

CURRICULUM VITAE

S. VADIVUKKARASI,
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W/o P.Sasikumar,
1/207, Mariyamman
kovil Street, Odapalli,
Cauvery R.S,
Erode -638007.

Academic Experience

Worked as lecturer in Biochemistry department from 16 Feb'2005-Nov' 2006 at Sengunthar Arts and Science College, Tiruchengode. (1 year 9 mon 14 days)

Working as lecturer in Biochemistry department from 15 Mar'2010 – till date at KSR College of Arts and Science, Tiruchengode.

Educational Qualification

Degree	Institute / University	Year of Passing	Class	% of Marks
PhD Biochemistry (Full Time)	Kongunadu Arts and Science College, Bharathiar university.	July 2010	Highly commended	-
M.Phil Biochemistry (Full Time)	PSG College of Arts and Science, Bharathiar university.	Apr 2005	First class	71%
PGDBI (Bioinformatics)	Bharathiar University	May 2005	Second class	64%
M.Sc Biochemistry	PSG College of Arts and Science, Bharathiar university.	May 2003	First class	71%
PGDCA	Sethupathi ITI, Bharathiar University.	Oct 2002	First class With distinction	95%
B.Sc Biochemistry	Vellalar College for Women, Bharathiar University.	Apr 2001	First class With distinction	81%
HSC	Vellalar Girls Matriculation Higher Secondary School, Thindal.	Apr 1998	First class	76%
SSLC	Govt. Girls Higher Secondary School, Tiruchengode.	Mar 1996	First class	75%

Technical Experience

- ◆ Have experience in biochemical techniques.
- ◆ Have exposure in working with animal models as part of course curriculum.
- ◆ Interacted and collaborated extensively with researchers having significant experience.

Live project Experience

1. **Project work** entitled “**ANTIOXIDANT, ANTI-TUMOUR, ANTIPROLIFERATIVE, ANTIINFLAMMATORY, ANTIAGING, HEPATOPROTECTIVE AND NEPHROPROTECTIVE EFFECTS OF *Pleurotus eous* (Berk.) Sacc., A POTENTIAL MEDICINAL MUSHROOM**” submitted to Bharathiar university in partial fulfilment of the requirements for the award of the degree of **DOCTORATE OF PHILOSOPHY in Biochemistry**.
2. **Project work** entitled “**STUDIES ON THE PURIFICATION AND PARTIAL CHARACTERIZATION OF A SMALL PEPTIDE FROM THE FLOWERS OF *Tabernaemontana divartica* USING CHROMATOGRAPHIC TECHNIQUES**” submitted to Bharathiar University in partial fulfilment of the requirements for the award of the degree of **MASTER OF PHILOSOPHY in Biochemistry**.
3. **Project work** entitled “**STUDIES ON PURIFICATION OF CU (II) NINHYDRIN POSITIVE COMPOUNDS FROM FLOWERS OF *vinca rosea* AND FLOWERS OF SOME MEDICINAL PLANTS**” submitted to Bharathiar university in partial fulfilment of the requirements for the award of the degree of **MASTER OF SCIENCE in Biochemistry**.

PhD Completed

1. A.Kalaivani - Anti obese potential of *Cucurbita maxima* seed oil: Effect on Lipid profile, lipid metabolic enzymes and its regulatory mRNA expressions in High Fat Diet induced Obese Rats 2019.
2. Mrs.A.Jansy Isabella Rani- Ameliorative Potential of Biochanin-A Against High Fat Diet Induced Obesity In Rats. 2022
3. Mrs.G.Sangeethadevi - Prophylatic effect of Bbiochanin-A against isoproterenol-induced myocardial infarction in rats. 2022
4. P.Tamilmani - Effect of linalool against HFD induced nonalcoholic fatty liver disease in rats”

Awards

- Rotary club of Erode North has awarded privilege award for proficiency in **Overall (II)** subject in Biochemistry.
- Secured **Fifth Rank** at the Bharathiar University level in B.Sc. Biochemistry.
- Act as a mentor for MPhil candidate K.Pavithra (2011-2012) to receive Sir C.V.Raman Award 2012 and Cash prize Rs.3000 from **Dr.A.P.J.Abdul kalam** at Periyar University, Salem.
- **Received Best Tutor award from KSRCAS on September 2024**
- **Received Best Teacher award from KSRCAS on September 2024**
- **Received Best Research award from KSRCAS on September 2024**

Publications

1. Hydroxycitric acid and capsaicin combination alleviates obesity-induced testicular apoptosis, oxidative stress and inflammation Uddandrao V.V.S.;Eraniappan S.;Balakrishnan Ramajayam A.;Singaravel S.;Roy A.;Parim B.N.;Ponnusamy C.;Ganapathy S.;Ponnusamy P.;Sasikumar V. *Systems Biology in Reproductive Medicine*, **Volume 70, Year 2024, Pages 20-37**.DOI:10.1080/19396368.2024.2306403
2. Partially Purified Polysaccharides from *Lentinus edodes* (Mushroom) Scavenge Free Radicals and Induce Apoptosis in MCF-7 Cancer Cells by Regulating Apoptotic Genes Ponnusamy C.;Uddandrao V.V.S.;Sasikumar V.;Prabhu P.;Ganapathy S. *rticle Indian Journal of Pharmaceutical Education and Research*, **Volume 58, Year 2024, Pages 535-545** DOI:10.5530/ijper.58.2.60
3. Facile engineering of aptamer-coupled silk fibroin encapsulated myogenic gold nanocomposites: investigation of antiproliferative activity and apoptosis induction. Poorni Kaliyappan Elayappan 1, Kavitha Kandasamy 1, Vadivukkarasi Sasikumar 2, Muruganantham Bharathi 3, Abdurahman Hajinur Hiraad 4, Abdullah A Alarfaj 4, Palanisamy Arulselvan 5, Ravindran Jaganathan 6, Rajeswari Ravindran 6, Jagadeesh Suriyaprakash 7, Indumathi Thangavelu. *Biotechnol Letters*. 2024 Oct;46(5):871-885. doi: 10.1007/s10529-024-03491-2. Epub 2024 Apr 27.
4. Effect of S-allylcysteine against diabetic nephropathy via inhibition of MEK1/2-ERK1/2-RSK2 signalling pathway in streptozotocin-nicotinamide-induced diabetic rats. Uddandrao V.V.S.;Parim B.;Ramavat R.;Pothani S.;Vadivukkarasi S.;P P.;P C.;Ganapathy S. *Archives of Physiology and Biochemistry*, **Volume 129, Year 2023, Pages 213-221**. DOI:10.1080/13813455.2020.1811731
5. Biochanin A attenuates obesity cardiomyopathy in rats by inhibiting oxidative stress and inflammation through the Nrf-2 pathway Jansy Isabella Rani A ., V. V. Sathibabu Uddandrao .,

Sangeethadevi G ., Saravanan G ., Chandrasekaran P ., Sengottuvelu S ., Tamilmani P ., Sethumathi P P ., S. Vadivukkarasi ., Archives of Physiology and Biochemistry, Volume , Year 2021, Pages 1-16 6.

6. Linalool Mitigated High-Fat Diet–Induced Non-alcoholic Fatty Liver Disease by Regulating the Intestinal-Hepatic Axis via TGF- β /NF-kB/TLR4/ZO-1 Pathway. Periyasamy, T., Sathibabu Uddandrao, V.V., Ponnusamy, C. S. Vadivukkarasi, et al. Rev. Bras. Farmacogn. (2023). <https://doi.org/10.1007/s43450-023-00395-6>
7. Protective effect of aqueous extract of Pleurotus eous against Dalton’s lymphoma ascites tumor in mice Vadivukkarasi Sasikumar, Sudha Govindan,, Gayathri Rajendran, Archana Rajendran, Prasanna Ramani, Mirian Pateiro f, Jos’e M. Lorenzo. Journal of Agriculture and Food Research 13 (2023) 100638
8. Phytoformulation with hydroxycitric acid and capsaicin protects against high-fat-diet-induced obesity cardiomyopathy by reducing cardiac lipid deposition and ameliorating inflammation and apoptosis in the heart Uddandrao V.V.S.;Chandrasekaran P.;Saravanan G.;Brahmanaidu P.;Sengottuvelu S.;Ponmurugan P.;Vadivukkarasi S.;Kumar U. Journal of Traditional and Complementary Medicine, **Year** 2023. DOI:10.1016/j.jtcm.2023.08.004
9. Biochanin-A attenuates high-fat diet and streptozotocin-induced hyperlipidemia and oxidative stress in rats by improving antioxidant status and lipid metabolic markers Sethumathi P.;Uddandrao V.V.;Chandrasekaran P.;Sengottuvelu S.;Tamilmani P.;Ponmurugan P.;Vadivukkarasi S.;Santhanakumar M.;Begum M.;Saravanan G. Asian Pacific Journal of Tropical Biomedicine, **Volume** 13, **Year** 2023, **Pages** 460-468 DOI:10.4103/2221-1691.389571
10. Biochanin-A Protects Rats from Diabetes-associated Cardiorenal Damage by Attenuating Oxidative Stress through Activation of Nrf-2/HO-1 Pathway. P. P. Sethumathi¹ , V. V. Sathibabu Uddandrao¹ , P. Chandrasekaran¹ , S. Sengottuvelu² , P. Tamilmani^{3,1} , P. Ponmurugan⁴ , S. Vadivukkarasi¹ , M. Santhanakumar⁵ , M. Shabana Begum⁶ and G. Saravanan^{1*} Biosciences Biotechnology Research Asia, Year 2023. DOI:10.13005/bbra/3105
11. Linalool attenuates lipid accumulation and oxidative stress in metabolic dysfunction-associated steatotic liver disease via Sirt1/Akt/PPRA- α /AMPK and Nrf-2/HO-1 signaling pathways Tamilmani P.;Sathibabu Uddandrao V.V.;Chandrasekaran P.;Saravanan G.;Brahma Naidu P.;Sengottuvelu S.;Vadivukkarasi S. Clinics and Research in Hepatology and Gastroenterology, **Volume** 47, **Year** 2023 DOI:10.1016/j.clinre.2023.102231

12. Polyherbal Formulation Ameliorates Diabetic Cardiomyopathy Through Attenuation of Cardiac Inflammation and Oxidative Stress Via NF- κ B/Nrf-2/HO-1 Pathway in Diabetic Rats Uddand Rao V.V.S.;Parim B.;Singaravel S.;Ponnusamy P.;Ponnusamy C.;Sasikumar V.;Saravanan G. Journal of Cardiovascular Pharmacology, **Volume** 79, **Year** 2022, **Pages** 75-86 DOI:10.1097/FJC.0000000000001167
13. Attenuation of lipid metabolic abnormalities, proinflammatory cytokines, and matrix metalloproteinase expression by biochanin-A in isoproterenol-induced myocardial infarction in rats Sangeethadevi G.;Sathibabu S.U.;Jansy Isabella R.A.R.;Saravanan G.;Ponmurugan P.;Chandrasekaran P.;Sengottuvelu S.;Vadivukkarasi S. Drug and Chemical Toxicology, **Volume** 45, **Year** 2022, **Pages** 1951-1962 DOI:10.1080/01480545.2021.1894707
14. Lentinula Edodes (Edible Mushroom) as a Nutraceutical: A Review Biosciences. Chandrasekaran Ponnusamy, V. V. Sathibabu Uddand Rao, Sethumathi Ponnusamy Pudhupalayam, Sengottuvelu Singaravel, Tamilmani Periyasamy, Ponnusamy Ponmurugan, Puniethaa Prabhu, Vadivukkarasi Sasikumar, Ganapathy Saravanan Biotechnology Research Asia, Year 2022, March 2022.
15. Ameliorative Potential of Biochanin-A against Dexamethasone Induced Hypertension through Modulation of Relative mRNA and Protein Expressions in Experimental Rats. V. V. Sathibabu Uddand Rao, P. P. Sethumathi, Parim Brahma Naidu, S. Vadivukkarasi, Mustapha Sabana Begum and G. Saravanan. Advancements in Cardiovascular Research and Therapeutics: Molecular and Nutraceutical Perspectives, **Volume** 1, **Year** 2022, **Pages** 156-170. DOI:10.2174/9789815050837122010011
16. Biochanin A Attenuates Hyperglycemia in High-Fat Diet–Streptozotocin–Induced Diabetic Rats by Modulating the Activities of Carbohydrate-Metabolizing Enzymes in Vital Organs. Sethumathi Ponnusamy Pudhupalayam & V. V. Sathibabu Uddand Rao & Chandrasekaran Ponnusamy & Sengottuvelu Singaravel & Tamilmani Periyasamy & Ponmurugan Ponnusamy & Vadivukkarasi Sasikumar & Mustapha Shabana Begum & Saravanan Ganapathy. 2022 Revista Brasileira de Farmacognosia. <https://doi.org/10.1007/s43450-022-00280-8>.
17. Attenuation of lipid metabolic abnormalities, proinflammatory cytokines, and matrix metalloproteinase expression by biochanin-A in isoproterenol induced myocardial infarction in rats Sangeethadevi G.;Sathibabu S.U.;Jansy Isabella R.A.R.;Saravanan G.;Ponmurugan P.;Chandrasekaran P.;Sengottuvelu S.;Vadivukkarasi S. Drug and Chemical Toxicology, **Volume** 45, **Year** 2021, **Pages** 1951-1962 5.

18. Phenolic-Fractions of *Kedrostis foetidissima* Leaves to Ameliorate Lysosomal Damage and Inflammation of Isoproterenol-Induced Myocardial Infarction in Rats. Pavithra, V. V. Sathibabu Uddandrao, P. Chandrasekaran, S. Sengottuvelu², P. Tamilmani, P. P. Sethumathi, S. Vadivukkarasi and G. Saravanan. *Bioscience Biotechnology Research Communications*, **Volume 14**, **Year 2021**. DOI:<http://dx.doi.org/10.21786/bbrc/14.2.31>
19. Attenuation of lipid metabolic abnormalities, proinflammatory cytokines, and matrix metalloproteinase expression by biochanin-A in isoproterenol-induced myocardial infarction in rats. March 2021. *Drug and Chemical Toxicology* 45(3):1-12. DOI:10.1080/01480545.2021.1894707. Authors: Govindasami Sangeethadevi, V. V. Sathibabu Uddandrao, Rani Antony Rathinasamy Jansy Isabella, Ganapathy Saravanan, Ponnusamy Ponmurugan, Ponnusamy Chandrasekaran, Singaravel Sengottuvelu, Sasikumar Vadivukkarasi
20. Mitigating Perspectives of Asiatic Acid in the Renal Derangements of Streptozotocin-Nicotinamide Induced Diabetic Rats Kalidhindi S.;Uddandrao V.V.S.;Sasikumar V.;Raveendran N.;Ganapathy S. *Cardiovascular & Hematological Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry) Cardiovascular & Hematological Agents*, Volume 18, Year 2020, Pages 37-44
21. Attenuation of obesity-associated oxidative stress by cucurbita maxima seed oil in high fat diet-induced obese rats Kalaivani, Vadivukkarasi, V. V. Sathibabu Uddandrao and G. Saravanan *Pathophysiology of Obesity-Induced Health Complications*, Volume 19, Year 2020, Pages 305–316.
22. Therapeutic potential of biochanin-A against isoproterenol-induced myocardial infarction in rats Govindasami S.;Uddandrao V.V.S.;Raveendran N.;Sasikumar V. *Cardiovascular & Hematological Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry) Cardiovascular & Hematological Agents*, Volume 18, Year 2020, Pages 31-36
23. Antiobesity effect of biochanin-A: effect on trace element metabolism in high fat diet-induced obesity in rats Rathinasamy J.I.R.A.;Uddandrao V.V.S.;Raveendran N.;Sasikumar V. *Cardiovascular & Hematological Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry (Cardiovascular & Hematological Agents))*, Volume 18, Year 2020, Pages 21-30
24. Identification of bioactive factors from *Abrus precatorius* by GC-MS, NMR and evaluation of its antioxidant activity. K.Pavithra¹V.V. Sathibabu Uddandrao¹ S.Mathavan N.Gobeeswaran S.Vadivukkarasi Saravanan Ganapathy. *Materials Today: Proceedings*, Year 2020. Volume 26, Part 4, 2020, Pages 3518-3521. <https://doi.org/10.1016/j.matpr.2019.05.417>
25. Effect of S-allylcysteine against diabetic nephropathy via inhibition of MEK1/2-ERK1/2-RSK2 signalling pathway in streptozotocin-nicotinamideinduced diabetic rats Uddandrao V.V.S.;Parim B.;Ramavat R.;Pothani S.;Vadivukkarasi S.;Ponmurugan P.;Chandrasekaran P.;Ganapathy S. *Archives of Physiology and Biochemistry*, Year 2020
26. Phenolic fraction extracted from *Kedrostis foetidissima* leaves ameliorated isoproterenol-induced cardiotoxicity in rats through restoration of cardiac antioxidant status Pavithra K.;Sathibabu Uddandrao V.V.;Chandrasekaran P.;Brahmanaidu P.;Sengottuvelu S.;Vadivukkarasi S.;Saravanan G. *Journal of Food Biochemistry*, Volume 44, Year 2020

27. Asiatic Acid Attenuate Type 2 Diabetes Mellitus Induced Alterations in Acetylcholinesterase and Antioxidant System of Brain in Rats Swapna, V. V. Sathibabu Uddandrao, G. Saravanan Bioscience Biotechnology Research Communications, Volume 13, Year 2020.
28. Antiobesity efficacy of asiatic acid: down-regulation of adipogenic and inflammatory processes in high fat diet induced obese rats Uddandrao V.V.S.;Rameshreddy P.;Brahmanaidu P.;Ponnusamy P.;Balakrishnan S.;Ramavat R.N.;Swapna K.;Pothani S.;Nemani H.;Meriga B.;Vadivukkarasi S.;P. R N.;Ganapathy S. Archives of physiology and biochemistry, Volume 126, Year 2020, Pages 453-462.
29. Characterization of partially purified alkaloids from Cucurbita maxima seed and evaluation of their antioxidant activity in human erythrocytes and leukocytes Vasudhevan P.;Manikandan M.;Thangavel P.;Vadivukkarasi S. Journal of food biochemistry, Volume 44, Year 2020.
30. Restorative potentiality of S-allylcysteine against diabetic nephropathy through attenuation of oxidative stress and inflammation in streptozotocin-nicotinamide-induced diabetic rats. Sathibabu Uddandrao, V. V., Brahmanaidu, P., Ravindarnaik, R., Suresh, P., **Vadivukkarasi, S.**, & Saravanan, G. (2019). European journal of nutrition, 58(6), 2425–2437. <https://doi.org/10.1007/s00394-018-1795-x> [**Impact Factor: 4.865**]
31. Evaluation of Anti-obesity activity of Biochanin A against high-fat diet (HFD)-induced obesity in rats. Jansy Isabella Rani A, P. R. Nivedha, V. V. Sathibabu Uddandrao, Ganapathy Saravanan and S. Vadivukkarasi*. ISBN: 978-98-5346-732-6, K.S. Rangasamy College of Arts and Science (Autonomous), 2019.
32. Evaluation of Cardioprotective activity of Biochanin-A against isoproterenol-induced myocardial infarction in rats. Sangeethadevi G, P. R. Nivedha, V. V. Sathibabu Uddandrao, Ganapathy Saravanan and S. Vadivukkarasi* ISBN: 978-98-5346-732-6, K.S. Rangasamy College of Arts and Science (Autonomous), 2019.
33. Effects of asiatic acid, an active constituent in *Centella asiatica* (L.): restorative perspectives of streptozotocin-nicotinamide induced changes on lipid profile and lipid metabolic enzymes in diabetic rats Swapna K.;Sathibabu Uddandrao V.V.;Parim B.;Ravindarnaik R.;Suresh P.;Ponnusamy P.;Balakrishnan S.;Vadivukkarasi S.;Harishankar N.;Reddy K.P.;Nivedha P.R.;Saravanan G. Comparative Clinical Pathology, Volume 28, Year 2019, Pages 1321-1329.
34. Anticancer activity of pomegranate extract: effect on hematological and antioxidant profile against ehrlich-ascites-carcinoma in Swiss albino mice Uddandrao V.V.S.;Parim B.;Nivedha P.R.;Swapna K.;Rameshreddy P.;Vadivukkarasi S.;Begum M.S.;Ganapathy S. Oriental pharmacy and experimental medicine, Volume 19, Year 2019, Pages 243-250
35. Identification of bioactive factors from Abrus precatorius by GC-MS, NMR and evaluation of its antioxidant activity Pavithra K.;Uddandrao V.V.S.;Mathavan S.;Gobeeswaran N.;Vadivukkarasi S.;Ganapathy S. Materials Today: Proceedings, Volume 26, Year 2019, Pages 3518-3521.
36. Asthma-alleviating potential of 6-gingerol: effect on cytokines, related mRNA and c-Myc, and NFAT1 expression in ovalbumin-sensitized asthma in rats Zaoni L.;Zhongxi L.;Sathibabu Uddandrao V.V.;Ponnusamy P.;Balakrishnan S.;Brahmanaidu P.;Vadivukkarasi S.;Saravanan G. Journal of Environmental Pathology, Toxicology and Oncology, Volume 38, Year 2019, Pages 41-50.

37. Restorative potentiality of S-allylcysteine against diabetic nephropathy through attenuation of oxidative stress and inflammation in streptozotocin–nicotinamide-induced diabetic rats Sathibabu Uddandrao V.V.;Brahmanaidu P.;Ravindarnaik R.;Suresh P.;Vadivukkarasi S.;Saravanan G. *European Journal of Nutrition*, Volume 58, Year 2019, Pages 2425-2437.
38. Reversal of high fat diet-induced obesity through modulating lipid metabolic enzymes and inflammatory markers expressions in rats Kalaivani A.;Uddandrao V.V.S.;Parim B.;Ganapathy S.;Nivedha P.R.;Kancharla S.C.;Rameshreddy P.;Swapna K.;Sasikumar V. *Arch Physiol Biochem*, Volume 125, Year 2018, Pages 228-234.
39. An endeavor to formulate carrot juice incorporated buffalo milk paneer as better nutritional source; organoleptic and nutritional evaluation. G.;Nivedha Sathibabu Uddandrao V.;Brahmanaidu P.;Saravanan and Vadivukkarsi Sasikumar. *Indian J Dairy Sci*, Year 2018.
40. Supplementation of Carrot Incorporated Paneer Attenuates Diabetes through its Antioxidant Potential in Streptozotocin-Nicotinamide-Induced Diabetic Rats INNOSC P. R. Nivedha,V. V. Sathibabu Uddandrao, Ganapathy Saravanan, Parim Brahmanaidu and S. Vadivukkarasi *Theranostics and Pharmacological Sciences*, Year 2018.
41. Anti obese potential of Cucurbita maxima seeds oil: effect on lipid profile and histoarchitecture in high fat diet induced obese rats Kalaivani A.;Sathibabu Uddandrao V.;Brahmanaidu P.;Saravanan G.;Nivedha P.;Tamilmani P.;Swapna K.;Vadivukkarasi S. *Natural product research*, Volume 32, Year 2018, Pages 2950-2953.
42. Bio-modification of cotton and micro-denier polyester with sericin to develop potent antibacterial and antifungal textile products Rajalakshmi M.;Uddandrao V.;Saravanan G.; Vadivukkarasi S.; Koushik C. *Journal of The Institution of Engineers (India): Series E*, Volume 99, Year 2018, Pages 119-127.
43. Beneficial role of some natural products to attenuate the diabetic cardiomyopathy through Nrf2 pathway in cell culture and animal models Sathibabu Uddandrao V.;Brahmanaidu P.;Nivedha P.;Vadivukkarasi S.;Saravanan G. *Cardiovascular toxicology*, Volume 18, Year 2018, Pages 199-205.
44. Obesity-alleviating potential of asiatic acid and its effects on ACC1, UCP2, and CPT1 mRNA expression in high fat diet-induced obese Sprague–Dawley rats Rameshreddy P.;Uddandrao V.;Brahmanaidu P.;Vadivukkarasi S.;Ravindarnaik R.;Suresh P.;Swapna K.;Kalaivani A.;Parvathi P.;Tamilmani P.;Saravanan G. *Molecular and Cellular Biochemistry*, Volume 442, Year 2018, Pages 143-154.
45. Reversal of endothelial dysfunction in aorta of streptozotocin nicotinamide-induced type-2 diabetic rats by S-Allylcysteine Brahmanaidu P.;Uddandrao V.V.S.;Sasikumar V.;Naik R.R.;Pothani S.;Begum M.S.;Rajeshkumar M.P.;Varatharaju C.;Meriga B.;Rameshreddy P.;Kalaivani A.;Saravanan G. *Molecular and Cellular Biochemistry*, Volume 432, Year 2017, Pages 25-32.
46. Therapeutic potentiality of Kedrostis foetidissima (Jacq.) Cogn., leaf extracts on free radicals induced oxidative damage in the biological system. Pavithra Kalaisezhiyen, V. V. Sathibabu Uddandrao, Ganapathy Saravanan, **Vadivukkarasi Sasikumar**. *Oxidants and Antioxidants in Medical Science*, Year 2017.

47. Appraisal Of Sensory And Proximate Composition Of Carrot Juice Incorporated Cow Milk Paneer P. Nivedha Raveendran , V. V. Sathibabu Uddandrao, Ganapathy Saravanan, and Vadivukkarasi Sasikumar * Novel technologies on natural products for mosquito and disease control, Volume , Year 2017, Pages 37.
48. Protective effect of alkaloids from *Amaranthus viridis* linn. against hydrogen peroxide induced oxidative damage in human erythrocytes (RBC). Vadivukkarasi Sasikumar*, Arunambiga Subramaniam, Anila Aneesh and Ganapathy Saravanan. International Journal of Clinical Endocrinology and Metabolism, Year 2015
49. Novel application of Cucurbita maxima peel protease in detergents. Vadivukkarasi S, Manikandan M Pavithra K and Vasudevan M. Journal of Proteomics Enzymology, Year 2015 .
50. Evaluation of free radical scavenging activity of various extracts of leaves from *Kedrostis foetidissima* (Jacq.) Cogn. Pavithra K and Vadivukkarsi S. Food science and human wellness, Year 2015 40.
51. Antioxidants Activities of *Pleurotus eous* (Berk.) Sacc.: (APK1) Mushroom. Sudha G. Vadivukkarasi S 2015. Food Sci Indian Journal of Research in Food Science and Nutrition 2 (1):29. DOI:10.15613/fjrfn/2015/v2i1/80076.
52. Cardioprotective activity of *Amaranthus viridis* Linn: effect on serum marker enzymes, cardiac troponin and antioxidant system in experimental myocardial infarcted rats Saravanan G.;Ponmurugan P.;Sathiyavathi M.;Vadivukkarasi S.;Sengottuvelu S. International journal of cardiology, Volume 165, Year 2013, Pages 494-498
53. GC- MS evaluation of chemical constituents from methanolic leaf extract of *Kedrostis foetidissima* (Jacq.) Cogn Kalaisezhiyen P.;Sasikumar V. Asian Journal of Pharmaceutical and Clinical Research, Volume 5, Year 2012, Pages 77-81
54. Antioxidant activity of ripe and unripe pepino fruit (*Solanum muricatum* Aiton) Sudha G.;Sangeetha Priya M.;Indhu Shree R.B.;Vadivukkarasi S. Journal of food science, Volume 77, Year 2012 48.
55. Antioxidant activity of various extracts from an edible mushroom *Pleurotus eous* Sudha G.;Vadivukkarasi S.;Shree R.B.I.;Lakshmanan P. Food Science and Biotechnology, Volume 21, Year 2012, Pages 661-668 49.
56. Antioxidant activity and nephroprotective effects of aqueous extract of *pleurotus eous* (Berk.) SACC.: (APK1) pink edible oyster mushroom Sasikumar V.;Menon S.G. International Journal of Pharma and Bio Sciences, Volume 2, Year 2011, Pages 92-103 50.
57. *In vitro* free radical scavenging activity of raw pepino fruit G.SUDHA*, M.Sangeetha Priya, R.Indhu Shree, S.Vadivukkarasi International Journal of Current Pharmaceutical Research, Volume , Year 2011, Pages 53.
58. Antioxidant activity of ripe pepino fruit (*solanum muricatum* aiton) Sudha G.;Sangeetha Priya M.;Indhu Shree R.;Vadivukkarasi S. International Journal of Pharmacy and Pharmaceutical Sciences, Volume 3, Year 2011, Pages 257-261 54.

Research funding

1. Therapeutical potentiality of Benincasa hispida seed extracts against the intestinal helminthes of ducts as a model of human stomach worms. **Ref No:** TNSCST/ SPS/AR/2016-2017; Dated : 10.04.2017, BS-39. **Funding Agency-** TNSCST, **Amount Rs.10000.**
2. Organizer in National conference entitled “Translating the Science of Nutrition into Art of Healthy living” (January 30 and 31, 2019), **Ref No:** SYM/9908/18-HRD; Dated: 04.12.2018, **Funding Agency-** CSIR, **Amount Rs.30000.**

Reviewer for journals

1. Journal of acupuncture and meridian science
2. Pharmaceutical Biology
3. Journal of food
4. Food science and Technology International
5. Food science and human wellness
6. Natural product Research
7. European Journal of lipid Science and Technology
8. Biological trace Elements
9. Journal of Food Biochemistry
10. Materials today Proceedings
11. Neurochemistry international
12. Bentham science Publishers
13. Journal of Agriculture and Ecology Research International
14. Complementary Medicine and Therapies
15. Food Science & Nutrition

Research Guidance

Mhil Scholars Completed- 9

PhD Scholar Completed -4

Book Published

Book Title	ISBN No	Publisher
Translating the science of Nutrition into healthy living G.Saravanan & S.Vadivukkarasi	978-93-5346-732-6	Department of Biological Sciences, K.S.Rangasamy college of Arts and Science (Autonomous) KSR Kalvi Nagar, Tiruchengode, Namakkal DT, Tamilnadu, India

Chaired person / Organizing Committee member

1. Coordinator to organize online special lecture series for 5 days from 6.9.2024-12.9.2024
2. Chaired a session in National Conference on Recent Advancements in Biomedical Techniques: Impact on Clinical Diagnosis. 1st March 2018. K.S. Rangasamy College of Arts and Science (Autonomous) Tiruchengode.
3. Chaired a session in ICMR sponsored National Conference on: Novel technologies on Natural products for Mosquito and Disease Control. 23 and 24 February 2017. K.S. Rangasamy College of Arts and Science (Autonomous) Tiruchengode.
4. Organizing committee member in DBT sponsored National workshop on Entering the life science research arena through big Data held on 23-24, August 2016, K.S. Rangasamy College of Arts and Science (Autonomous) Tiruchengode.
4. Organizing committee member in DBT sponsored National conference on The Human microbiome in Health and Disease held on 27-28, November 2014, K.S. Rangasamy College of Arts and Science (Autonomous) Tiruchengode.
5. Organizing committee member in Womens Day celebration held on 08, March 2017, K.S. Rangasamy College of Arts and Science (Autonomous) Tiruchengode.

Papers Presented

1. Presentation of guiding to promote facilitative education and key strategies to enhance active learning in NAAC sponsored National Conference on Prospectives of Outcome based Education (OBE) and NAAC accreditation. Jan 23 & 24. 2023 K.S. Rangasamy College of Arts and Science (Autonomous) Tiruchengode.

2. Presentation of “Carrot incorporated paneer and ameliorated hyperglycemia in STZ nicotinamide induced diabetic rats” in National Conference on Recent Advancements in Biomedical Techniques: Impact on Clinical Diagnosis. 1st March 2018. K.S. Rangasamy College of Arts and Science (Autonomous) Tiruchengode.
3. Presentation of “Therapeutical potential of *Cucurbita maxima* seed oil against High fat diet-Streptozotocin induced diabetes in rats” on ICECM at November 10 (2017) at Mahatma Gandhi University, Kottaiyam.
4. Presentation of “Anticancer activity of *Benincasa hispida* seeds on cervical carcinoma Hela cell lines on ICMR sponsored National Conference on “Novel Technologies on Natural Products for Mosquito and Disease Control” organized by Department of Biological Sciences, K.S.Rangasamy college of Arts and science on 23rd & 24th February 2017.
5. Presentation of Antiobesity in 104th Indian Science congress held at S.V.University, Tirupati on 3 - 7 January 2017.
6. Presentation of “Novel applications of *cucurbita maxima* peel protease in detergents” in International symposium on The Bioscience Research for present and future, at December 14 (2015) at Vivekananda College of arts and Science, Tiruchengode.
7. Presentation of “Potential application of protease isolated from *Cucurubita maxima* peel” in National conference on Recent advances in Biological sciences towards sustainable development, at January 9 and 10 (2015) at Muthyammal College of arts and Science, Rasipuram.
8. Presentation of “Isolation of alkaloid from leaves of *Amaranthus viridis* and its protective effects” in The human Microbiome in health and disease, at November 27 and 28 (2014) at K.S. Rangasamy College of arts and Science, Tiruchengode.
9. Presentation of “Protective effect of alkaloids from *Amaranthus viridis* L., against H₂O₂ induced oxidative damage in human erythrocytes and leucocytes” in DST,DBT,DRDO,TNSCST sponsored National Conference on Phytomedicine October 4 & 5 2012, Department of Botany, Bharathiar University.
10. Presented a paper at Periyar University, Salem 13 & 14 Feb 2012 with topic entitled “Bioactivity of essential oils against bacteria from clinical samples” in UGC sponsored National seminar on Current status and future prospects of plant therapeutics and phytomedicine.

11. Presentation of “Antioxidant activity and nephroprotective effects of aqueous extract of *Pleurotus eous* (Berk.) Sacc.: (APK1) pink edible oyster mushroom” in DST sponsored International conference on food and nutraceuticals for nutrition and health: Technology and delivery (ICFAN) on 20 & 22 January, 2011, at Department of food science, Periyar University, Salem
12. Presentation of “Antioxidant and antitumour activity of PEAE against ascites tumour induced swiss albino mice” in National level biological congress on DST & CSIR sponsored “Promising faces of Biotechnology” on 7 & 8 January, 2011, at Muthyammal college of Arts and Science, Rasipuram.
13. Presentation of “Antioxidant activity of acetone and Chloroform Extracts of *Pleurotus eous*” in DBT, DRDO, CSIR, DST sponsored National conference on Herbal Medicine” on September 8 & 9, 2010 at Department of Botany, School of Life Sciences, Bharathiar University, Coimbatore.
14. Presentation of “Bioactive compound and antioxidant potential of *Lentinus edodes* from South India” in CSIR & DRDO sponsored National seminar on “Recent trends in the conservation and utilization of under utilized wild edible plants (CUWEP-2009)” on March 20th and 21st, 2009 at Department of Botany, School of Life Sciences, Bharathiar University, Coimbatore.
15. Presentation of “Bioactive compounds and antioxidant potential of various solvent extracts of *pleurotus eous*” in UGC Sponsored National conference on “Advances in plant pathology for sustainable agriculture” on November 24th and 25th, 2008 at Tamilnadu Agricultural University, Coimbatore.
16. Presentation of “Medicinal mushrooms” on 3rd November 2008 in Research Forum of Kongunadu Arts and Science College, Coimbatore.
17. Presentation of “Antioxidants and free radical scavenging capacity of ethanolic and aqueous extracts of *Melia Dubia*” in National Conference on Medicinal and Aromatic Plants for public Health (MAPPH-08) on September 1^{8th} and 1^{9th}, 2008, Karunya university, Coimbatore.
18. Presentation of “Studies on antioxidant activities of Broccoli, *Brassica oleracea* var. Italica” in Indian Science Congress Association sponsored National Seminar on Biodiversity- Status, Conservation and Management on September 12th and 13th, 2008, Kongunadu Arts and Science college, Coimbatore.

19. Presentation of “Phytochemicals and antioxidant potential of ethanolic and aqueous extracts from *pleurotus eous*” in UGC sponsored National Symposium on “Sustainable Utilization and Conservation of Medicinal Plants” on 21st and 22nd August 2008, Nirmala college for women, Coimbatore.
20. Presentation of “Screening of CU (II) Ninhydrin positive compounds from flowers of some medicinal plants” in International conference on Recent Advances in Biosciences held at Institute of biological sciences, on 12 &13 February 2004, at PGP College of Arts and Science, Namakkal.

Seminars and workshop attended

1. Participation in seven days FDP on Journey to research excellence from concepts to publication conducted at Hindustan College of Arts and Science, Coimbatore from 19.8.2024- 24.8.2024.
2. Participation in “An Overview on online International FDP” on 19 & 20 Dec, 2022 at Sri Sarada College for Women, Salem.
3. Participation in “Animal welfare and alternatives to Experimentation in Biomedical Research” during world Laboratory Animal Day on 24 April, 2016 at National Institute of Nutrition, Hyderabad.
4. National Seminar on Modelling the Neural structure of Human Brain using Machine Learning, on 17 &18 February 2016. KSRCAS, Tiruchengode
5. One Day Training Programme on URKUND: Plagiarism Detection software for Research Supervisors of University, 09, August 2016. Periyar University, Salem.
6. National Seminar on Herbal Focus at Srimad Andavan Arts and Science College, Trichy on 19 February 2011.
7. State level workshop on “Therapeutic uses & cultivation of medicinal plants” at K.S. Rangasamy college of Arts and Science, Tiruchengode, held on 2^{6th} - 2^{7th} march 2010.
8. Workshop on “National Workshop on Biostatistical tools for Researchers” at Kongunadu Arts and Science College, Coimbatore held on 10th - 12th January 2007.
9. National level symposium on “Motif’05 “held on October 6th 2005 conducted at Bharathiar university, Coimbatore.
10. National level symposium on “Motif’04 “held on October 5th 2004 conducted at Bharathiar university, Coimbatore.
11. National Seminar on “Science in Health Promotion” – Recent Concepts conducted at Vellalar College for Women – Erode on 9th January 2004.

12. UGC sponsored state level seminar on “Biomolecular Behaviour and computing” conducted at PSG College of Arts and Science, Coimbatore on 6th and 7th January 2003.
13. National Seminar on “e-journals & referencing” conducted at Dr. G.R. Damodaran College of Science, Coimbatore on 6th July 2002.
14. National Symposium on Bioinformatics conducted at Avinashilingam University, Coimbatore on 17th Dec 1999.

Membership

Life member in Indian Science congress Association

Doctoral Committee member (Muthayammal College of Arts and Science),

BOS member at Vellalar College for Women.

BOS member at Periyar university, Salem

Extracurricular activities

Mushroom cultivation and medicinal plants cultivation and maintenance.

Training Undergone

- ◆ Training on “**Human Chromosome Methodologies**” during 20.05.2002 to 01.06.2002 at Dr. Rao’s Genetic Lab & Research Centre, Bangalore.
- ◆ Recently available **vaccination** programme’s on 20.11.2000 to 21.11.2000 at Government Hospital, Tiruchengode.