

## **First year collaborative Research Projects completed:**

1. Preclinical Safety And Efficacy Of 'Nuna Kadugu' (Internal Drug- NK) and 'Nuna Thailam' (External Drug - NT) In Ven Padai (Vitiligo) – Dr.R.S.Ramaswamy – Collaborative Institution – Sri Ramachandra University, Chennai
2. Standardization and Evaluation of Purification Process of Veeram (Mercuric Per Chloride) Siddha Medicine – Dr.Madhavan – SASTRA University
3. Standardization and Evaluation of Siddha Purification Process of Sulphur with Evaluation of Preclinical safety and in-vitro efficacy of Ganthaga Mezhu proposed for Psoriasis (Kalanjaga Padai) Management – Dr.G.J.Christian, Dr.P.Shanmugapriya – Sri Ramachandra University, Chennai
4. Antihypertensive Potential and Toxicological Evaluation of Kuruthi Azhal Chooranam in Rat Models – Dr.T.Lakshmikantham, - Sri Ramachandra University, Chennai

## **Ongoing Second year Collaborative Research Projects:**

1. Standardization and Evaluation of Purification Process of Veeram (Mercuric Per Chloride) Siddha Medicine – Dr.Madhavan – SASTRA University
2. Standardization and Evaluation of Siddha Purification Process of Sulphur with Evaluation of Preclinical safety and in-vitro efficacy of Ganthaga Mezhu proposed for Psoriasis (Kalanjaga Padai) Management – Dr.G.J.Christian, Dr.P.Shanmugapriya – Sri Ramachandra University, Chennai
3. Antihypertensive Potential and Toxicological Evaluation of Kuruthi Azhal Chooranam in Rat Models – Dr.T.Lakshmikantham, - Sri Ramachandra University, Chennai

## **Ongoing new Research Projects – Public Health Initiative study:**

1. Promoting the Siddha Intervention for Anemia (Pandu) among rural women at adolescent age in Virudhunagar District, Tamil Nadu” for Promotion of AYUSH intervention in Public Health Initiatives during 2015-16 (Plan).

## **Ongoing new collaborative Research Project:**

1. Comparative study on the changes in HbA1c levels in pre-diabetic and diabetic individuals treated with Aavirai Kudineer a Siddha formulation – A non-randomized open clinical study”- Dr.G.J.Christian, Dr.P.Shanmugapriya – The T.N.DR.MGR Medical Univerisity

## **Research Papers Published**

1. XRD analysis of veeram and its intermediates obtained in the purification process involved in mercurial preparation – Madhavan.R, Murugesan.M, Manikavasakam.K et al - International Journal of Pharmacy and Pharmaceutical Sciences - Vol 4, Suppl 2, 2012 – ISSN-0975-1491.
2. Cuminum cyminum, a dietary spice, attenuates Hypertension via endothelial Nitric Oxide Synthase and No pathway in renovascular hypertensive rats-Periyathambi Kalaivani, Ramesh Babu, Saranya, Ganapathy Ramakrishnan, Vijayan Ranju, Sekar Sathiya, Veeraraghavan Gayathri, Lakshmi Kantham Thiyagarajan et al-Inforna healthcare-ISSN 1064-1963 print/1525-6006 online
3. Acute toxicity and the 28-day repeated dose study of a Siddha medicine Nuna Kadugu in rats – Ramaswamy Selvaratnam Ramaswamy et al.– BMC Complementary & Alternative Medicine 2012, 12:190
4. Antimicrobial efficacy of Gandhagam (Raw Sulphur), purified Gandhagam and Gandhaga Mezhu-A traditional Siddha formulation – P.Shanmugapriya, R.Vajrai, G.J.Christian, S.Elansekaran, M.Murugesan, M.Logamanian, K.Manickavasakam - Journal of Pure and applied microbiology - Vol 07 No.02 2013
5. Dr.R.Madhavan, Lecturer Published in-vitro alpha glucosidase inhibitory of abraga Chendooram, a Siddha drug, as a co-author [international journal of pharmacology and clinical sciences-Sep2012,Vol-I Issue: 3 pg79-81

6. Rediscovering of Kalanjagapadai / Psoriasis Treatment with Siddha drug – A primary case report – Dr.G.J.Christian, S.Elansekaran, P.Shanmugapriya et al – 12<sup>th</sup> International congress of Ethinopharmacology-ISE 2012 School of Natural Product Studies, Jadavpur University, India.
7. Dr.N.J.Muthukumar et al, published an article entitled Physico –chemical evaluation and HPLTC finger print of siddha poly herbal formulation “Swasakudori Mathirai” was published in International Journal of Pharmacy and Pharmaceutical Sciences and Research 2014; Vol.5(5): 1837-1842
8. Dr.G.J.Christian, Dr.S.Elansekaran and Dr.K.Vennila, published an article entitled ‘Anti-ulcer efficacy and safety of anda leghyam a ploy herbal Siddha formulation in the International Journal of Pharmaceutical Sciences and Research 2014; Vol.5 (5): 1837-1842.
9. Dr.S.Elansekaran and et al published an article entitled Evaluation of In Vitro Antibacterial Acitivity and Median Lethal Dose Estimation of A Siddha Polyherbal formulation: Singinathachooranam in rat model in International Journal of Pharma and Bio Sciences 2015 Jan; 6 (1): (P) 236-241
10. Acute and 28 days repeated oral toxicological evaluation of Kuruthiazhal Chooranam a poly herbal siddha preparation in rodents. Authors: Lakshmi Kantham Thiyagarajan, V.Gayathri , M.Sugumar, V.Ranju, S.Sathiya, G.Ramakrishnan, C.S.Babu - Journal: Photon 124(2015)- ISJN:6642-3194., The Journal of Ethno biology and Traditional medicine -Impact index:6.38
11. Sesame indium, a Nutritional Supplement, Elicits, Anti amnesic effect via Cholinergic pathway in Scopolamine intoxicated mice - Authors: Saranvana BabuChidambaram, Anbarasi Pandian, Sathiya Sekar, Sumathy Haridass, Ranju Vijayam , Lakshmi Kantham Thiyagarajan, Jayashree Ravichandran, Hanumantha Rao Balaji Raghavendran, Tunku

Kamarul Journal: Online 2015 in wiley online library (Wileyonlinelibrary.com) Journal for Environmental Toxicology (Impact Factor:3.1)

12. Vetha Merlin Kumari. H., Manickavasakam. K., Mohan. S., Standardization of a siddha poly herbal formulation Adathodai chooranam, International Journal of Research in Ayurveda and Pharmacy Vol 6, issue 5, page 609-615, sep-oct 2015.
13. Vetha Merlin Kumari. H., Manickavasakam. K., Mohan. S., GC-MS analysis of bioactive components of a siddha poly herbal drug Adathodai chooranam, International Journal of Research in Ayurveda and Pharmacy Vol 7, issue 2, Mar-April 2016.
14. Nalini Sofia.H., Manickavasakam. K., Vetha merlin kumari.H., Mohan. S, Anti urolithiatic herbs and effective siddha formulations, World Journal of Pharmaceutical Research Vol 4, issue 4, page 892-911, April 2015.
15. Prevalence and Risk factors of Kidney stone - Nalinisofia.H, Manickavasakam. K, Thomas M. Walter Global Journal for Research Analysis, Volume 5, Issue 3 Page 183-188 March-2016
16. Physicochemical analysis of Nandukkal Parpam - Nalinisofia.H, Manickavasakam. K, Thomas M. Walter - Global journal for Research Analysis, Volume 5, Issue 1 Page 242-243 Jan.- 2016
17. A pilot study evaluating Therapeutic efficacy of Siddha formulation Nandukkal Parpam in the management of Renal calculi - Nalinisofia.H, Manickavasakam. K., Current Traditional Medicine ,Volume 1, Issue 2, Page 98-102, July- 2015
18. Dr.S.Sivakumar published – “Antibacterial Activity of Topical Siddha Medicine Sirattai Thylam against selected human pathogens” World Journal of Pharmaceutical Research, Volume 4, Issue 10, 2015, pp:2859-26866.

19. Dr.S.Sivakumar published – “Standardization of Poly Herbal Siddha Medicine Eladhi Chooranam” – Internataional Journal of Pharmaceutical Science Invention Volume 4, Issue 6 June 2015, pp:33-37.
20. Evaluation of Safety and Therapeutic Efficacy of Siddha Formulation Panchamuga Chenduram (Internal Medicine) and Poovarasam Pattai Ennai (External Medicine) on Vitiligo patients (Venpadai) – Muralidass S D, Ramaswamy R S, Muthukumar N J, Mahalakshmi V, Mahadevan M V., Periyasami D- International Journal of Frontiers in Science and Technology.
21. Efficacy of Siddha Medicines with Varmam Therapy in Sirakamba Vatham (Cerebral Palsy) in Children” – Dr.M.Meenakshi Sundaram, Dr.K.Suresh et al - International Jouranal of Multidisciplinary Health Sciences Vol I, Issue:2, Apr-Jun 2015.
22. Protective Effect of Polyherbal Siddha Formulation-Nilavembu Kudineer Against Common Viral Fevers Including Dengue - A Case-Control Approach, G.J. Christian, M. Subramanian, D. Periyasami, K. Manickavasakam, P. Gunasekaran, S. Sivasubramanian and M. Nijavizhi , International Journal of Pharmaceutical Sciences and Research Vol. 6(4): 1656-1660, April 2015
23. Validation of Anti-diabetic Potential of Avirai kudineer a Siddha Herbal formulation-A Review Rajalakshmi, Christian GJ, Shanmugapriya, Jeeva Gladys, IOSR Journal of Dental and Medical Sciences (IOSR-JDMS), Volume 14, Issue 7, Ver. V PP 07-15, July, 2015
24. Anti microbial Screening of Siddha Herbo-mineral medicinal formulation Kanagalinga Mezhuagu against Selected Urogenital and Enteric Pathogens, Christian G J, Ramaswamy R S, Sivaraman D, Nijavizhi M, Anusha S, IOSR Journal of Dental and Medical Sciences (IOSR-JDMS), Volume 15, Issue 1, Ver. I PP 38-43, January, 2016.

25. In vitro and in vivo toxicity study of Kariuppu mezhugu (NIS KM) a Siddha Herbo-mineral formulation, Christian G J, Muralidharan P, Ramaswamy R , Scholars Academic Journal of Biosciences (SAJB), 4(2):132-143,February, 2016.
26. Toxicological Study of a Siddha Sastric Formulation Arumuga Chendharam in Rat Model, Ramamurthy Murugan, Thanigavelan Vembu, Kumarswamy Manickavasakam, Journal of Applied Pharmaceutical Science, Vol. 6, 2016
27. A study on Antibacterial and antifungal activities of extracts of Medicinal plant Aegle marmelos, Dr. K. Saravanasingh, P. George Frdrik, Dr. M. Ramamurthy, International Journal of Advanced Research in Biological Sciences 3(2): 321-32, February, 2016.
28. Analysis of phytochemical constituents and Antimicrobial activity of Carica papaya Dr. K. Saravanasingh, Dr. M. Ramamurthy, Dr. P. Parthiban, International Journal of Advanced Research in Biological Sciences 3(2): 329-334, February, 2016.
29. Bioactivity studies of extracts from Tribulus Terrestris, Dr. K. Saravanasingh, Dr. M. Ramamurthy, International Journal of Current Research in Chemistry and pharmaceutical sciences, 3(1): 40-49, January, 2016.
30. 28-Day Repeated Oral Toxicity Study and Efficacy of a Siddha Polyherbal Formulation Singinatha Chooranam against Platelet Activating Factor-induced Rhinosinusitis in Wistar Albino Rat – S.Elansekaran, V.Geetha, V.Thanigavelan and M.Ramamurthy – Indian Journal of Pharmaceutical Sciences, 2016.
31. Acute and sub-acute (28-days) oral toxicity studies of *Eraippu noi chooranam*- Dr. Amala Hazel .A.M, Dr. Pattarayan. R , Dr.Banumathy. V - International Journal of Advanced Research in Biological Sciences – 2016

32. Physicochemical analysis of Eraippu Noi Chooranam, A Siddha polyherbal formulation - Dr. Amala Hazel .A.M, Dr. Pattarayan. R , Dr.Banumathy. V - International Journal of Advanced Multidisciplinary Research (IJAMR) – 2016
33. GC MS analysis of Thaalisaathi Chooranam (TSC) – a Siddha polyherbal formulation - Suresh K, Pattarayan R, Banumathi V - Indian Journal of Research - 2016
34. Physico-Chemical Evaluation and HPTLC Finger Printing of Siddha Polyherbal Formulation Thaalisaathi Chooranam (TSC) - Suresh K, Pattarayan R, Banumathi V - Indian Journal of Research – 2016
35. Acute and Sub Acute Toxicological Evaluation of the siddha single herbal formulation sengathaari Root Bark (SRB) Decoction in Rats - K Vennila R Pattarayan - Acta biomedica Scientia – 2016
36. Anti Inflammatory Activity of a Siddha Herbal Drug Sengathaari Root Bark (SRB) Decoction in Experimental Rats - K Vennila R Pattarayan - International Journal of Pharmacy & Life sciences – 2016
37. Analytical Standardization of Brahmi Nei and Effect of Siddha Methodologies on Spasticity in Cerebral Palsy - Arul Mozhi P., Pattarayan R., Deivanayagi.S., Banumathy.V - International Journal of Current Research in Medical Sciences – 2016
38. Siddha Medicines And Methodologies on Dynamic Gait Index of Cerebral Palsy Children - Arul Mozhi P., Pattarayan R., Deivanayagi.S., Banumathy.V - International Journal of Recent Advances in Multidisciplinary – 2016
39. The Effect of Brahmi Nei with Massage and Varmam on Spasticity of Cerebral Palsy Children - Dr. Arul Mozhi P., Dr.Pattarayan R., Deivanayagi, S - Global Journal For Research Analysis - 2016

40. Clinical efficacy of siddha bio pharmacological products for muscle tone in the cerebral palsy children - Arul Mozhi P., Pattarayan R., Banumathi V - Sustainable Utilization of Tropical Plant Biomass: Bioproducts, Biocatalysts & Biorefinery (SutB4) 5th International conference - 2016