chellappan DK, Gupta G, Dureja H, Anand K, Dua K, Khatik GL. Harnessing amphiphilic polymeric micelles for diagnostic and therapeutic applications: Breakthroughs and bottlenecks. Journal of Controlled Release. 2021;334 (2021):64–95. **(IF:9.776) (Lovely Professional University, India)**
37. Balamurugan SD, Venkatesan A, Radhakrishnan A, Kuppusamy G, Singh SK. Preliminary investigation for preparing amorphous paracetamol. Research Journal of Pharmacy and Technology. 2021;14(3):1487-92. **(Lovely Professional University, India)**
38. Khursheed R, Singh SK, Wadhwa S, Gulati M, Kapoor B, Awasthi A, Kumar R, Pottoo FH, Kumar V, Dureja H. Opening eyes to therapeutic perspectives of bioactive polyphenols and their nanoformulations against diabetic neuropathy and related complications. Expert opinion on drug delivery. 2021;18(4):427-48. **(IF: 6.648) (Lovely Professional University, India)**
39. Thimmulappa RK, Kumar MN, Shivamallu C, Subramaniam KT, Radhakrishnan A, Suresh B, Kuppusamy G. Antiviral and immunomodulatory activity of curcumin: A case for prophylactic therapy for COVID-19. Heliyon. 2021;7(2): e06350. **(IF:2.850) (JSS Medical College, India)**
40. Venkatesan A, Radhakrishnan A, Kuppuswamy G, Singh SK. Detectability & quantification of low-dose glimepiride in a fixed-dose combination using Raman imaging. Vibrational Spectroscopy. 2021; 113:103229. **(IF:2.507) (Lovely Professional University, India)**
41. Ramaswamy S, Gowthamarajan K, Priyanka Dwarampudi L, Bhaskaran M, Kadiyala M. Analytical method development, validation and forced degradation studies for rutin, quercetin, curcumin, and piperine by RP-UFLC



- method. *Drug Development and Industrial Pharmacy*. 2021;47(4):562-8. **(IF:3.225) (Texas Southern University, USA)**
42. Kaur J, Gulati M, Gowthamarajan K, Vishwas S, Chellappan DK, Gupta G, Dua K, Pandey NK, Kumar B, Singh SK. Combination therapy of vanillic acid and oxaliplatin co-loaded in polysaccharide based functionalized polymeric micelles could offer effective treatment for colon cancer: A hypothesis. *Medical hypotheses*. 2021; 156:110679. **(IF.1.538). (Lovely Professional University, India)**
  43. Radhakrishnan A, Kuppusamy G, Ponnusankar S, Mutalik S. Towards next-generation personalization of tacrolimus treatment: a review on advanced diagnostic and therapeutic approaches. *Pharmacogenomics*. 2021;22(17):1151-75. **(IF:2.533) (Manipal College of Pharmaceutical Sciences, India)**
  44. Khursheed R, Singh SK, Wadhwa S, Gulati M, Kapoor B, Jain SK, Gowthamarajan K, Zacconi F, Chellappan DK, Gupta G, Jha NK. Development of mushroom polysaccharide and probiotics based solid self-nanoemulsifying drug delivery system loaded with curcumin and quercetin to improve their dissolution rate and permeability: State of the art. *International Journal of Biological Macromolecules*. 2021; 189:744-57. **(IF: 6.953) (Lovely Professional University, India)**
  45. Balya H, Radhakrishnan A, Jabaris SL, Kuppusamy G, Seetharaman S. Fabrication of novel bio-compatible cefixime nanoparticles using chitosan and *Azadirachta indica* fruit mucilage as natural polymers. *Journal of Drug Delivery Science and Technology*. 2021; 66:102750. **(IF:3.981) (University of Science and Technology of Fujairah, UAE)**
  46. Jaiswal A, Venkatachalam S, De A, Namdev B, Ramaswamy R, Natarajan J. Preparation, Characterization and Optimization of Repurposed Valproic Acid Loaded Carboxymethyl Chitosan Nanoparticles by Box–Behnken Design for Alzheimer Management. *Indian journal of pharmaceutical education and research*. 2021;55(1): S75-86. **(IF:0.686) (JSS Academy of Technical Education, India)**
  47. Murugesan R, Haldorai Y, Sibi L, Sureshkumar R. Ibrutinib conjugated surface-functionalized multiwalled carbon nanotubes and its biopolymer composites for targeting prostate carcinoma. *Journal of Materials Science*. 2021;56(33):18684-96. **(IF:4.220) (Bharathiar University, India)**

48. Nagasamy VD, Meyyanathan SN, Shanmugam R, Kamatham SS, Campos JR, Dias-Ferreira J, Sanchez-Lopez E, Cardoso JC, Severino P, Souto EB. Physicochemical, pharmacokinetic, and pharmacodynamic characterization of isradipine tablets for controlled release. *Pharmaceutical Development and Technology*. 2021;26(1):92-100. **(IF:3.133) (Sri Vasavi Institute of Pharmaceutical Sciences, India)**
49. Pamu D, Tallapaneni V, Karri VV, Singh SK. Biomedical applications of electrospun nanofibers in the management of diabetic wounds. *Drug Delivery and Translational Research*. 2021;12(1):158-166. **(IF:4.617) (Lovely Professional University, India)**
50. Tallapaneni V, Kalaivani C, Pamu D, Mude L, Singh SK, Karri VV. Acellular Scaffolds as Innovative Biomaterial Platforms for the Management of Diabetic Wounds. *Tissue Engineering and Regenerative Medicine*. 2021;18;713-735. **(IF:4.169) (Lovely Professional University, India)**
51. Sanapalli BK, Ambhore NS, Kuppuswamy G, Krishnamurthy T, Karri VV. Doxycycline Loaded Collagen-Chitosan Composite Scaffold for the Accelerated Healing of Diabetic Wounds. *Journal of Visualized Experiments: Jove*. 2021;(174). (Video article) **(IF:1.355) (North Dakota State University, USA)**
52. Mude L, Sanapalli BK, Singh SK, Karri VV. Overview of in situ gelling injectable hydrogels for diabetic wounds. *Drug Development Research*. 2021;82(4):503-522. **(IF:4.360) (Lovely Professional University, India)**
53. Khursheed R, Singh SK, Gulati M, Wadhwa S, Kapoor B, Pandey NK, Chellappan DK, Gupta G, Jha NK, Dua K, Kapoor DN. Exploring role of polysaccharides present in Ganoderma lucidum extract powder and probiotics as solid carriers in development of liquisolid formulation loaded with quercetin: A novel study. *International journal of biological macromolecules*. 2021; 183:1630-39. **(IF:6.953) (Lovely Professional University, India)**
54. Karthika C, Hari B, Mano V, Radhakrishnan A, Janani SK, Akter R, Kaushik D, Rahman MH. Curcumin as a great contributor for the treatment and mitigation of colorectal cancer. *Experimental Gerontology*. 2021;152: e111438. **(IF: 3.6) (Southeast University, Bangladesh)**
55. Rajan L, Radhakrishnan A, Selleppan G, Mohankumar SK. Susceptible genetic polymorphisms and their association with adverse effects of orlistat therapy. *Obesity Medicine*. 2021; 25: e100360. **(Swansea University, United Kingdom)**

56. Karthika C, Hari B, Rahman MH, Akter R, Najda A, Albadrani GM, Sayed AA, Akhtar MF, Abdel-Daim MM. Multiple strategies with the synergistic approach for addressing colorectal cancer. *Biomedicine & Pharmacotherapy*. 2021; 140: 111704. (IF: 6.529)

**Department of Pharmaceutical Analysis (24)**

57. Sureshkumar A, Nagappan KV. A Comprehensive Review on the Prevalence of Vitamin D Deficiency among School-Aged Children around the World. *Journal of Young Pharmacists*. 2021;13(1):34-39.
58. Nagappan KV, Suresh kumar A. A Comprehensive Review on the Biomarkers of Bone Remodeling in Vitamin D Deficiency. *Indonesian Journal of Pharmacy*. 2021;32(3):280-90.
59. Tharik AM, Meyyanathan SN. Swiss ADME predictions for anti-cancer drug molecules prior In Vitro In Vivo Correlations (IVIVC). *Journal of Xi'an Shiyou University*. 2021;17(07):142-169.
60. Bora R, Meyyanathan S. Development and Validation Using Protein Precipitation Extraction For The Estimation of Dexamethasone In Spiked Human Plasma By Liquid Chromatography Tandem Mass Spectrometry. *Journal of Xi'an Shiyou University*. 2021;17(07): 132-141.
61. Nayak R, Narendran ST, Meyyanathan SN, Babu B. Analytical quality by design-based LC-MS/MS method for the determination of Riociguat in its formulations. *Journal of Applied Pharmaceutical Science*. 2021;11(12):100-6.
62. Bala SM, Nagarajan JSK, Bhuvaneshwaran A, Anbu K, Aparna SA. Thorough Review of Bioanalytical and Method Developed for the Estimation of Diclofenac in Biological Fluids. *International Journal of Pharmaceutical Research*. 2021;13(02):1569-1575.
63. Bhuvaneshwaran A, Nagarajan JSK, Anbu K, Aparna S, Balasundaram M. A Review on Bioanalytical Method Development and Validation for the Estimation of Metformin in Biological Matrices. *International Journal of Pharmaceutical Research*. 2021;13(02):1576-1583.
64. Anbu K, JSK N, Bala SM, Bhuvaneshwaran A, Aparna S. A review on bio analytical method development and validation for the estimation of azelnidipine in biological matrices. *European Journal of Biomedical and Pharmaceutical sciences*. 2021;8(6):272-278.

65. Tamadri D, Nagarajan JSK, Ann RJ. Concurrent Bio-Analysis and Validation of Empagliflozin, Dapagliflozin, Metformin and Linagliptin in Spiked Human Blood Plasma by RPLC-MS/MS. *International Journal of Pharmaceutical Research*. 2021;13(02):1952-1964.
66. Bora R, Jeyaprakash MR, Jubie S. Effect of Anti-Retroviral Drug Impurity/Related Substances on The CCR5 And/OR CXCR4 Receptors Binding Sites to Revise Resistance Mechanisms in the Clinical Implications Using Molecular Docking Studies. *Current Drug Discovery Technologies*. 2021 Mar 28. (Online ahead of print)
67. Wilson JV, Karthikeyan LV, Parida SK, Nath BC, Jeyaprakash MR. Recent Advances and Developments in Hyphenated Techniques and their Applications. *Journal of Pharmaceutical Research International*. 2021;32(43);58-68.
68. Debnath S, Jeyaprakash MR, Bora R, Jubie S. Synthesis based related substances Separation, Isolation, and characterization by LCMS in seizures control entity. *Journal of Xi'an Shiyou University*. 2021;17(7):93-98
69. Bikash CN, Shubham KP, Karthikeyan LV, Jero VW, Jeyaprakash MR. Industrial Hazards Management and its Current Regulatory Protocols. *International Journal of Pharma Research*. 2021;12(1):1-10
70. Channamade C, Raju JM, Vijayaprakash SB, Bora R, Shekhar NR. Promise Approach on Chemical Stability Enhancement of Papain by Encapsulation System: A Review. *Journal of Young Pharmacists*. 2021;13(2):87-96.
71. Karthikeyan LV, Jero VW, Shubham KP, Bikash CN, Jeyaprakash MR. Risk of Parabens in Human Use. *International Journal of Pharmaceutical Research*. 2021;13(1):4100-4113.
72. Bora R, Jeyaprakash MR, Debnath S, Jubie S. Analytical method development, validation, Synthesis, Characterization and Forced degradation study of Tenofovir Disoproxil Fumarate and its impurities. *Journal of Xi'an Shiyou University*. 2021;17(7):179-186.
73. Mukherjee K, Narendran ST, Babu B, Mishra S, Meyyanathan SN. Method development and validation of propofol by reverse phase hplc and its estimation in commercial formulation. *Research Journal of Pharmacy and Technology*. 2021 Jun 1;14(6):3139-42.

74. Narendran ST, Babu B, Srikanth J, Meyyanathan SN. A systematic approach for stability-indicating HPLC method optimization for Nilotinib bulk through design of experiments: Application towards characterization of base degradation products by mass spectrometry. In *Annales Pharmaceutiques Françaises*. 2021 Jul 1;79(4): 387-394).

**Publications jointly with other National/International universities/organisations/industries**

75. Peraman R, Bandi J, Kondreddy VK, Kalva B, Kothakota SG, Paritala J, Nagappan K, Yirgamreddy PR. Analytical quality by design approach versus conventional approach: Development of HPLC-DAD method for simultaneous determination of etizolam and propranolol hydrochloride. *Journal of Liquid Chromatography & Related Technologies*. 2021;44(34):197-209. **(IF:1.312) (Raghavendra Institute of Pharmaceutical Education and Research (RIPER)–Autonomous, India)**
76. Rajendran K, Chekraverthy BK, Devendran RS, Sajini RJ, Nagappan K. Simultaneous quantification of oxcarbazepine and its active metabolite in spiked human plasma using ultra performance liquid chromatography–MS/MS. *Bioanalysis*. 2021;13(16):1259-73. **(IF:2.681) (Scitus Pharma Services Pvt Ltd, India)**
77. Rajendran K, Anoop K, Nagappan K, Sekar GM, Rajendran SD. Ultra-Performance Liquid Chromatography Coupled with a Triple Quadrupole Mass Spectrometric Method for the Quantification of Antiepileptic Drugs Methsuximide and Normesuximide in Human Plasma and its Application in a Pharmacokinetic Study. *Current Pharmaceutical Analysis*. 2022;18(2):228-39. **(IF:0.890) (Scitus Pharma Services Pvt Ltd, Chennai)**
78. Peraman R, Chiranjeevi P, Reddy YP, Kumar KV, Vasantharaju SG, Nagappan K. Beta-Alanine and Tris-(hydroxyl methyl) Aminomethane as Peak Modifiers in the Development of RP–HPLC Methods Using Aceclofenac and Haloperidol Hydrochloride as Exemplar Drugs. *Journal of Chromatographic Science*. 2021, 23. **(IF:1.618) (Raghavendra Institute of Pharmaceutical Education and Research, India)**
79. Meyyanathan SN, Sudarvizhi T, Kalaivani M. Development and validation of sensitive HPLC method for estimation of imatinib mesylate in its pharmaceutical dosage form. *International Journal of Advance and Innovative Research*. 2021;8(4):112-118 **(Indian Pharmacopoeia Commission)**

80. Senthamil KM, Kumudhavalli MV, Nagarajan JSK. GC MS analysis of one Ayurvedic polyherbal formulation “Patoladi kwatha churnam” for psoriasis. *International Journal of Botany Studies*. 2021;6(5):91-97 **(Thanjavur Medical College, India)**

**Department of Pharmaceutical Chemistry (32)**

81. Swarupa RG, Mohammed AA. Design, synthesis, antibacterial evaluation and molecular docking studies of some newer benzothiazole containing aryl and alkaryl hydrazides. *Chemistry & biodiversity*. 2021;18: e2100117 **(IF: 2.408)**
82. Yele V, Azam MA, Wadhvani AD. Synthesis, Molecular Docking and Biological Evaluation of 2-Aryloxy-N-Phenylacetamide and N'-(2-Aryloxyoxyacetyl) Benzohydrazide Derivatives as Potential Antibacterial Agents. *Chemistry & Biodiversity*. 2021;18(4): e2000907. **(IF: 2.408)**
83. Yele V, Sanapalli BK, Wadhvani AD, Mohammed AA. Benzohydrazide and Phenylacetamide Scaffolds: New Putative ParE Inhibitors. *Frontiers in Bioengineering and Biotechnology*. 2021; 9:505-515. **(IF: 5.890)**
84. Gurram SR, Azam MA. GyrB inhibitors as potential antibacterial agents: a review. *Monatshefte für Chemie-Chemical Monthly*. 2021;152(7):725-44. **(IF: 1.451)**
85. Kalirajan R, Vulsibodhya S, Kannan R, Gowramma B, Swaminathan G. Chalcone Substituted 9-Anilinoacridines as HER2 Inhibitors Targeting Breast Cancer – An In-Silico Approach. *International Journal of Pharma Research*. 2021;12(1):24-30.
86. Kannan R, Kalirajan R, Baliwada A, Potlapati V, Gowramma B. Synthetic and semi-synthetic drugs as a promising therapeutic choice for covid-19 treatment - a critical review. *Journal of Xi'an Shiyu University*. 2021;64(08):2-17.
87. Vadivelan S, Jebaseelan, B. Edwin Jose, Meera R, Manikandan S, Kalirajan R, Sarojini T. Phytochemical Investigation and Antimicrobial Activities of Leaf Extract of *Muntingia calabura* Linn. *International Journal of Pharmaceutical Sciences Review and Research*. 2021; 69(2):42-46.

88. Naresh P, Pottababula SS, Selvaraj J. Dengue virus entry/fusion inhibition by small bioactive molecules; A critical review. *Mini reviews in medicinal chemistry*. 2021. (online ahead of print) **(IF:3.862)**
89. Naresh P, Wadhvani A, Jubie S. Dual Modulators of p53 and Cyclin D in ER Alpha Signaling by Albumin Nanovectors Bearing Zinc Chaperones for ER-positive Breast Cancer Therapy. *Mini Reviews in Medicinal Chemistry*. 2021;21(7):792-802. **(IF:3.862)**
90. Kumar S, Saha N, Naresh P, Jubie S. Anticancer Potential of Phytoconstituents Modulating Na<sup>+</sup>/K<sup>+</sup> ATPase Pump; A Novel Repurposing Strategy. *Current Trends in Biotechnology and Pharmacy*. 2021;15(3):268-81.
91. Murugesan SK, Lakshmanan K, Pamu D, Venkatesan A, Karri VV, Gowramma B. Once-daily sustained release tablet of zaltoprofen: formulation and evaluation. *Journal of Xi'an Shiyu University*. 2021;64(07):1-12.
92. Byran G, Ramachandran SK, Lakshmanan K, Rajagopal K, Subramania Nainar M. Development and validation of LC/MS method for the determination of meclizine enantiomers in pharmaceutical formulations. *Drug Development and Industrial Pharmacy*. 2021;47(3):361-366. **(IF:3.225)**
93. Lakshmanan K, Byran G. Identification of benzimidazole containing 4 H–chromen–4–one derivative as potential MAP kinase inhibitors by in-silico approaches. *Journal of Receptors and Signal Transduction*. 2021;41(2):153-158. **(IF:2.092)**
94. Byran G, Ashwini J, Lakshmanan K, Rajagopal K, Subramanian G, Sn M. New stability chiral RP-HPLC method for degradation products determination in midodrine hydrochloride. *Drug Development and Industrial Pharmacy*. 2021;47(7):1-21. **(IF:3.225)**
95. Eldhose E, Lakshmanan K, Krishnamurthy PT, Rajagopal K, Mohammed M, Prudviraj P, Byran G. 1, 3, 4-Thiadiazolo (3, 2-A) Pyrimidine-6-Carbonitrile Scaffold as PARP1 Inhibitors. *Anti-cancer Agents in Medicinal Chemistry*. 2021;21(15): 2050-2065. **(IF:2.505)**
96. Gowramma B, Kumar RS, Lakshmanan K, Kalirajan R, Meyyanathan SN. A New Stability-indicating Chiral RP-HPLC Method for the Determination of Degradation Products in Meclizine Hydrochloride. *Current Pharmaceutical Analysis*. 2021;17(8):1075-87. **(IF:0.890)**

97. Swaroop AK, Chaitanya MV, Meena S, Subramanian G, Natarajan J, Selvaraj J. Plant Derived Immunomodulators; A Critical Review. *Advanced Pharmaceutical Bulletin*. 2021;2(1).1-28.
98. Murugesan R, Sureshkumar R, Radhakrishnan A, Jupudi S, Chennu M. Multi walled Carbon Nanotubes as Nanomaterial Tool in the Management of Prostate Cancer: A Possible Nanoformulation Approach. *Advanced Pharmaceutical Bulletin*. 2021. (Online ahead of Print)
99. Sanapalli BK, Yele V, Jupudi S, Karri VV. Ligand-based pharmacophore modeling and molecular dynamic simulation approaches to identify putative MMP-9 inhibitors. *RSC Advances*. 2021;11(43):26820-31. **(IF: 3.361)**

#### **Publications jointly with other National/International universities/organisations/industries**

100. Vadivelan S, Edwin J, Manikandan S, Jebaseelan S, Meera R, Kalirajan R, Sarojini T. Hepatoprotective Potential of Mimosa pudica L Leaf Extracts against Paracetamol Induced Hepatotoxicity in Rats. *International Journal of Pharmaceutical Sciences Review and Research*. 2021;69(2):37-41. **(Srisairam Siddha Medical College and Research Centre, India)**
101. Yele V, Sigalapalli DK, Jupudi S, Mohammed AA. DFT calculation, molecular docking, and molecular dynamics simulation study on substituted phenylacetamide and benzohydrazide derivatives. *Journal of Molecular Modeling*. 2021;27(12):359-371. **(IF:1.810) (Vignan Pharmacy College, India)**
102. Yele V, Sanapalli BK, Mohammed AA. Imidazoles and benzimidazoles as putative inhibitors of SARS-CoV-2 B. 1.1. 7 (Alpha) and P. 1 (Gamma) variant spike glycoproteins: A computational approach. *Chemical Papers*. 2021. (Online ahead of print) **(IF: 2.097) (Faculty of Pharmacy, Marwadi University, India)**
103. Selvaraj J, Rajan L, Selvaraj D, Palanisamy D, Mohankumar SK. Identification of (2 R, 3 R)-2-(3, 4-dihydroxyphenyl) chroman-3-yl-3, 4, 5-trihydroxy benzoate as multiple inhibitors of SARS-CoV-2 targets; a systematic molecular modelling approach. *RSC Advances*. 2021;11(22):13051-60. **(IF:3.361) (Amrita Molecular Modelling and Synthesis Research Lab, India)**



104. Raja MM, Selvaraj J, Pottabathula SS, Anjana GV, Kathiravan MK. In silico Screening of Chemical Constituents in Rasam as a Beneficial Supplementary Treatment for Novel Coronavirus. *Journal of Natural Remedies*. 2021;21(4):357-65. **(Parul Institute of Pharmacy and Research, India)**
105. Naresh P, Selvaraj A, Shyam SP, Murugesan S, Sathianarayanan S, Namboori PKK, Jubie S. Targeting a conserved pocket (n-octyl- $\beta$ -D-glucoside) on the dengue virus envelope protein by small bioactive molecule inhibitors. *Journal of Biomolecular Structure and Dynamics*. 2021. **(BITS Pilani, India)**
106. Naresh P, Sundar P, Girija K, Pradheesh SJ, Santhosivan AG, Swaroop AK, Jubie S. Drug repurposing of Daclatasvir and Famciclovir as antivirals against dengue virus infection by in silico and in vitro techniques. *Indian Journal of Biochemistry and Biophysics*. 2021;58(6):557-64. **(Mother Teresa Post Graduate & Research Institute of Health Sciences, India)**
107. Balaji H, Selvaraj A, Saha N, Sundar PS, Jubie S, Mohankumar SK. Distinct Modulation of Wild-Type and Selective Gene Mutated Vitamin D Receptor by Essential Polyunsaturated Fatty Acids. *Mini Reviews in Medicinal Chemistry*. 2021;21(17):2612-25. **(IF:3.862) (Altem Technologies, India)**
108. Gomathy S, Farhath S, Naina MJ, Ashish DW, Gowramma B, Shanish A. Docking studies and synthesis of novel 4-thiazolidinone derivatives bearing 1, 3, 4-oxadiazole moiety as sirt-3 activators targeting parkinson's disease. *Rasayan Journal of Chemistry*. 2021;15(1):1441-1446. **(Government Medical College, Kottayam, India)**
109. Sherin F, Gomathy S, Antony S. Sirtuin in Neurological Disorders. *Current Drug Research Reviews Formerly: Current Drug Abuse Reviews*. 2021;13(2):140-7. **(Kerala University of Health Sciences, India)**
110. Rajkumar S, Sambathkumar R, Gomathi S, Kannan C. Phytochemical and Neuro Pharmacological Evaluation of *Cyclea peltata* Lam Roots. *Annals of the Romanian Society for Cell Biology*. 2021;7: 212-23. **(J.K.K Nattraja College of Pharmacy, India)**
111. Lakshmanan K, TK P, K. Pai SR, Rajagopal K, Byran G. Discovery of potential inhibitors for stat3: ligand based 3D pharmacophore, virtual screening, molecular docking, dynamic studies and in vitro evaluation. *Journal of Biomolecular Structure and Dynamics*. 2021 Jul 19:1-9. **(Manipal College of Pharmaceutical Sciences, Manipal, Karnataka, India)**

112. Subramanian G, Ayyamperumal S, Chand Jagdish, Jupudi S, Antony S. Molecular docking studies, *in silico* ADMET screening of selected novel azetidine substituted naphthalenes targeting protease enzyme against SARS Cov-19. *Journal of Medical Pharmaceutical and Allied Sciences*. 2021;10(6): 67-72. **(Government Medical College, Kottayam, India)**

### **Department of Pharmacology (29)**

113. Krishnamurthy PT. Coronavirus Disease 2019: Virology and Drug Targets. *Infectious Disorders Drug Targets*. 2021; 21(8): e160921188929. **(IF:3.166)**
114. Deepak VS, Praveen TK, Amritha CK. Neuroprotective Activities of Orientin: A Review. *Current Traditional Medicine*. 2021.
115. Magham SV, Thaggikuppe KP, Shaji N, Mani L, Balasubramanian S. Cannabinoid receptor 2 selective agonists and Alzheimer's disease: An insight into the therapeutic potentials. *Journal of neuroscience research*. 2021; 99(11):2888-905. **(IF:4.164)**
116. Kumari GK, Kiran AV, Krishnamurthy PT. Preliminary evaluation on the beneficial effects of pioglitazone in the treatment of endometrial cancer. *Medical Oncology*. 2021;38(6):1-9. **(IF:3.064)**
117. Diya C, Raja D, Keerthana C, Anand VPR. A typical diabetes: lada, modyp and type 3 diabetes - an evidence based review. *Journal of Xi'an Shiyou University*. 2021;17(9):88-94.
118. Raja D, Elmutaz BM, Manju RJ3, Liz M, Jayakumar C, Anand VP. Depression And Anxiety In Cardiovascular Diseases: Emerging Role Of Psychotherapy. *International Journal of Pharmaceutical Research*. 2021;13(1):965-980.
119. Anand VK, Vigneshwar S, Vishal C. A Review on Dementia with Lewy Body (DLB). *International Journal of Pharmaceutical Research*. 2021;13(1): 981-989.
120. Anand VK. Smartphone applications for healthcare professionals: A systematic review in three platforms. *Journal of Xi'an Shiyou University*. 2021;17(09):103-164.

121. Kumar AP, Kumar BR, Jeyarani V, Dhanabal SP, Justin A. Glitazones, PPAR- $\gamma$  and Neuroprotection. Mini reviews in medicinal chemistry. 2021;21(12):1457-64. **(IF:3.862)**
122. Prabitha P, Justin A, Kumar TD, Chinaswamy M, Kumar BP. Glitazones Activate PGC-1 $\alpha$  Signaling via PPAR- $\gamma$ : A Promising Strategy for Anti parkinsonism Therapeutics. ACS chemical neuroscience. 2021; 12:2261–2272. **(IF:4.418)**
123. Justin A, Thomas P, Rao GN, Jeyabalan JB, Narendar C, Ponnusankar S, Selvaraj J, Hariprasad R. Chandamarutha chenduram, an Indian traditional Siddha preparation attenuated the neuronal degeneration in ischemic mice through ameliorating cytokines and oxy-radicals mediated EAAT-2 dysfunction. Journal of Ethnopharmacology. 2022; 284:114827. **(IF:4.360)**
124. Mani M, Balasubramanian S, Manikandan KR, Kulandaivel B. Neuroprotective potential of Naringenin-loaded solid-lipid nanoparticles against rotenone-induced Parkinson's disease model. Journal of Applied Pharmaceutical Science. 2021;11(02):19-28.
125. Saravanan J, Praveen TK. Role of microgliosis, oxidative stress and associated neuroinflammation in the pathogenesis of Parkinson's disease: The therapeutic role of Nrf2 activators. Neurochemistry International. 2021;145: e105014. **(IF: 3.921)**
126. Kiran AV, Kumari GK, Krishnamurthy PT. Preliminary evaluation of anticancer efficacy of pioglitazone combined with celecoxib for the treatment of non-small cell lung cancer. Investigational New Drugs. 2021Aug 2:1-9. **(IF: 3.85)**

#### **Publications jointly with other National/International universities/organisations/industries**

127. Abdukhakimov MK, Garipov IT, Khaydarov RA, Khaidarov RR, Gapurova OU, Sadikov II, Praveen TK, Evgrafova SY. Novel Ion Exchange Fibers For Wastewater Treatment From Heavy Metal Ions. Управление техносферой. 2021;4(1):88-97. **(Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Uzbekistan)**

128. Krishnamurthy PT, VVV RK, Vishwanath K, Narendran ST, Babu B, Krishnaveni N. Development and validation of a sensitive LC-MS/MS method for pioglitazone: application towards pharmacokinetic and tissue distribution study in rats. RSC Advances. 2021;11(19):11437-43. **(IF:3.361) (Sai Advantium Pharma Ltd., Pune, India)**
129. Deepak M, Salman M, Balachandran I. Purification of Bhallathaka (*Semecarpus anacardium* Lf) enhanced anti-cancer activity. Regulatory Toxicology and Pharmacology. 2021; 122:104898. **(IF:3.271) (Arya Vaidya Sala, India)**
130. Chintamaneni PK, Krishnamurthy PT, Pindiprolu SK. Polysorbate-80 surface modified nano-stearylamine BQCA conjugate for the management of Alzheimer's disease. RSC Advances. 2021; 11(10):5325-34. **(IF:3.361) (Raghavendra Institute of Pharmaceutical Education and Research (RIPER), India)**
131. Kiran AV, Kumari GK, Krishnamurthy PT, Khaydarov RR. Tumor microenvironment and nanotherapeutics: intruding the tumor fort. Biomaterials Science. 2021; 9:7667–7704 **(IF:6.843) (Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Uzbekistan)**
132. Kaur A, Tiwari R, Tiwari G, Ramachandran V. Resveratrol: A vital therapeutic agent with multiple health benefits. Drug Research. 2021;72(1):5-17. **(Pranveer Singh Institute of Technology, India)**
133. Tiwari R, Tiwari G, Ramachandran V, Singh A. Non-conventional therapy of lethal pneumonia symptoms and viral activity of sars-cov-2 during cov-id-19 infection using bee venom compound, melittin: a hypothesis. Pharma Times. 2021; 53(04):14-21. **(Pranveer Singh Institute of Technology, India)**
134. Ramachandran V, Nanjundan P, Jasti T, Elumalai M. Comparative effects of Venlafaxine and Alendronate on Biochemical, Bone mechanical and Anti-inflammatory properties in ovariectomized rats. Research Journal of Pharmacy and Technology. 2021;14(7):3553-8. **(UCSI University, Malaysia)**
135. Ruchi T, Gaurav T, Akanksha L, Vadivelan R, Awani R. Melittin: A Natural Peptide with Expanded Therapeutic Applications. The Natural Product Journal. 2021; 10:1-17. **(Pranveer Singh Institute of Technology, India)**
136. Ruchi T, Gaurav T, Ajeet Y, Vadivelan R. Development and Evaluation of Herbal Hair Serum: A traditional way to Improve Hair Quality. The Open Dermatology Journal. 2021; 15:52-58 **(Pranveer Singh Institute of Technology, India)**

137. Tiwari R, Tiwari G, Lahiri A, Vadivelan R. Localized Delivery of Drugs through Medical Textiles for Treatment of Burns: A Perspective Approach. *Advanced Pharmaceutical Bulletin*. 2021;11(2): 248-260. **(Pranveer Singh Institute of Technology, India)**
138. Faizan S, Kumar BP, Naishima NL, Ashok T, Justin A, Kumar MV, Chandrashekarappa RB, Raghavendra NM, Kabadi P, Adhikary L. Design, parallel synthesis of Biginelli 1, 4-dihydropyrimidines using PTSA as a catalyst, evaluation of anticancer activity and structure activity relationships via 3D QSAR studies. *Bioorganic Chemistry*. 2021;117: e105462. **(IF:5.275) (NGSM Institute of Pharmaceutical Sciences, India)**
139. Kumar AP, Singh N, Nair D, Justin A. Neuronal PET tracers for Alzheimer's disease. *Biochemical and biophysical research communications*. 2022; 587:58-62. **(IF:3.575) (Indian Institute of Science, Bangalore, India)**
140. Karuppaiah A, Babu D, Selvaraj D, Natrajan T, Rajan R, Gautam M, Ranganathan H, Siram K, Nesamony J, Sankar V. Building and behavior of a pH-stimuli responsive chitosan nanoparticles loaded with folic acid conjugated gemcitabine silver colloids in MDA-MB-453 metastatic breast cancer cell line and pharmacokinetics in rats. *European Journal of Pharmaceutical Sciences*. 2021; 165:105938. **(IF: 4.384) (Skaggs School of Pharmacy, University of Montana, United States)**
141. Pindiprolu SK, Krishnamurthy PT, Dev C, Chintamaneni PK. DR5 antibody conjugated lipid-based nanocarriers of gamma-secretase inhibitor for the treatment of triple negative breast cancer. *Chemistry and Physics of Lipids*. 2021 Mar 1;235: 105033. **(IF: 3.329) (Raghavendra Institute of Pharmaceutical Education and Research, India)**

#### **Department of Pharmaceutical Biotechnology (12)**

142. Raghavan R, Bhat A, Rajesh kumar R. Evaluation of Anti-venom Activity of Leaf Extract of *Wedelia trilobata*. *Journal of Xi'an Shiyou University*. 2021;17(09):601-613.
143. Arivuselvam R, Rajesh kumar R. The immunological war: Do or Die mechanism of Marburg virus. *Journal of Xi'an Shiyou University*. 2021;17(07):206-214.

### **Publications jointly with other National/International universities/organisations/industries**

144. Jose J, Dineshkumar B, Krishnakumar K, Rajesh kumar R, Tamilselvan N. Indian squid ink nano-suspension: formulation, characterization, in vitro anti-tumor activity against human breast cancer and human kidney epithelial cell lines. Research journal of biotechnology. 2021;16(5):174-80. **(St. James Hospital Trust Pharmaceutical Research Centre, India)**
145. Lonappan D, Dinesh kumar B, Krishna kumar K, Nair SK, Rajesh kumar R. Formulation of para-coumaric acid loaded chitosan nanoparticles: In Vitro neuroprotective effect against neuroblastoma cell line. Research Journal of Pharmacy and Technology. 2021;14(4):2286-90. **(St. James Hospital Trust Pharmaceutical Research Centre, India)**
146. Sivaa Arumugam R, Sindhu K, Rajesh KS. 3-Methyl-1-(3-Methylfuran-2-Yl) But-2-En-1-One, A Potential Volatile Secondary Metabolite Promising to Treat the Cancer in In-silico Studies. Natural volatiles & essential oils Journal. 2021; 16:13087-104. **(NGSM Institute of Pharmaceutical Sciences, India)**
147. Singh RK, Nayak P, Bharath Raj KC, Khandige PS, Sivaa Arumugam R, Sindhu K, Rajesh kumar R. Compliance and Assurance of Complete Manufacturing of Tablets Following Ich Q10. Natural volatiles & essential oils Journal. 2021; 22:6426-36. **(NGSM Institute of Pharmaceutical Sciences, India)**
148. Chigurupati S, Al-murikhy A, Almahmoud SA, Almoshari Y, Ahmed AS, Vijaya balan S, Felemban SG, Palanimuthu VR. Molecular docking of phenolic compounds and screening of antioxidant and antidiabetic potential of Moringa oleifera ethanolic leaves extract from Qassim region, Saudi Arabia. Saudi Journal of Biological Sciences. 2021. (In Press). **(IF: 4.219) (Fakeeh College for Medical Sciences, Kingdom of Saudi Arabia)**
149. Palanimuthu VR, Baskar MP, Anaigounder M, Ravishankar AS, Krishnan D, Selvaraj S. Development and testing of a simple, economical, and reliable lab-scale static model to study bacterial biofilm using Escherichia coli. Journal of Xi'an Shiyou University. 2021;17(8):78-91. **(Nirmala College for Women, India)**

150. Chigurupati S, Vijayabalan S, Palanimuthu VR, Das S, Bhatia S. Bacterial Endophyte Inhabiting *Durio zibethinus* and its Radical Scavenging and Antidiabetic Potential. *Indian Journal of Pharmaceutical Education and Research*. 2021;55(3):857-62. **(IF: 0.686) (Taylor's University, Malaysia)**
151. Chigurupati S, Palanimuthu VR, Kanagaraj S, Sundaravadivelu S, Varadharajula VR. Green synthesis and in silico characterization of 4-Hydroxy-3-methoxybenzaldehyde Schiff bases for insulysin inhibition—a potential lead for type 2 diabetes mellitus. *Journal of Applied Pharmaceutical Science*. 2021;11(07):063-71. **(Qassim University, Al-Rass Region, Saudi Arabia)**
152. Bungau SG, Behl T, Singh A, Sehgal A, Singh S, Chigurupati S, Vijayabalan S, Das S, Palanimuthu VR. Targeting Probiotics in Rheumatoid Arthritis. *Nutrients*. 2021;13(10):3376. **(IF: 5.719) (University of Oradea, Romania)**
153. Rajesh C, Palanimuthu VR, Palanichelvam K. Fatty acids and its derivatives of *Acorus calamus* Linn. rhizome induce stem cell-mediated cell division in plants and animals. *Biocatalysis and Agricultural Biotechnology*. 2021;36:e102153. **(Kalasalingam Academy of Research and Education, India)**

#### **Department of Pharmacognosy (20)**

154. Chalichem NS, Jupudi S, Yasam VR, Basavan D. Dipeptidyl peptidase-IV inhibitory action of Calebin A: An in silico and in vitro analysis. *Journal of Ayurveda and Integrative Medicine*. 2021;12(4):663-72.
155. Sruthi R, Karthikeyan LY, Kavitha K, Kartheek S, Duraiswamy B. A Review on Herbal Plants Used As Immunomodulators. *International Journal of Pharmaceutical Research*. 2021;13(2):1814-1824.
156. Arvind P, Priyadarshini S, Duraiswamy B, Dhanabal SP, Ramu G. UV Detection and Avoidance of Protein in *Basella alba* leaf Mucilage Polysaccharide by differential precipitation. *Research Journal of Pharmacy and Technology*. 2021;14(6):3093-6.
157. Navanita SK, Umapathi NG, Govindan R. Laboratory Practices for Purification of Polysaccharide. *Journal of University of Shanghai for Science and Technology*. 2021;23(10):174-78.
158. Govindan R. Effect of Steaming On The Antioxidants Of *Brassica Oleracea* Sprout, A Cool-Weather Crop Collected From Nilgiris. *Bulletin of Pharmaceutical Sciences*. 2021;44(2):403-9.

159. Janani SK, Dhanabal SP, Suresh kumar R, Upadhyayula SS, Karthika C. Guardian of genome on the tract: wild type p53-mdm2 complex inhibition in healing the breast cancer. *Gene*. 2021; 786:145 **(IF: 3.688)**.
160. Sameer V, Smita D, Dhanabal SP. Cellular Uptake Pathways of Nanoparticles: Process of Endocytosis and Factors Affecting Their Fate. *Current Pharmaceutical Biotechnology*. 2021. **(IF: 2.83)**.
161. Dixit SP, Rajan L, Dhanabal SP, Mohankumar SK. Importance of Iron Absorption in Human Health: An Overview. *Current Nutrition & Food Science*. 2021;17(3):293-301.
162. Som S, Antony J, Dhanabal SP, Ponnusankar S. Phytochemical Profiling of *Hemidesmus indicus* (L.) R. Br. ex Schult and its Antioxidant, Anti-Inflammatory and Neuroprotection Linked Enzyme Inhibitory Properties. *Pharmacognosy Journal*. 2021;13(1):1-17.
163. Akilesh SM, Dhanabal SP, Wadhvani A. Repositioning of Drugs to Counter COVID-19 Pandemic-An Insight. *Current Pharmaceutical Biotechnology*. 2021;22(2):192-9. **(IF: 2.83)**.
164. Vedpal, Jupudi S, Jubie S, Deepika NP, Dhanabal SP. A new pyrimidine alkaloid from the roots of *Tadehagi triquetrum* (L.) H. Ohashi. *Natural product research*. 2021;35(3):413-20. **(IF: 2.86)**

#### **Publications jointly with other National/International universities/organisations/industries**

165. Paul D, Mohankumar SK, Thomas RS, Kheng CB, Basavan D. Potential implications of angiotensin-converting enzyme 2 blockades on neuroinflammation in SARS-CoV-2 infection. *Current drug targets*. 2021 Nov 3. **(IF: 3.465) (Swansea University Medical School, UK)**.
166. Ravula AR, Teegala SB, Kalakotla S, Pasangulapati JP, Perumal V, Boyina HK. Fisetin, potential flavonoid with multifarious targets for treating neurological disorders: An updated review. *European Journal of Pharmacology*. 2021;910: e174492. **(IF: 4.432) (Anurag Group of Institutions, India)**
167. Shanker K, Shaik S, Vijayanandhan V, Sunilkumar RT, Mydin BS, P Dhanabal S. Folklore Herbal Plants as a Safe and Natural Hair Depilatories. *Journal of Pharmaceutical Research International*. 2021;33(49B): 278-289. **(University Sains Malaysia, Malaysia)**.



168. Govindan R, Krishna MG. Pharmacognostic study of Garden sage in Nilgiris. Journal of Xi'an Shiyou University, Natural Science Edition. 2021;17(08):01-12. **(Jawaharlal Nehru Technological University, India)**
169. Abel S, Jule LT, Belay F, Shanmugam R, Dwarampudi LP, Nagaprasad N, Krishnaraj R. Application of titanium dioxide nanoparticles synthesized by sol-gel methods in wastewater treatment. Journal of Nanomaterials. 2021; 2021: e 3039761. **(IF: 2.986) (Dambi Dollo University, Ethiopia)**
170. Abel S, Tesfaye JL, Shanmugam R, Dwarampudi LP, Lamessa G, Nagaprasad N, Benti M, Krishnaraj R. Green synthesis and characterizations of zinc oxide (ZnO) nanoparticles using aqueous leaf extracts of coffee (*Coffea arabica*) and its application in environmental toxicity reduction. Journal of Nanomaterials. 2021;2021: e3413350. **(IF: 2.986) (Dambi Dollo University, Ethiopia)**
171. Degefa A, Bekele B, Jule LT, Fikadu B, Ramaswamy S, Dwarampudi LP, Nagaprasad N, Ramaswamy K. Green Synthesis, Characterization of Zinc Oxide Nanoparticles, and Examination of Properties for Dye-Sensitive Solar Cells Using Various Vegetable Extracts. Journal of Nanomaterials. 2021; 2021: e3941923. **(IF: 2.986) (Dambi Dollo University, Ethiopia)**
172. Bulcha B, Leta Tesfaye J, Anatol D, Shanmugam R, Dwarampudi LP, Nagaprasad N, Bhargavi VL, Krishnaraj R. Synthesis of zinc oxide nanoparticles by hydrothermal methods and spectroscopic investigation of ultraviolet radiation protective properties. Journal of Nanomaterials. 2021; 2021: e 8617290. **(IF: 2.986) (Dambi Dollo University, Ethiopia)**
173. Bekele B, Degefa A, Tesgera F, Jule LT, Shanmugam R, Priyanka Dwarampudi L, Nagaprasad N, Ramasamy K. Green versus chemical precipitation methods of preparing zinc oxide nanoparticles and investigation of antimicrobial properties. Journal of Nanomaterials. 2021; 2021: e 9210817. **(IF: 2.986) (Dambi Dollo University, Ethiopia)**

### **Department of Pharmacy Practice (43)**

174. Som S, Antony J, Dhanabal SP, Ponnusankar S. Vernonia anthelmintica (L.) willd extract alleviates cognitive deficits and neurodegeneration induced by infusion of amyloid beta (1–42) in rats. Pharmacognosy Magazine. 2021;17(6):172. **(IF:1.085)**
175. Swati S, Justin A, Palanisamy DS, Sivasankaran P. Evaluation of neuroprotective potential of methanolic extract of Hemidesmus indicus extract in A $\beta$  (1-42) induced rats. International Journal of Research in Pharmaceutical Sciences. 2021;11(4):7495-7502.
176. Sivasankaran P, Hunsur NV, Chebrolu B, Vahini B, Balasubramaniam V. Assessment of prevalence of polypharmacy (irrational) among the elderly rural population of south india. Journal of Xi'an Shiyou University. 2021;17(08):18-23.
177. Chandrasekar K, Vahini B, Vijay V, Shalini R, Arun KP. Gentamicin pharmacokinetics and pharmacodynamic correlation in pediatrics—A systematic review. Journal of Applied Pharmaceutical Sciences, 2021;11(11):011–017.
178. Deepalakshmi M, Jerlin AR, Anuvikashni R, Dinesh R, Jeyaram BJ, Arun KP. Trigger tools for monitoring and reporting of adverse drug reactions in tuberculosis - A scientific tool for efficient reporting. Journal of Xi'an Shiyou University. 2021;17(09):405-412
179. Chandrasekar K, Saju SJ, Zechariah BH, John JA, Sadagoban GK, Arun KP. Drug Utilization Evaluation of Aminoglycosides, Gentamicin and Amikacin: A Retrospective study in pediatric patients at secondary care public hospital. Research Journal of Pharmacy and Technology. 2021;14(3):1247-50.
180. Jyothikrishna P, Bhavatharini M, Zechariah BH, Nair N, James P, Viswanathan V, Babu B, Varghese J, Orathel SP, Arun KP. Simulation Approach for Dosage Optimization of Colistimethate Sodium in Critically Ill South Indian Patients-A Pilot Study. Annals of the Romanian Society for Cell Biology. 2021;25(6):4331-5.
181. Jeyaram BJ, Shalini R, Arun KP, Deepalakshmi M. Auramine-o and Malachite Green Poisoning: Study of Clinical Profile. Journal of Xi'an Shiyou University. 2021;17(09):15-18.

182. Deepalakshmi M, Vijay V, Navaneethakrishnan S, Manikandan P, Arun K P, Ponnusankar S. An Online Module Series to Prepare Pharmacists to Facilitate Cognitive Pharmaceutical Services. *International Journal of Research in Pharmaceutical Sciences*. 2021;12(1): 66-71
183. Kartha GR, Babu DV, Tenzintsering S, Mani D. Comparison of Beers Criteria with START/STOPP Criteria for Detecting Potentially Inappropriate Medications in a Geriatric Setting. *Annals of the Romanian Society for Cell Biology*. 2021;25(4):224-30.
184. Deepalakshmi M, Kumar RS, Messiah Menoraj S, Raghavakrishna KR, Shalini S, Arun KP. A Comprehensive Review on Corticosteroids. *Annals of the Romanian Society for Cell Biology*. 2021;25(6):4219-29.
185. Deepalakshmi M, Samraj A, Diya C, Venkatesh J, Kamalrathinam RS, Arun KP. Case Report on Mild Anemia and Gastritis due to Zidovudine, Lamivudine and Nevirapine (ZLN) Regimen. *Research Journal of Pharmacy and Technology*. 2021;14(11):5911-2.
186. Basutkar RS, Vinod CE, Saju SJ, Chebrolu B, Ponnusankar S. Optimal dosing of lasmiditan in the management of acute migraine attack: A systematic review and meta-analysis. *Annals of Indian Academy of Neurology*. 2021;24(2):155. **(IF:1.383)**
187. Roopa SB, Thomas E, Divya P, Sivasankaran P. Correlation of Antenatal Depression Among the Iron And s 25(OH)D Deficient Pregnant Women: An Observational Study in A South Indian Population. *International Journal of Pharmaceutical Research*. 2021;13(2):3414-3420.
188. Singh B, Basutkar RS. Elevated maternal serum iron concentrations and decreased platelet count in women with pregnancy induced hypertension: A systematic review of observational studies. *Journal of Xi'an Shiyou University*. 2021;17(08):116-134.
189. Sagadevan S, Hari OS, Sirajudeen MJ, Ramalingam G, Basutkar RS. Effects of L-arginine on preeclampsia risks and maternal and neonatal outcomes: A systematic review and meta-analysis. *Asian Pacific Journal of Reproduction*. 2021;10(6):241.

190. Swathi SB, Prithika SI, Shiva S V, Manasa K, Rudrani T3, Sadagoban G K. Identification and Evaluation of Medication Errors in Pre- and Post-Operative Setting. *International Journal of Pharmaceutical Research*. 2021;13(1):4684-4690.
191. Sadagoban GK, Preetha S, Angela AE, Swathi SB, Ayilya M, Arun KP. Mellitus Patients: A Prospective Study. *International Journal of Pharmaceutical Research*. 2021;13(2):790-794.
192. Sadagoban GK, Baiju A, Sanjeev S, Ayilya M, Borra SS. A cumulative review on the utilisation of drug information services provided in India. *Journal of Pharmaceutical Health Services Research*. 2021;12(3):452-9.
193. Borra SS, Bhavya C, Poojitha T, Sadagoban GK, Parthasarathy AK. Effect of Oct3 Genetic Polymorphism on the Response of Metformin in Type 2 Diabetes Mellitus: Narrative Review. *Journal of Global Pharma Technology*. 2021;13(2):27-33.
194. Raja A, Sadagoban GK, Jemi RS, Renita C, Swathi SB. Empagliflozin managed Type 2 Diabetes Mellitus in Insulin induced Hypertension: A Case Report. *Journal of Global Pharma Technology*. 2021;13(12):14-17.
195. Sudarsan P, Balakrishna AG, Asir JA, Balu D, Gopal S, Krishnamoorthy SS. Development and validation of A-SOAP notes: Assessment of efficiency in documenting patient therapeutic records. *Journal of Applied Pharmaceutical Science*. 2021;11(10):001-6.
196. Borra SS, Chebrolu B, Thotakura P, Joice SB, Palanimuthu VR, Krishnamoorthy SG, Parthasarathy AK. Prevalence of OCT1 (rs628031) genetic polymorphism in south Indian population. *Journal of Applied Pharmaceutical Science*. 2021;11(10):035-41.
197. Saha AK, Suresh A, Eipe T, Nair N. Hydrosalpinx with Adhesion Colic: A Case Report. *Annals of the Romanian Society for Cell Biology*. 2021;25(4):9489-91.
198. Tamilselvan S, William DB, Jagadeesan S, Suresh A. Impact of Pharmacist-Given Patient-Counseling on Health-Related Quality of Life (HRQOL) of Haemodialysis Patients. *Age*. 2021;10(12):48-17647.
199. Aneena S, Dharshini MS, Pavithran T, Dharnish R, Arun R. Strategical clinical trials towards personalized medicine: A detailed review. *Journal of Xi'an Shiyou University, Natural Science Edition*. 2021;17(09):47-54.

200. Mahendra KR, Sanatkumar BN, Chetan B, Krishna D, Vishwas HN. Assessment Of Knowledge, Attitude And Practice Towards Covid-19 Among Pharmacy Students In South India During Lockdown: A Cross Sectional Study. Journal of Xi'an Shiyou University, Natural Science Edition. 2021;17(07):271-277.
201. Sankar IP, Betsy SB, Ramakrishna PP, Ponnusankar S, Vishwas HN. Prevalence Of Smartphone Addiction And Its Impact On Sleep Quality And Associated Neck Disabilities Among University Students Of Ooty, India. Journal of Xi'an Shiyou University, Natural Science Edition. 2021;17(07):215-223.
202. Jeyaram Bharathi J, Shalini R, Arun KP, Deepalakshmi M. Auramine-o and Malachite Green Poisoning: Study of Clinical Profile. Journal of Xi'an Shiyou University, Natural Science Edition. 2021;17(9):15-18.
203. Vahini B, Narenthiran CK, Keerthana C. Rheumatic Heart Disease in Indian Paediatrics: A Review. Journal of Pharmaceutical Research International. 2021;33(34A): 27-33.
204. Nair HG, Thomas SR, Prithika SI, Samraj PA, Sumathi K, Chandrasekar K. Vanishing bile duct syndrome in pediatric population: An updated case-based review. Journal of Applied Pharmaceutical Science. 2021;11(10):134-9.
205. Anusha RJ, Bencer WD, Chandrasekar K. Naturally occurring fish poisoning illness—An evidence-based review. Journal of Applied Pharmaceutical Science. 2021;11(10):140-6.
206. Keerthana C, Vijay V, Shalini R, Arun KP. Gentamicin pharmacokinetics and pharmacodynamic correlation in pediatrics—A systematic review. Journal of Applied Pharmaceutical Science. 2021;11(11):11-17.

#### **Publications jointly with other National/International universities/organisations/industries**

207. Ramya R, Balasubramaniam V, Gowthamarajan K, Sivasankaran P. Current concepts and clinical importance of glycemic variability. Diabetes & Metabolic Syndrome: Clinical Research & Reviews. 2021; 15: e627636. **(Govt. Medical College Hospital, Udthagamandalam)**
208. Rihana BP, Ashish W, Balasubramaniam V, Ponnusankar S. Need for the Implementation of Antibiotic Policy in India: An Overview. International Journal of Current Research and Review. 2021;13(05):168-178. **(Govt. Medical College & Hospital, Ooty)**

209. Kabakama C, Pydimarri R, Ponnusankar S. A prospective study on assessment of clinically potential drug-drug interactions in hospital and community pharmacy prescriptions. African Journal of Pharmacy and Pharmacology. 2021;15(6):118-25. **(Muhimbili University of Health and Allied Sciences, Tanzania)**
210. Basutkar RS, Sagadevan S, Sri HO, Sirajudeen MJ, Ramalingam G, Gobinath P, Rajesh N, Sivasankaran P. A Study on the Assessment of Impact of COVID-19 Pandemic on Depression: An Observational Study among the Pregnant Women. The Journal of Obstetrics and Gynecology of India. 2021;71(1):28-35. **(Government Medical College and Hospital, Ooty, India)**
211. Benny BM, Nayudu GS, Khan MA, Gobinath P, Basutkar RS. A study to investigate the elevated maternal haemoglobin value as a risk biomarker for gestational diabetes: A nested case control study. Clinical Epidemiology and Global Health. 2021; 12:100897. **(Government and Medical College Hospital Ooty, India)**
212. Sadagoban GK, Meda V, Arun KP, Swathi SB. Case series on the Clinical evidence of Phenytoin toxicity: Is Ranitidine a cause?. International Journal of Pharmaceutical Research. 2021;13(2).1182-1188. **(Rami Reddy Memorial College of Pharmacy, India)**
213. Paramkusham V, Palakurthy P, sri Gurram N, Talla V, Vishwas HN, Jupally VR, Pattnaik S. Adverse events following pediatric immunization in an Indian city. Clinical and Experimental Vaccine Research. 2021;10(3):211-221. **(Talla Padmavathi College of Pharmacy, India)**
214. Sanatkumar B, Anusha S, Abhirami M T, Anisha V, Swamy AHMV, Mahendra KR, Vishwas H N. Dabigatran Induced Ecchymatous Patches: A Rare Case Report. Journal of Xi'an Shiyou University, Natural Science Edition. 2021;17(08):68-70. **(KLE College of Pharmacy, India)**
215. Hyder KM, Mohan J, Varma V, Ponnusankar S, Raja D. Impact of prediabetes education program on Knowledge, attitude and practice among prediabetic population of south India. Preventive medicine reports. 2021; 23: e101395. **(Aster Wayanad Specialty Hospital, India)**
216. Hyder KM, Mohan J, Varma V, Sivasankaran P, Raja D. Effects of Muscle-Specific Exercises Compared to Existing Interventions on Insulin Resistance among Prediabetes Population of South India. Journal of Natural Science, Biology and Medicine. 2021;12(2):230-241. **(Aster Wayanad Specialty Hospital, India).**