

Curriculum Vitae

Saravana Babu Chidambaram

MPharm, PhD, FASc(AW), FICS, FST, FIPS

(Pharmacy Council Number: BH-P-24-63579)

Professor, Dept of Pharmacology, JSS College of Pharmacy, &
Director, Centre for Experimental Pharmacology & Toxicology

JSS Academy of Higher Education & Research, Mysuru

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Positions

- ❖ Professor, Department of Pharmacology, JSS College of Pharmacy, Mysuru and Director, Centre for Experimental Pharmacology & Toxicology (CPT), JSS Academy of Higher Education and Research, Mysore, (July, 2021 to till date)
- ❖ Associate Professor, Department of Pharmacology, JSS College of Pharmacy and Director, Centre for Experimental Pharmacology & Toxicology (CPT), JSS Academy of Higher Education and Research, Mysore, (Apr, 2016 to July, 2021)
- ❖ Deputy Director, Centre for Toxicology and Developmental Research (CEFT), Sri Ramachandra University, Chennai, India (April, 2014 – March, 2016)
- ❖ Research Officer (Toxicology), Centre for Toxicology and Developmental Research (CEFT), Sri Ramachandra University, Chennai, India (July, 2008 – March, 2014)

Major Achievements

- ❖ Key player in establishing the preclinical toxicology facility from its inception, development and faced multiple rounds of NGCMA, Govt of India, auditing in the capacity of Deputy Test Facility Manager and was instrumental in achieving "Good Laboratory Practice" certification for Centre for Toxicology and Developmental Research, Sri Ramachandra University, Chennai (2008 - 2016)
- ❖ Designed and established the central animal facility, JSS Academy of Higher Education and Research, Mysuru, as per GLP standards
- ❖ Established Industry - Institute collaborative services in Dept of Pharmacology, JSS College of Pharmacy, Mysuru.
- ❖ Designed and initiated PG diploma course in Regulatory Toxicology, in JSS Academy of Higher Education and Research, Mysuru.
- ❖ Designed and established “Centre for Integrated Drug Discovery and Testing” at JSS College of Pharmacy, Mysuru.

Fellowships

- Fellow of Indian Pharmacological Society, India
- Fellow of Society of Toxicology, India
- Fellow of Indian Chemical Society (F/8169)
- Fellow of Academy of Animal Sciences (AW) – (F-236/2014)

Positions in Professional Societies

- Joint Secretary, Society for Neurochemistry, India (Jan, 2023 to till date)
- Executive member, Society for Neurochemistry, India (Jan, 2014 to Dec, 2022)

Membership in learned societies

National

- Life Member, Laboratory Animal Scientist's Association (Membership No: 953)
- Life Member, Association of Pharmaceutical Teachers of India (KA/LM-1604)
- Member, Society for Ethnopharmacology (SFE-INDIA), India (SFE/21/I-2139)
- Life Member of Indian Association of Biomedical Scientists, India (LM No: 648)
- Life Member of Society for Neurochemistry, India (Reg No: 288)
- Life Member in Association of Toxicology, India (FM048)
- Life Member of Society for Toxicology (Membership No: 1033-L)
- Life Member of Indian Pharmacological Society (LS 807)
- Life Member Indian Chemical Society (F/8169)

International

- Member, International Pharmaceutical Federation (FIP), The Netherlands (36292)
- Member International Society for Neurochemistry (Membership No:13976)
- Member, World Stroke Organisation, Switzerland (Member No: 3290829)

PhD Research Supervision

- Completed : 10
- Undergoing : 05

Postgraduate Research Supervision

- Completed : 16
- Undergoing : 02

Education

Degree	Institution / University	Year
PhD	JSS College of Pharmacy, Ooty.	Aug 2004 – Aug 2008
M Pharm	The Tamil Nadu Dr. M.G.R.	Sep 2001 – Sep 2003
B Pharm	Medical University, Chennai, India	Apr 1996 – Apr 2000

Thesis works

- **PhD:** Assessment of time dependent neuro- and biochemical alterations in transient focal ischemic model: Effect of memantine, nimodipine and benzamide
- **M.Pharmacy:** Formulation, Standardisation and Neuropsychopharmacological screening of few Hypericum species of Nilgiris (India)
- **B. Pharmacy:** Effect of Pre- and Post-natal Exposure of *Bacopa monniera* on offspring cognitive performance

Thrust Area

- Cerebral stroke, Parkinson's disease, sleep disorders, Alzheimer's disease and Huntington's disease
- Gut microbiome, mitochondrial dynamics, autophagy – lysosomal/ER as targets in neuroprotection
- Regulatory Toxicology

Institutional Services

- Research Coordinator, JSS College of Pharmacy, Mysuru (June, 2022 to Jan, 2024)
- Member, Board of Studies, College of Pharmaceutical Science, Dayananda Sagar University, Bangalore (March, 2021 – March 2023)
- Internal Member, Institutional Biosafety Committee (IBSC; Reg No: F.6-17/2004; CPP-I/DU), JSS Academy of Higher Education & Research, Mysuru (14.09.2020 to till date)
- Admission Officer, JSS College of Pharmacy, JSS Academy of Higher Education & Research, Mysuru (01.02.2020 to till date)
- Member Secretary, Training and Placement Cell, JSS Academy of Higher Education & Research, Mysuru (28.08.2019 to 31.01.2020)

- Leader, SIG-BBRC, JSS Academy of Higher Education & Research, Mysuru (March 2019 to till date)
- Coordinator, Training and Placement Cell, JSS College of Pharmacy, Mysore (June, 2018 - till date)
- Member, Geriatrics Special Interest Group, JSS Academy of Higher Education & Research, Mysuru (01.11.2019 to till date)
- Member, 3D printing Special interest Group, JSS College of Pharmacy, Mysore (Sep, 2017 - till date)
- Member, Board of studies in pharmaceutical science, JSS University, Mysore (Jan, 2017 - till date)
- Member, Internal Quality Assurance Committee, JSS College of Pharmacy, Mysore (Aug, 2016 to till date)
- Member Secretary – Institutional Animal Ethics Committee, SRU, Chennai (April, 2014 - March, 2016)
- Chairman and Convenor, Dissection Monitoring Committee, SRU, Chennai (Oct, 2014 - March, 2016)
- External Scientist, Institutional Animal Ethics Committee, National Institute of Siddha, Chennai (May 2012 - April, 2015)
- Basic Scientist, Institutional Ethics Committee, VClinBio Labs, Sri Ramachandra University, Chennai (April, 2015 - March, 2016)

Professional Summary

Extramural Grants - Principal Investigator

1. Role of L-theanine on alcohol administration induced alterations in autophagy, neuroimmune responses and cognitive performance in cerebral hypoperfused rats. “IBRO Collaborative Research Grant – **JSS AHER, India and NIH, USA** (**On-going**)
2. Safety and therapeutic validation of a fortified probiotic containing Lactobacillus spp. in the management of osteoporosis. Funded under Early Career Fellowship. **DBT/Wellcome Trust India Alliance (India Alliance)**. – **Role: Mentor. On-going**
3. Breast cancer diagnosis and therapeutics, a novel approach. ***Funded by International Research Partnership Fund, University of Saskatchewan, Canada. On-going***
4. Geriatric chronic cerebral hypoperfusion: Role of short chain fatty acids supplementation on gut-brain axis function, protein misfolding, autophagy and cognition. ***Funded by***

Public Health and Nutrition Division (2020-2023), Dept of Biotechnology, Govt of India. On-going

5. Can Renin - Angiotensin System (RAS) be a reliable target in the treatment of Parkinsonism? – A preclinical investigation with newer generation angiotensin -1 receptor blocker (ARB) and angiotensin converting enzyme inhibitor (ACEI). ***Funded by Scientific and Engineering Research Board (SERB), Department of Science and Technology (DST), Govt of India (2013-2016). Completed***
6. Scientific validation of safety, protective and curative efficacy of a patented folklore medicine “*Savliv*” developed for the management of hepatic disorders - a preclinical study. ***Funded by Drugs and Pharmaceutical Research Programme (DPRP), Department of Science and Technology (DST), Govt. of India (2012-2014). Completed***
7. Regulation of SIRT1 and PARP1 and downstream signalling pathways by inotropic glutamate receptor/transporters and bioenergetics state modulators in rat cerebral focal ischemic model: Reliable targets for therapeutic consideration? – ***Funded by Department of Biotechnology (DBT), Govt of India (2010-2012). Completed***

As Co-investigator

1. Finding Novel Cost-effective Process and Formulation of RISDIPLAM to treat Spinal Muscular Atrophy (SMA). ***Funded by TDT, DST, GoI, 2023-2025. On-going. 70 Lakhs***
2. Synergistic activity of RNA induced silencing complex and Telomerase, a novel target for hepatocellular carcinoma. ***Funded by SERB, DST, GoI 2023-2026. On-going. 40 Lakhs***
3. Synthesis, Characterization and Evaluation of Graphene Nanoribbons as a Carrier for Selective Estrogen Receptor Modulators for the Treatment of Breast Cancer. ***Funded by ICMR, GoI, 2019 – 2022. On-Going***
4. Preclinical evaluation of the therapeutic potential of olfaction for treating dementia. ***Funded by CSRI, DST, Govt of India. On-going***
5. A preliminary investigation on the cytotoxic and antiproliferative effect of Rasakarpoora kuligai. ***Funded by The Tamilnadu Dr.MGR Medical University, Chennai. Completed***
6. Isolation and Characterisation of anti-diabetic and anti-adipogenic lead molecules from medicinal plants and evaluation of mechanistic action using in vitro and db/db mice model. ***Funded by DBT, Govt of India. Completed***

7. Product Development of *Phyllanthus niruri* and *Glycine max* (L.) Merr., formulation for the management of Diabetes and associated complications, its Validation, Standardisation, Preclinical Toxicology and Pharmacological evaluation. ***Funded by DPRP, DST, Govt. of India*** (2012-2015) **Completed**
8. Development, characterization and validation of novel ultra-filtration membranes for haemodialysis in preclinical model. Submitted to Drugs and Pharmaceuticals Research Programme of Technology Development and Transfer Division, ***Funded by DPRP, DST, Govt of India. Completed***
9. Population Study of Urban, Rural and Semi-urban regions for the detection of Endovascular disease and prevalence of risk factors And Holistic Intervention Study. ***Funded by DPRP, DST, Govt. of India*** (2012-2014). **Completed**
10. Biochemical and molecular investigation on the role of Thraatchathi chooranam and Thamaraga kudineer in the experimental models of myocardial infarctions in rats. ***Funded by CCRAS, Govt of India*** (2009-2011). **Completed**
11. Development, standardisation and safety of a polyherbal formulation in the management obesity associated hyperlipidemia. ***Funded by DPRP, DST, Govt of India*** (2008-2011). **Completed**

Technical Expertise

- ❖ **In vitro** – Handling and maintenance of mixed cortical cells, PC12, 3T3-L1, L6-myotubes, etc
- ❖ **In vivo** – Handling of rodents including athymic, SCID, transgenic and knockouts animals and expert in the maintenance of GLP standard animal facility
- ❖ **Psychopharmacological tests** using various mazes such as Morris water maze, radial arm maze, elevated plus maze, Y-maze, hole board, open field test, active and passive avoidance, vertical and horizontal grids, beam walk, stride length etc., Expert in handling anymaze video tracking software
- ❖ **Molecular and histopathological techniques** – SDS-PAGE & Agarose electrophoresis, RT-PCR, Western and immuno-blotting, histopathology, immunohistochemistry, immunofluorescence and protein co-localisation, ELISA.
- ❖ **Surgical techniques** - Middle cerebral artery occlusion, carotid and vertebral artery occlusion in rats to induce global ischemia, renal artery occlusion to induce hypertension, intracerebroventricular injection.

As Regulatory Toxicologist

- ❖ Written and reviewed toxicology and other technical standard operating procedures and formats
- ❖ Planned, organized and executed the toxicology studies following regulatory guidelines such as OECD, Schedule Y and Mutually agreed protocols
- ❖ Monitored acute (oral, dermal, eye irritation, skin sensitisation) 28-day, 90 day repeated oral toxicity and validated neurotoxicology studies
- ❖ Reviewed study plan, raw data and study reports and also provided technical inputs during the various phases and critical phases of the studies
- ❖ Trained new Scientists to handle small animals, dosing, husbandry maintenance, performing studies, writing SOPs, study plan, raw data, study report, and performing statistics

As Research Facility Management / Administrator

- ❖ Responsible for renewal and monitoring CPCSEA registration of the test facility
- ❖ Played pivotal role in designing preclinical test facility as per NIH / GLP and AAALAC standards
- ❖ Designed and established toxicology, genetic toxicology, clinical chemistry, pathology, test item control office, wet and document archive, IT unit with complete set of equipment and instruments
- ❖ Played key role in interviewing and recruiting Quality assurance staff, Toxicologist, Pharmacologist, Veterinary pathologist, Biochemist, Test item controller, Archivist, IT and supportive staff
- ❖ Coordinated and interacted with clients and converted almost all the client visits as commercially success
- ❖ Coordinated with business development and project management group
- ❖ Organized the internal / external audits for maintaining the GLP standard of the facility
- ❖ Organized the internal / external training programs for imparting trainings to staff
- ❖ Coordinated various functional units of the test facility and ensured smooth operation
- ❖ Monitored, Audited and Managed Quality Assurance group
- ❖ Managed big team of technical staff and responsible for day-to-day deliverables

Publications (Original research and review articles)

2024

1. Reddi Sree, Radhakrishna; Kalyan, Manjunath; Anand, Nikhilesh; Mani, Sangeetha; Gorantla, Vasavi; Sakharkar, Meena; Song, Byoung-Joon; **Chidambaram, Saravana**. Newer therapeutic approaches in treating Alzheimer disease: A comprehensive review. Under revision in *Communicated to ACS Omega*
2. Asha P. Johnson, S. L. Jyothi, M. Shahid, M. P. Venkatesh, **Saravana Babu Chidambaram**, Riyaz Ali Osmani, H.V. Gangadharappa, Kannissery Pramod. *Communicated to CARBON*. Graphene oxide nanoribbons conjugated with transferrin enhanced targeted delivery and cytotoxicity of raloxifene against breast cancer
3. Tatineni Spandana; **Saravana Babu Chidambaram**; Veera Venkata Nishanth Goli; M Kalyan; Naveen Kumar K. Assessing Enantiomeric Distinctions in Rosiglitazone: Predictive Insights into Pharmacokinetics and Pharmacodynamics through Glucose Uptake Assay and an Experimental Rat Model Induced by Streptozotocin. *Communicated to Talanta Open*
4. Seithikurippu R. Pandi-Perumal, Sayan Paul⁴, Konda Mani Saravanan, Ganesh Pandian Namasivayam, **Saravana Babu Chidambaram**. Clock-Sleep Communication. *Accepted in Current Molecular Medicine*
5. Abid R. Bhat, Muhammed Bishir, Pablo Torterolo, Seithikurippu R. Pandi-Perumal, **Saravana B. Chidambaram**. Papaverine, a PDE10A inhibitor, alleviates autophagy, synaptic functions and memory in chronic sleep deprived mice. *Communicated to Pharmacological Research*
6. Diwakar Suresh, Bharathwaaj Gunaseelan, Akshatha N. Srinivas, Amith Bharadwaj, James Joseph, Megha, Thomas Varghese, Suchitha Satish, Deepak Suvarna, Prasanna K. Santhekadur, Saravana Babu Chidambaram, Ajay Duseja, Divya P. Kumar. Green Jackfruit Flour Prevents Metabolic Dysfunction-Associated Steatohepatitis and Progression to Hepatocellular Carcinoma via the AMPK and MAPK Signaling Pathways bioRxiv 2024.05.23.595466; doi: <https://doi.org/10.1101/2024.05.23.595466>
7. Free phenolic compounds of browntop millet (*Urochloa ramosa* (L.) T.q. Nguyen) more effectively retarded the growth of cancer cell lines in vitro and inhibited the EAC liquid- and solid tumors in vivo compared to bound phenolic compounds Mahadevaswamy G. Kuruburu; Venugopal R. Bovilla; Rimshia Naaz; Zonunsiami Leihang; Sahana Shivaramakrishna; Pramod Kumar; Harish Prashanth K.V; Tousif

Ahmed Hediya; Guru Kumar Dugganaboyana; **Saravana Babu Chidambaram**; Danielle Twilley; Namrita Lall; SubbaRao V Madhunapantula. Dr Preethi G Anantharaju.

Communicated to Food Research International

8. Sulthana Ayesha, Shasthara Paneyala, Tousif Ahmed Hediya, Arunsaikiran Senthilkumar, Toly Bhavani, Nayani Shrivastava, Naveen Kumar Krishnamoorthy, Manjunath Kalyan, Nikhilesh Anand, Sindhu HS, M. Walid Qoronfleh, Paul Dave, Tanya M. Monaghan, Dinanath Sulakhe, **Saravana Babu Chidambaram**. Gut Microbiome Based Dietary Intervention Improves Health Status in Ischemic Stroke Patients. *Communicated to Journal of Pure and Applied Microbiology*
9. Arehally M. Mahalakshmi, Swaroop Bankoli, Sunanda Tuladhar, Sai Priya, Tousif Hediya, Durai Anand Kumar, Walid Qoronfleh, Musthafa Mohamed Essa, M., **Saravana Babu Chidambaram**. Withanolide-A – The wonder neurotherapeutic molecule from *Withania somnifera*. *Communicated to IJNPND*.
10. Deeksha R Pai; A.H. Tousif Ahmed; **Saravana Babu**; T.M. Pramod Kumar; Balasubramaniam J. Venkatesh M P. Biocompatibility and in vivo efficacy evaluation of an injectable nanostructured lipid carriers-based gel of Leflunomide via Intra-articular delivery. *Communicated to Acta Pharmaceutica Sinica B*.
11. Bipul Ray, Wiramon Rungratanawanich, Karli R. LeFort, **Saravana Babu Chidambaram**, Byoung-Joon Song. Mitochondrial Aldehyde Dehydrogenase 2 (ALDH2) Protects Against Binge Alcohol-Mediated Brain Injury through the Gut-Brain Axis. *Cells* 2024, 13(11), 927
12. **Saravana Babu Chidambaram**, Nikilesh Anand, Sudhir Rama Varma, Srinivasan Ramamurthy, Chandrasekaran Vichitra, Ambika Sharma, Arehally M Mahalakshmi, Musthafa Mohamed Essa. Superoxide Dismutase and Neurological Disorders. *IBRO reports*. 2024, 16, 373-394. <https://doi.org/10.1016/j.ibneur.2023.11.007>
13. Jian Yang, Tousif Ahmed Hediya, **Saravana Babu Chidambaram**, Ruchika Kaul-Ghanekar, Meena Kishore Sakharkar Benzyl isothiocyanate as an alternative to antibiotics? a comparative in vivo study using *Pseudomonas aeruginosa* infection as a model. *Plos one*, 2024 19 (5) e0303490 <https://doi.org/10.1371/journal.pone.0303490>
14. Lakshmi, Shanmugaselvam Gokila; Kamaraj, Murugesan; Mahajan, Megha; Gnaniah, Grace Lydial Pushpalatha; Chellappasebastin, Mabel Joshaline; Pandi-Perumal, Seithikurippu R; Chidambaram, Saravana Babu; Nithya, Thirumullaivoyal Gnanasekaran. Evaluation of Anticancer, Anti-Inflammatory and Antioxidant Potential of *Jasminum*

sambac Linn. Essential Oil. International Journal of Nutrition, Pharmacology, Neurological Diseases, 2024 14(2):237-248

15. Jian Yang, Tousif Ahmed Hediya, **Saravana Babu Chidambaram**, Ruchika Kaul-Ghanekar, Meena Kishore Sakharkar Benzyl isothiocyanate as an alternative to antibiotics? a comparative in vivo study using Pseudomonas aeruginosa infection as a model. **Plos one**, 2024 19 (5) e0303490 <https://doi.org/10.1371/journal.pone.0303490>
16. Hediya TA, Vichitra C, Anand N, Bhaskaran M, Essa SM, Kumar P, Qoronfleh MW, Akbar M, Kaul-Ghanekar R, Mahalakshmi AM, Yang J, Song B-J, Monaghan TM, Sakharkar MK and Chidambaram SB (2024) Protective effects of fecal microbiota transplantation against ischemic stroke and other neurological disorders: an update. *Front. Immunol.* 15:1324018. doi: 10.3389/fimmu.2024.1324018
17. Bipul Ray, Sunanda Tuladhar, Pramod Nagaraju, Ashwini Shivalinga, Arehally Mahalakshmi, Poornima Priyadarshini, Byoung-Joon Song, **Saravana Chidambaram**. Telmisartan protects mitochondrial function, gait, and neuronal apoptosis by activating the Akt/GSK3 β /PGC1 α pathway in an MPTP-induced mouse model of Parkinson's disease. *Accepted in Journal of Integrative Neuroscience*, 2024, 23(2), 29; <https://doi.org/10.31083/j.jin2302029>
18. Phurbu Dolkar; Tenzin Deyang; Nikhilesh Anand; Annan Gopinath Rathipriya; Tousif Ahmed Hediya; Vichitra Chandrasekaran; Naveen Kumar Krishnamoorthy; Vasavi Rakesh Gorantla; Muhammed Bishir; Luay Rashan; Sulie L. Chang; Meena Kishore Sakharkar; Saravana Babu Chidambaram. Trimethylamine-N-Oxide and Cerebral Stroke Risk: A Review. *Neurobiology of Disease*, 2024, 192, 106423, <https://doi.org/10.1016/j.nbd.2024.106423>
19. Seithikurippu R. Pandi-Perumal, Konda Mani Saravanan, Sayan Paul, Ganesh Pandian Namasivayam, **Saravana Babu Chidambaram**. Waking Up the Sleep Field: An Overview on the Implications of Genetics and Bioinformatics of Sleep. *Molecular Biotechnology*, 2024;66, 919-931
20. Naveen Kumar Krishnamoorthy, Manjunath Kalyan, Ahmed Hediya Tousif, Nikhilesh Anand, Pavan Heggadadevanakote Kendaganna, Gurudutt Pendyala, Sowmya V Yelamanchili, Meena Kishore Sakharkar, **Saravana Babu Chidambaram**, Arehally M. Mahalakshmi. Role of the Gut Bacteria-Derived Metabolite Phenylacetylglutamine in Health and Diseases. *ACS Omega*, 2024 9 (3), 3164-3172. DOI: 10.1021/acsomega.3c08184

21. Akshatha N. Srinivas, Diwakar Suresh, Deepak Suvarna, Pankaj Pathak, Suresh Giri, Suman, Suchitha Satish, **Saravana Babu Chidambaram** and Divya P. Kumar. Unraveling the Potential Role of *Tecomella undulata* in Experimental NASH. *Int. J. Mol. Sci.* 2023, 24, 3244. <https://doi.org/10.3390/ijms24043244>

2023

22. RNA-Seq of untreated wastewater to assess COVID-19 and emerging and endemic viruses for public health surveillance. Stephen R. Stockdale, Adam A. Blanchard, Amit Nayak, Aliabbas Husain, Rupam Nashine, Hemanshi Dudani, C. Patrick McClure, Alexander W. Tarr, Aditi Nag, Ekta Meena, Vikky Sinha, Sandeep K. Shrivastava, Colin Hill, Andrew C. Singer, Rachel L. Gomes, Edward Acheampong, **Saravana B. Chidambaram**, Tarun Bhatnagar, Umashankar Vetrivel, Sudipti Arora, Rajpal Singh Kashyap and Tanya M. Monaghan. *The Lancet Regional Health – Southeast Asia* 2023;14: 100205
23. Madhusudhan S, Gupta NV, Rahamathulla M, **Chidambaram SB**, Osmani RAM, Ghazwani M, Ahmed MM, Farhana SA, Sarhan MY, Tousif AH. Subconjunctival Delivery of Sorafenib-Tosylate-Loaded Cubosomes for Facilitated Diabetic Retinopathy Treatment: Formulation Development, Evaluation, Pharmacokinetic and Pharmacodynamic (PKPD) Studies. *Pharmaceutics*. 2023; 15(10):2419. <https://doi.org/10.3390/pharmaceutics15102419>
24. Srinivas AN, Suresh D, **Chidambaram SB**, Santhekadur PK, Kumar DP. Apoptosis antagonizing transcription factor-mediated liver damage and inflammation to cancer: Therapeutic intervention by curcumin in experimental metabolic dysfunction associated steatohepatitis-hepatocellular carcinoma. *J Cell Physiol*. 2024 Jan;239(1):135-151.
25. Asha P Johnson; S.L Jyothi; Hemanth Vikram PR; K Pramod; **Saravana Babu C**, PhD; M P Venkatesh. Bioanalytical method development and validation for the quantification of raloxifene hydrochloride from mice plasma by RP-HPLC. *Microchemical Journal*, 2024; 201:110541
26. Kanyin Liane Ong, Lauryn K Stafford, **Saravana Babu Chidambaram**,... Michael Brauer. GBD 2021 Diabetes Collaborators. Global, regional, and national burden of diabetes from 1990 to 2021, with projections of prevalence to 2050: a systematic analysis for the Global Burden of Disease Study 2021. *The Lancet*. 2023 Jul 15;402(10397):203-234. doi: 10.1016/S0140-6736(23)01301-6.

27. Pandi-Perumal, S.R., Gulia, K.K., Mallick, H.N. et al. Israel–Palestine Conflict: Risk of Sleep Disorders and Post-Traumatic Stress Disorders. *Sleep Vigilance* 7, 113–117 (2023). <https://doi.org/10.1007/s41782-023-00252-5>
28. Pandi-Perumal, S. R., van de Put, W. A. C. M., Maercker, A., Hobfoll, S. E., Kumar, V. M., Barbui, C., Mahalaksmi, A. M., Chidambaram, S. B., Lundmark, P. O., Khai, T. S., Atwoli, L., Poberezhets, V., Kumar, R. R., Madoro, D., Marín Agudelo, H. A., Hoole, S. R. H., Teixeira-Santos, L., Pereira, P., Saravanan, K. M., ... Berk, M. (in press). Harbingers of hope: Scientists and the pursuit of world peace. *Clinical Psychology in Europe*. <https://doi.org/10.23668/psycharchives.13568>
29. Prabhakar, Preeja; Ahmed, Bakrudeen Ali; **Chidambaram, Saravana Babu**; Ramu, Arun Kumar; Pandian, Arjun. Sinapic Acid Improves Neurotransmitter Status and Oxidative Stress-Related Changes in Mouse Model of Experimental Parkinsonism. *International Journal of Nutrition, Pharmacology, Neurological Diseases*, 2023;13(1): 25-31| DOI: 10.4103/ijnpnd.ijnpnd_74_22
30. Narayanan L, Thekkekkara D, Kondaveeti SN, Babu A, Sailen BA, Chidambaram SB, Manjula SN. Deciphering the intricate role of mTOR signaling and autophagy in Parkinson's disease and therapeutic prospects. *J Appl Pharm Sci*. 2023. Online First. <http://doi.org/10.7324/JAPS.2023.156692>
31. Chandrasekaran Vichitra, Ahmed Hediyaal Tousif, Nikhilesh Anand, Kendaganna Heggadadevanakote Pavan, Vasavi Rakesh Gorantla, Arehally M. Mahalakshmi, Ruchika Kaul Ghanekar, Jian Yang, Meena Kishore Sakharkar *, **Saravana Babu Chidambaram**. Polyphenols, Autophagy and Neurodegenerative Diseases: An Review. *Biomolecules* 2023, 13, 1196. <https://doi.org/10.3390/biom13081196>
32. Prabhakar, Preeja; Ahmed, Bakrudeen Ali; **Chidambaram, Saravana Babu**; Kumar, Arun; Pandian, Arjun. In Vitro Ameliorative Effects of Sinapic Acid on Parkinson Related Neurotoxicity in SHSY5Y Cell Lines. *International Journal of Nutrition, Pharmacology, Neurological Diseases* 13(1):p 16-24, January-March 2023. | DOI: 10.4103/ijnpnd.ijnpnd_67_22
33. Deyang, T., Baig, M.A.I., Dolkar, P., Hediyaal, T.A., Rathipriya, A.G., Bhaskaran, M., PandiPerumal, S.R., Monaghan, T.M., Mahalakshmi, A.M. and **Chidambaram, S.B.** (2023), Sleep apnoea, gut dysbiosis and cognitive dysfunction. *FEBS J*. <https://doi.org/10.1111/febs.16960>

34. V, Divakar; Shete-Aich, Anita; H, Manjunath; Anand, Mahesh; **Chidambaram, Saravana Babu**; Sapkal, Gajanan ; Basappa, Basappa; Yadav, Pragma. Discovery of hybrid coumarin and thiouracil conjugates as novel human anti-SARS-CoV-2 agents targeting RdRp as potential interacting biomolecule. *Accepted to ACS Omega*
35. Hitesh Kumar; N. Vishal Gupta; Rupshee Jain; SubbaRao Madhunapantula; **Saravana Babu**; Surajit Dey; Anshita Soni. F3 Peptide Functionalized Liquid Crystalline Nanoparticles for Delivering Salinomycin Against Breast Cancer. *International Journal of Pharmaceutics*, 2023, 643, 123226, <https://doi.org/10.1016/j.ijpharm.2023.123226>
36. Sulthana A, Paneyala S, HSS, Narayan MK, Hediya TA, Sharma S, Senthilkumar A, Dave P, Mahalakshmi AM, **Chidambaram SB**, Monaghan TM, Sulakhe D. Gut microbiome-based dietary intervention in Parkinson disease subject: A case report. *Int J Nutr Pharmacol Neurol Dis* 2023;13:158-65
37. GS Meghana, DV Gowda, **Saravana Babu Chidambaram**, Riyaz Ali Osmani. Amyloid β pathology in Alzheimer's disease: A nano delivery approach. *Vibrational Spectroscopy* 126 (2023) 103510
38. Anand Nikhilesh, Vasavi Rakesh Gorantla and **Saravana Babu Chidambaram**. The role of gut dysbiosis in the pathophysiology of neuropsychiatric disorders. *Cells*. 2023, 12(1), 54; <https://doi.org/10.3390/cells12010054>
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- Editorial Board of Frontiers in Neurosciences (Neurodegeneration)
- Editorial Board, International Journal of Nutrition, Pharmacology, Neurological Diseases, Muscat
- Editorial Board Member, EC Pharmacology and Toxicology, UK
- Editorial Board Member, SM Pharmacology and Pharmaceutics Journal, USA
- Editorial Board Member, Journal of Dementia, USA
- Editorial Board Member, Journal of Research in Pharmaceutics and Drug Development

Reviewer for Journals

- Canadian Journal of Diabetes
- Current Chemical Biology
- Current molecular Pharmacology

- Current trends in Medicine
- Current trends in Pharmacology
- Drug and Chemical Toxicology, Taylor and Francis
- Evidence based complementary and Alternative medicine
- Frontiers in Neuroscience
- Food & Function
- Hypertension Research
- Gut Microbes
- International Wound Journal
- International of Tryptophan research
- IUBMB Life
- Journal of Ethnopharmacology
- Journal of Pharmacy and Pharmacology
- Neuropharmacology, Elsevier
- Neuroscience letters, Elsevier
- Pharmacology, Biochemistry and Behaviour, Elsevier
- Psychopharmacology

Technology Transferred / Patents

1. Under the Industry and Academia collaborative R&D project, Savliv, a herbo-mineral formulation was scientifically validated for its safety and efficacy in the management of hepatic disorders with the grant-in-aid from DPRP, DST, Govt of India and M/s. Harshul Ayur Pharma, Uttrakand, as Industrial collaborator. As the **Principal Investigator**, I have designed the study and executed the scientific validation of the safety and efficacy in vitro and in vivo models. During the course of research, the method of preparation, filtrations technology, and procedure to improve the shelf life of the drug was developed and transferred to the industry. The same product is now being applied for product patent. **The product is commercialised by M/s. Harshul Ayur Pharma, Uttrakand, in the same of SAVLIV (2016).**
2. Livokot is a polyherbal formulation developed by M/s. Arya Vaidya Sala, Kotakkal, Kerela, for the management of liver disorders. As the **Principal Investigator**, I have designed the study and executed the scientific validation of the safety and efficacy in in

vivo models. **The product is commercialised by M/s. Arya Vaidya Sala, Kotakkal, Kerala, in the name of LIVOKOT (2014).**

3. Under the Industry and Academia collaborative R&D project, LIPAR, a polyherbal formulation was developed, standardised, scientifically validated for its toxicity profile and efficacy in the management of hyperlipidemia associated obesity in animal models with the grant-in-aid from DPRP, DST, Govt of India, and M/s. Arvind Remedies Ltd, Chennai, as Industrial collaborator. As the **Co-investigator** of the project, I have designed and executed the in vitro and in vivo animal models of hyperlipidemia. A patent was applied on titled "**A Novel Herbal Formulation for Treating Obesity (Patent No. 466/CHE/2012)**". This product is under clinical trial consideration by the industry partner **(2012)**.
4. Under the Industry and Academia collaborative R&D project, AR7, a polyherbal formulation was developed, standardised, scientifically validated for its toxicity profile and efficacy in the management of Rheumatoid Arthritis in in vitro and vivo models with the grant-in-aid from DPRP, DST, Govt of India, and M/s. Arvind Remedies Ltd, Chennai, as Industrial collaborator. As the **Senior Research Fellow** of the project, I have designed, and executed the in vitro and in vivo animal models of inflammation (acute and chronic), pain and arthritis. **Phase I clinical trial of the product was completed by the industry partner (2010) and a product patent was applied.**
5. Clearliv is a Green Milk research product developed by M/s. Apex laboratories limited, Chennai, for liver disorders. In the capacity of **Research Assistant**, TIFAC CORE, JSS College of Pharmacy, Ooty, I have immensely contributed on the scientific validation of safety and efficacy of Clearliv in animal models. Standardisation of all the extracts has been established without losing the essence of the Ayurvedic tradition. **The product is commercialised by M/s. Apex Laboratories Ltd, Chennai, in the name of CLEARLIV (2005).**
6. Immunit is a Green Milk research product developed M/s. Apex laboratory limited, Chennai, based on classical formula from ancient Ayurvedic text to improve immunity power. In the capacity of **Research Assistant**, TIFAC CORE, JSS College of Pharmacy, Ooty, I have immensely contributed on the scientific validation of safety and efficacy of Immunit. I have investigated ability of Immunit to improve cell and humoral mediated immune titre in various animal models. **The product is commercialised by M/s. Apex Laboratories Ltd, Chennai, in the name of IMMUNIT (2004).**

7. M/s. Tablets India Ltd, Chennai, developed polyherbal syrup, **HAPENZ**, as natural appetite stimulant and growth promoting medicine for children. In the capacity of the **Research Assistant**, TIFAC, JSS College of Pharmacy, Ooty, I have immensely contributed in developing the method for chemical standardisation using HPTLC technique, executing preclinical experiments on rodents and proven the safety and efficacy. **The product is commercialised by M/s. Tablets India Ltd, Chennai, in the name of HAPENZ (2003).**

Conferences / Workshop Organised - As Organising Secretary

1. **International Conference on Neurochemistry and Neuropharmacology, India.** Dated: 14th to 16th, March, 2019, Venue: Rajendra Auditorium, JSS College of Pharmacy, JSS Academy of Higher Education and Research, Mysuru.
2. **28th Annual Meeting of Workshop & National Conference Society for Neurochemistry, INDIA.** Date: 03rd - 12th September, 2014. Venue : Central Research Facility Auditorium, Sri Ramachandra University (SRU), Chennai
3. **Workshop on Alternatives to Use of Animals in Medical Education.** Saturday 28th April, 2012. Venue: Faculty of Pharmacy, Sri Ramachandra University (SRU), Chennai
4. **First National Workshop on Preclinical & Clinical Research.** November 3rd & 4th, 2009. Venue: University Auditorium, Sri Ramachandra University (SRU), Chennai

Conferences : 50 papers presented in National and International Conferences

Honors and Awards:

- ❖ Best Publication Award, JSS Academy of Higher Education & Research, Mysuru (2021)
- ❖ International Brain Research Organisation (IBRO) – Asia-Pacific neuroscience organizations (APRC) – Brain Awareness Week (BAW) grant Award, IBRO, France (2021)
- ❖ Best Publication Award, JSS Academy of Higher Education & Research, Mysuru (2020)
- ❖ Fellow of the Society of Toxicology, Society for Toxicology, India (Dec, 2019)
- ❖ Publication Appreciation award, Indian Pharmaceutical Association, Mysuru Branch (Oct, 2019)
- ❖ Outstanding Contribution to Science – Dr BV David Foundation, Chennai, (Sep, 2019)

- ❖ Outstanding Young Scientist – Parkinson’s disease research, conferred by Food & Brain Research Foundation, India and Society for Neurochemistry, India (SNCI) (16th, March, 2018)
- ❖ 'Outstanding Researcher in Pharmacology' under the Pharmacy Discipline, Venus International Foundation, Chennai (29th September, 2018; vide F. No. VIF/CFN/HA/2018)
- ❖ Dr. APJ Abdul Kalam award for Scientific Excellence -2017, Marina Labs, Chennai (Sep, 2017)
- ❖ Received appreciation award for being one of the key players in getting GLP certification for Sri Ramachandra University's toxicology centre, Chennai (Oct, 2014)
- ❖ Sri Ramachandra University's publication meritorious award for the year, 2014
- ❖ Sri Ramachandra University's publication meritorious award for the year, 2013
- ❖ Sri Ramachandra University's publication meritorious award for the year 2012
- ❖ Sri Ramachandra University's publication meritorious award for the year 2011
- ❖ Executive member of Society for Neurochemistry, India
- ❖ Recipient of Fast Track Outstanding Young Scientist grant from SERB, Department of Science and Technology, Govt of India
- ❖ Recipient of RGYI grant from Department of Biotechnology, Govt of India
- ❖ Best out-going student in Master degree (2002 - 2003)
- ❖ Gold medallist in Master degree (2002 - 2003)
- ❖ Qualified GATE 2000 with 85.95 percentile (a national level exam in India).

Declaration:

I hereby declare that the above-mentioned details are true to my knowledge.

Place: Mysuru



Saravana Babu