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### **BACKGROUND / EXPERTISE**

- ✓ Biochemistry and Molecular Biology
- ✓ Toxicology and Pharmacology
- ✓ Drug discovery and Phytochemistry
- ✓ Formulations development and standardization
- ✓ Regenerative medicine

### **EDUCATIONAL QUALIFICATION:**

<b>Degree</b>	<b>Year</b>	<b>Area of Specialisation</b>	<b>Institution/ University</b>
Ph.D	2020	Biochemistry and Biotechnology	Periyar Maniammai Institute of science and Technology, Thanjavur, Tamil Nadu, India
M.Phil	2011	Biochemistry	Eastern Institute for Learning in Management University, Sikkim
M.Sc	2007	Biochemistry	Ponnaiyah Ramajayam College, Thanjavur, Tamil Nadu, India
B.Sc	2005	Botany, Chemistry, Biochemistry	S. G. Govt. Degree College, Piler, Andhra Pradesh, India

### **EXPERIENCE**

**Teaching and Research Experience:** 14 years 3 months

- ✓ Research Scientist –CEFTE, SRIHER – Currently working.
- ✓ Research Associate – Rumi Herbals R&D Centre, Rumi Herbals Pvt Ltd. – 6 years
- ✓ Assistant Professor – Jaya College of Pharmacy – 7 Years

## **RESEARCH ARTICLES PUBLISHED: 21**

1. Jayachandra Kuncha\*<sup>1</sup>, Thirunavukkarasu Sivaraman<sup>2</sup>. “Hepatoprotective Effect of *Aegle Marmelos(L.)* Corr. Leaf Powder (Crude) Against Carbon Tetrachloride-Induced Hepatic Damage in Albino Rats”. Titled research paper was published in an International Peer –Reviewed - *Journal of Pharmaceutical Sciences & Research*. 2011; Vol.3 (7):1360-1363.
2. Jayachandra Kuncha\*<sup>3</sup>, K.Kavitha<sup>1</sup> and M.Murali<sup>2</sup>. “Preliminary Phytochemical Screening, Anthelmintic Activity of Methanolic and Aqueous Extracts of *Syzygium Cumini* Linn. Bark (Myrtaceae).” Titled research paper was published in an International Peer –Reviewed - *Journal of Pharmaceutical Sciences & Research*. 2011; Vol.3 (9): 1460 – 1465.
3. Jayachandra Kuncha\*<sup>1</sup>, A.Maheswaran<sup>2</sup>, and M.Murali<sup>3</sup>. “*In vitro* Evaluation of Nitric Oxide Scavenging activity of Methanolic and Aqueous Extracts of *Syzygium Cumini* Linn. Bark (Myrtaceae)” Titled research paper was published in an *International Journal of Pharmaceutical Sciences and Research*. 2012; Vol.3 (2): 615–619.
4. Jayachandra Kuncha\*<sup>1</sup>, Vazhivittan Rajalakshmi<sup>2</sup>, Gali HarshaPriya<sup>3</sup> and Thirunavukkarasu Sivaraman<sup>4</sup>. “Purification and Characterization of L-Asparaginase Enzyme from Germinated Seeds of *Vigna radiata*”. Titled research paper was Published in an *Advanced Journal of Pharmaceutical sciences*. 2012: Vol.1, Issue 1: 1-7.
5. Jayachandra Kuncha\*<sup>1</sup> and V.SharmilaDevi<sup>2</sup>. “Development of Herbal Drugs in The Treatment of Jaundice”. Titled review article was published in an *International Journal of Ayurvedic and Herbal Medicine*. 2012; Vol. 2 (4): 636 – 645.
6. Jayachandra Kuncha\*<sup>1</sup>, DR. Jalari Ramu<sup>2</sup>. “Assessment of *In vitro* Nitric oxide Scavenging Activity of Ethanolic and Aqueous Extracts of *Trianthema Decandra* (Aizoaceae). Titled research paper was published in an *International Journal of Ayurvedic and Herbal Medicine*. 2012; Vol. 2 (4): 654 – 660.
7. Jayachandra Kuncha\*<sup>1</sup>, V.SharmilaDevi<sup>2</sup>. “*In vitro* Antioxidant activity of Methanolic Extract of *Syzygium cumini* Linn. Bark”. Titled research paper was published in an *Asian Journal of Biomedical and Pharmaceutical Sciences*. 2012; Vol. 2, Issue 12: Page 45 – 49.
8. Jayachandra Kuncha\*<sup>1</sup>. “Quantitative Estimation of Phytoconstituents Present In Ethanolic Extract of *Syzygium cumini* Linn. Bark”. Titled research paper was published in an *International Journal of Ayurvedic and Herbal Medicine*. 2012; Vol. 2, Issue 6: Page 967 – 974.

9. Jayachandra Kuncha\*<sup>1</sup>, V.Sharmiladevi<sup>2</sup> and M.Geethanjali<sup>3</sup>. “Radiation Sickness – Need to Understand, Aware and role of Herbs in the Management Its Impact on Humans – An overview”. Titled review article was published in an *International Journal of Ayurvedic and Herbal Medicine*. 2013; Vol. 3, Issue 1: Page 96 – 974.
10. Jayachandra Kuncha\*<sup>1</sup>, Ganeshkumar.J<sup>2</sup>, V.Sharmiladevi<sup>3</sup> and Prabhu.P<sup>4</sup>. “Anti-Urolithiatic Activity of Aqueous Extract of *Trianthema decandra* Linn. Whole Plant by *Invitro* Methods”. Titled research paper was published in an *International Journal of Ayurvedic and Herbal Medicine*. 2014; Vol. 4, Issue 1: Page 1437 – 1445.
11. Kuncha Jayachandra\*<sup>1</sup>, Prabhu.P<sup>2</sup> Ganeshkumar.J<sup>3</sup> and V.Sharmiladevi<sup>4</sup>. “Anthelmintic Activity of Aqueous Extract of *Trianthema decandra* Linn. Whole Plant (Family: Aizoaceae)”. Titled research paper was published in *World Journal of Pharmaceutical research*. 2014; Vol. 3, Issue 2: Page 2651 – 2657.
12. Jayachandra Kuncha\*<sup>1</sup>, Ganeshkumar.J<sup>2</sup>, V.Sharmiladevi<sup>3</sup> and Prabhu.P<sup>4</sup>. “Evaluation of Antilithiatic potential of aqueous extract of *Trianthema decandra* by *invitro* calcium and phosphate inhibition assay” Titled research paper was published in *World Journal of Pharmaceutical research*. 2014; Vol. 3, Issue 2: Page 3186 – 3192.
13. Jayachandra Kuncha\*<sup>1</sup>, Ganeshkumar.J<sup>2</sup>, V.Sharmiladevi<sup>3</sup> and Prabhu.P<sup>4</sup>. “Evaluation of Antilithiatic potential of aqueous extract of *Trianthema decandra* by *invitro* calcium and phosphate inhibition assay” Titled research paper was published in *World Journal of Pharmaceutical research*. 2014; Vol. 3, Issue 2: Page 3186 – 3192.
14. Jayachandra Kuncha\*<sup>1</sup>, P Thirugnanasambantham<sup>2</sup>, T Muthukumar<sup>3</sup>, N Narayanan<sup>4</sup>, Siva Siddharth<sup>5</sup>. “Development of Analytical Parameters for a Hepatoprotective Polyherbal Formulation-Liverem”. Titled research paper was published in *SOJ Materials Science and Engineering*. 2015; Vol. 3, Issue 2: Page 1 - 7.
15. Kuncha Jayachandra\*<sup>1</sup>, Thirugnanasambantham. P, Kumaran Shanmugam and Narayanan. N. Investigation of Phytochemical Profile and other Safety Parameters for a Hepatoprotective Proprietary Polyherbal Formulation by Using Advanced Instrumentation. *International Journal of Pharmaceutical Sciences Review and Research*. 2017; 47 (1): Page 100 – 105.
16. Simhadri V S D N A Nagesh and Kuncha Jayachandra, *et al.* Antifungal properties of soleshine - An *in vitro* study. *National Journal of Physiology, Pharmacy and Pharmacology*. 2018; Vol 8, Issue 4: Page 1 - 9.

17. Simhadri V S D N A Nagesh and Kuncha Jayachandra, *et al.* Antifungal Activity of Various Extracts of Azadirachta indica leaf - an *In vitro* Study. *International Journal of ChemTech Research*, 2017, 10 (15): Page 305-311.
18. Jayachandra Kuncha\*<sup>1</sup>, Thirugnanasambantham. P, Kumaran Shanmugam and Narayanan. N. *In vitro* Antibacterial and Antifungal activity of hydro-alcoholic extract of Polyherbal Formulation. *Journal of Pharmaceutical Sciences and Research*. 2019; Volume 11, Issue 03, pp721-725.
19. Jayachandra Kuncha\*<sup>1</sup>, Thirugnanasambantham. P, Kumaran Shanmugam, Narayanan. N and Sharmila devi V. Evaluation of *In Vitro* Cytotoxic And Anticancer Activity of Hepatoprotective Polyherbal Formulation In Cell Line Model. *Asian Journal of Pharmaceutical and Clinical Research*. 2019; Vol 12, Issue 4, Page 320-325.
20. Jayachandra Kuncha\*<sup>1</sup>, Thirugnanasambantham. P, Kumaran. S, Narayanan. N and Sharmila devi. V. Evaluation of *In Vitro* Lipid Peroxidation Inhibition activity of Hepatoprotective Polyherbal Formulation. *European Journal of Pharmaceutical Medical Research*. 2019; 6 (3), Page 447-449
21. Sharmila devi.V\*<sup>1</sup>, Jaysree. N, Jayachandra Kuncha, Thirugnanasambantham. P. Qualitative and Quantitative Phytochemical analysis of Hydro-alcoholic extract of Nephroprotective proprietary Polyherbal Formulation - Urizone. *International Journal of Scientific Research*. March 2019; Volume 8, Issue-3, Page 1-3.

### **RESEARCH EXPERIENCE: 7 YEARS**

- ✓ Research Scientist, Department of Clinical Chemistry, CEFTE, SRIHER.
- ✓ Research Associate, Rumi Herbals R&D Centre, Rumi Herbals Pvt Ltd

### **STUDENTS GUIDED FOR RESEARCH:**

#### **Research projects Guided / acted as Industrial Expert Member:**

1. Acted as Industrial Expert Member to the titled project - *Phytochemical analysis, toxicological profiling and anti-smoking activity of a proprietary polyherbal formulation (VLC01) in animal model* – Ph.D in Biotechnology Dissertation, Nov 2018, from Dr. MGR Educational and Research Institute, Maduravoyal, Chennai.
2. Acted as Industrial Expert Member to the titled project - *Formulation and Evaluation of Pain Relieving Polyherbal Ointment (Pail Heal)* – B.Pharm Dissertation, Aug 2018, Jaya College of Pharmacy, Chennai (Affiliated to The TN Dr.MGR Medical University, Chennai)

3. Acted as Industrial Expert Member to the titled project '*Formulation and toxicity profiling and nephroprotective activity of polyherbal formulation - Urizone on gentamicin induced nephrotoxicity in rats*': M.Pharm (Pharmacology), Madras Medical College, Chennai. Dissertation submitted to The TN Dr.MGR Medical University, Chennai, May 2018,
4. Acted as Industrial Expert Member to the titled project '*Formulation and Screening of Antifungal activity of polyherbal ointment*' Ph.D work, May 2018 – Dept. of Pharmacology, Tagore Medical College, Chennai (Affiliated to Bharath University, Chennai)
5. Acted as Investigator to the titled project '*Development of Quality control standards for a proprietary polyherbal Hair oil and Shampoo formulations* (Internal Project), May 2018 – Dept. of Quality Control, Nature shine herbals Pvt. Ltd, Chennai – 58
6. *Phytochemical Screening of a Polyherbal Formulation and Pharmacoinformatic Approach Towards Drug Development For Parkinson's Disease* - Final Year B.Tech (Biotechnology) Dissertation, April 2018. St. Joseph's College of Engineering, Chennai (Affiliated to Anna University, Chennai)
7. *Formulation and evaluation of In vivo wound healing activity of a polyherbal ointment (Dermino)* - Final Year M.Tech (Biotechnology) Dissertation April 2018 from Dr. MGR Educational and Research Institute, Maduravoyal, Chennai.
8. *Development of a polyherbal anti-tussive formulation (Cofri) and evaluation of its efficacy by In vitro antioxidant, antimicrobial, normal and cancer cell line models*. Final Year M.Tech (Biotechnology) Dissertation, April 2018 from Dr.MGR Educational and Research Institute, Maduravoyal, Chennai.
9. *Formulation, development of quality control standards and evaluation of In vivo anti-inflammatory, In vitro anti-microbial and antioxidant activity of topical polyherbal cream (Alwins cream)* - Final Year M.Tech (Biotechnology) Dissertation, April 2018 from Dr.MGR Educational and Research Institute, Maduravoyal, Chennai.
10. *Formulation and screening of quality control parameters of a nutritional supplement powder (Balyaposhak)* - Final Year B.Sc (Biotechnology) project, May 2018 from Dr.MGR Educational and Research Institute, Maduravoyal, Chennai.
11. *Screening of quality control parameters and In vitro anti-microbial activity of polyherbal foot wash formulation (Neem shampoo)*. M.Sc (Chemistry) Dissertation, April 2018, Dr. Ambedkar Government Arts College, Chennai. (Affiliated to University of Madras, Chennai).

12. *Screening of quality, safety parameters and evaluation of In vitro antioxidant activity of polyherbal tablet (REP004)* – M.Sc (Chemistry) Dissertation, April 2018, Dr. Ambedkar Government Arts College, Chennai. (Affiliated to University of Madras, Chennai).
13. *Standardization and evaluation of safety parameters of proprietary polyherbal syrup – “Aswa” used for general health* - M.Sc (Chemistry) Dissertation, April 2018, Dr. Ambedkar Government Arts College, Chennai. (Affiliated to University of Madras, Chennai).
14. *Formulation and development of quality control parameters for a proprietary polyherbal antimicrobial Hair shampoo – NSNS01*: M.Sc (Chemistry) Dissertation, April 2018, Dr. Ambedkar Government Arts College, Chennai. (Affiliated to University of Madras, Chennai).
15. *Assessment Quality Control Parameters (BIS) and evaluation of antimicrobial efficacy of Marketed Herbal soaps* - M.Sc (Chemistry) Dissertation, April 2018, Dr. Ambedkar Government Arts College, Chennai. (Affiliated to University of Madras, Chennai).
16. *Screening of Antimicrobial efficacy of ethanolic extract of Palm Kernel (Borassus flabellifer) on different pathogenic microbes* - M.Sc (Chemistry) Dissertation, April 2018, Anna Adharsh College for Women, Chennai. (Affiliated to University of Madras, Chennai).
17. *Preparation and Evaluation of Herbal cosmetics (Lipstick and Face pack)* – B.Tech (Biotech) Dissertation, April 2018 - Dr.MGR Educational and Research Institute, Maduravoyal, Chennai.
18. *A survey and analysis of market potential and awareness of herbal products in around Perungudi, Chennai* – M.B.A (Marketing) Dissertation, May 2018. (Affiliated to Anna University, Chennai)
19. *Investigation of Phytochemical profile by GC-MS, LC-MS/MS and assessment of safety parameters for a Polyherbal nutraceutical formulation (RPVLE-01)* – Final Year B.Tech Dissertation – Apr 2017, Sree Sastha Institute of Engineering and Technology, Chennai. (Affiliated to Anna University, Chennai)
20. *Formulation, Evaluation of Polyherbal Face Cream and In vitro antioxidant activity of polyherbal face cream (NSGF)* - Final Year B. Pharmacy Dissertation – Aug 2017, Jaya College of Pharmacy, Chennai (Affiliated to The TN Dr.MGR Medical University, Chennai)
21. *In silico Analysis of Phytochemical compounds in Polyherbal formulation for the inhibition of HMG - CoA Reducetase* - Final Year B. Pharmacy Dissertation - Aug 2017, Jaya College of Pharmacy, Chennai (Affiliated to The TN Dr.MGR Medical University, Chennai)

22. *Development and evaluation of quality control parameters for marketed polyherbal hair oil (Hairtone)* - M.Sc Chemistry Dissertation - Mar 2016, Anna Adharsh College for Women, Chennai. (Affiliated to University of Madras, Chennai).
23. *Standardization and antifungal activity of a marketed polyherbal shampoo (Shikar)* - M.Sc Chemistry Dissertation - Mar 2016, Anna Adharsh College for Women, Chennai. (Affiliated to University of Madras, Chennai).
24. *Preliminary phytochemical screening and Invitro anti-diabetic activity of a polyherbal formulation* - M.Sc Chemistry Dissertation - Mar 2016, Anna Adharsh College for Women, Chennai. (Affiliated to University of Madras, Chennai).
25. *Invitro antioxidant activity of synthesized zink oxide nanoparticles* - M.Sc Chemistry dissertation - M.Sc Chemistry Dissertation - Mar 2016, Anna Adharsh College for Women, Chennai. (Affiliated to University of Madras, Chennai).
26. *Invitro Antioxidant and anti fungal (Dermatophytes) activity of a polyherbal face cream formulation (Fairon)* - M.Sc Chemistry Dissertation - Mar 2016, Govt. Arts College for Men, Nandanam, Chennai. (Affiliated to University of Madras, Chennai).
27. *Development of Quality Control Parameters and Invitro antioxidant activity of a polyherbal coffee (Moolcafe)* - M.Sc Chemistry Dissertation - Mar 2016, Govt. Arts College for Men, Nandanam, Chennai. (Affiliated to University of Madras, Chennai).
28. *Developing Quality standards and Invitro antifungal activity of medicated Oil (Skinto) - a marketed polyherbal Thailam formulation* - M.Sc Chemistry Dissertation - Mar 2016, Govt. Arts College for Men, Nandanam, Chennai. (Affiliated to University of Madras, Chennai).
29. *Evaluation of Quality Control Parameters and Invitro Antimicrobial for A Polyherbal Tooth Powder (Glodent)* – M.Sc Chemistry Dissertation - Mar 2015, Anna Adharsh College for Women, Chennai. (Affiliated to University of Madras, Chennai).
30. *Green synthesis of silver nanoparticles using aqueous extract of polyherbal formulation and their anti microbial activity over pathogenic microbes* - M.Sc Chemistry Dissertation - Mar 2015, Anna Adharsh College for Women, Chennai. (Affiliated to University of Madras, Chennai).
31. *Development of quality control standards and Invitro Antibacterial activity of a polyherbal face cream (Fairon)* - M.Sc Chemistry Dissertation - Mar 2015, Anna Adharsh College for Women, Chennai. (Affiliated to University of Madras, Chennai).

32. Acted as Co-Investigator for titled internal project: *Formulation and Setting a quality control parameters for a poly herbal formulation – Dermoshine* (Rumi Herbals R&D Centre, Chennai) Feb 2015
33. Acted as Co-Investigator for titled internal project: *Assessment of quality control standards for a poly herbal formulation capsules – Spirulina plus, Menorin and Femitone*. (Rumi Herbals R&D Centre, Chennai) Dec 2014
34. *Evaluation of Anti-lithotropic potential of aqueous extract of Trianthema decandra by In-vitro methods* – Research work 2013, Jaya College of Pharmacy, Chennai (The TN Dr.MGR Medical University, Chennai)
35. *In-vitro Anti-Artheritic and anti-Inflammatory activity of Ethanolic and aqueous extract of fruits of Solanum tarvum* – Final Year B. Pharmacy Dissertation – Aug 2013, Jaya College of Pharmacy, Chennai (The TN Dr.MGR Medical University, Chennai)
36. *Evaluation of Antioxidant and Anthelmintic activity of Methanolic extract of Syzygium cumini bark (Myrtaceae)* - Final Year B. Pharmacy Dissertation – Aug 2011, Jaya College of Pharmacy, Chennai (The TN Dr.MGR Medical University, Chennai)
37. *In vitro Anti-oxidant and Anti-cancer Activity of Ethanolic Extract of Clerodendram inermae Root on Colon Cancer (HT-29) Cell Lines* - Final Year B. Pharmacy Dissertation – Aug 2012, Jaya College of Pharmacy, Chennai (The TN Dr.MGR Medical University, Chennai)
38. *Isolation, Purification and Characterization of L-Asparaginase Enzyme from germinated Green dhaal (Vigna radiata)* - Final Year B. Pharmacy Dissertation – Aug 2010, Jaya College of Pharmacy, Chennai (The TN Dr.MGR Medical University, Chennai)



## **TRAINING UNDERGONE @ NATIONAL LEVEL**

- ✓ Participated in “Training Course for Archivist of GLP Facilities” conducted by National Good Laboratory Practice (GLP) Compliance Monitoring Authority (NGCMA), Department of Science and technology, Govt. of India at National Productive Council, New Delhi on 11-12<sup>th</sup> November 2021.
- ✓ Successfully completed Seven days National Training on “Lab Animals in Bio-Medical Research” Organized by Department of Animal Genetics and Breeding, College of Veterinary and Animal Sciences, Maharashtra Animal and fishery Sciences University, Parbhani, Nagpur during 21st – 27th September 2021.
- ✓ Participated in Online Webinar Industrial Training Program on “GOOD LABORATORY PRACTICE: NECESSITY OF CURRENT TIMES” conducted by Trichinopoly.I on 13<sup>th</sup> September 2020.
- ✓ Microbiology: Quality control Analysis of Foods and Herbal drugs - Indian Institute of Food Processing Technology, (Ministry of Food Processing Industries, Govt. of India), Thanjavur.
- ✓ Hands-on Laboratory Experiments and Analytical Instrumentation Exposure from Division of Natural Product Chemistry and Process Development, CSIR - Institute of Himalayan Bioresource and Technology (CSIR-IHBT), Palampur, Himachal Pradesh. (HPLC, UHPLCMS, HPTLC, GCMS, LCMS and IR), Nov 22 – Dec 1, 2018.
- ✓ Analytical Instrumentation handling from Department of Analytical Chemistry CSIR - Central Institute of Medicinal and Aromatic Plants (CSIR-CIMAP), Lucknow, Uttar Pradesh. (HPLC and HPTLC), Nov 9 - 19, 2018.
- ✓ Molecular docking: Attended Workshop on “In silico Molecular Modelling and Drug Designing” – during 08th -12th January 2018, conducted by Bioinformatics Centre & ARIS Cell, Madras Veterinary College, Chennai–600007.

## **SYMPOSIUM/SEMINARS ATTENDED**

- ✓ Attended one day Training on `Mushroom Cultivation` held at Department of Plant Pathology, Agriculture College and Research Institute, Madurai on 17th Sep, 2018.
- ✓ Completed Good Clinical Practice course and Received Certificate from NIDA Clinical Trial Network, NIDA Clinical coordinating Centre with the help of National institute of Health. August 2018.
- ✓ Attended workshop on `Opportunities, Recent Innovations and Challenges in Indian Traditional Medical Systems, held on 13th April, 2018. Organized by The Bio-Incubator and Lab, Vel Tech Technology Incubator (Vel Tech TBI) supported by DST, Govt. of India at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai.

- ✓ Presented Poster in the title ``Quantitative estimation of phytoconstituents and in vitro anticancer, antioxidant activity of a polyherbal formulation. In an International Conference on Recent Trends in Analytical Chemistry -II (ICORTAC II -2018), Conducted by the Dept. of Analytical Chemistry, University of Madras, during 15th – 17th, March, 2018.
- ✓ Presented as poster in the titled ``Toxicity profiling of a polyherbal proprietary polyherbal formulation. In 69th Indian Pharmaceutical Congress organized by Indian Pharmaceutical Congress Association (IPCA), Hosted by Association of Pharmaceutical Teachers of India (APTI) at Chitkara University, Rajpura, Chandigarh (Punjab), India, during 22nd -24th, December, 2017.
- ✓ Attended Prof. T. Raju Felicitation Seminar on Chromatographic Techniques, Organized by the Department of Analytical Chemistry, University of Madras, on 29th June 2017.
- ✓ Attended a Re-orientation program on clinical trials (Herbal products) on humans, at Central Council Research in Siddha, Chennai on 31 March, 1st and 2nd April 2016. Siddha Central Research Institute, CCRS, Arumbakkam, Chennai. Under Ministry of AYUSH, Govt. of India.
- ✓ Given Oral presentation on Phytoremediation in the National Conference on Biodegradation and Bioremediation organised by Jaya School of Life Sciences, Jaya College of Arts and Science, Thiruninravur held on March 9, 2011.
- ✓ Participated in the Indo – American Pharmaceutical Regulatory Symposium conducted by the Department of Pharmaceutics, Faculty of Pharmacy, Sri Ramachandra University Chennai on November 20 & 21, 2010.
- ✓ Participated in Indian Herbal Conference – 2010, Jointly organised by Cholayil Ayurvedic Health and Research Academy and Medimix at Ammu Swaminathan Auditorium, Chennai on 13th – 14th February 2010.
- ✓ Participated in a National symposium on Exploring the research platform for pharmaceutical Product and process development (p3D`08) 15 & 16th March`08 organized by Department of Pharmaceutical Engineering Technology, Anna University, Trichy, T.N
- ✓ Participated in an International Conference in Life Through Chemistry. Conducted by UGC at Ponnaiyah Ramajayam College, Thanjavur, T.N.
- ✓ Given oral presentation on Hepatoprotective activity of Aegle marmelos Leaf powder (crude) against CCl4 induced Hepatic Damage in Albino Rats in a National Seminar Conducted by Bharathidasan University and UGC, Trichy, T.N
- ✓ Demonstration on Soxhlet apparatus in a Science Exhibition conducted by P.R.C, Thanjavur.

## **PAPERS PRESENTED IN NATIONAL/INTERNATIONAL SEMINARS**

- ✓ Presented Poster in the title ``Quantitative estimation of phytoconstituents and in vitro anticancer, antioxidant activity of a polyherbal formulation. In an International Conference on Recent Trends in Analytical Chemistry -II (ICORTAC II -2018), Conducted by the Dept. of Analytical Chemistry, University of Madras, during 15th – 17th, March, 2018.
- ✓ Presented as poster in the titled ``Toxicity profiling of a polyherbal proprietary polyherbal formulation. In 69th Indian Pharmaceutical Congress organized by Indian Pharmaceutical Congress Association (IPCA), Hosted by Association of Pharmaceutical Teachers of India (APTI) at Chitkara University, Rajpura, Chandigarh (Punjab), India, during 22nd -24th, December, 2017.
- ✓ Awarded Best Poster for the presentation title `Development of quality Control parameters for a Hepatoprotective Proprietary polyherbal formulation`. International Conference on Recent Trends in Analytical Chemistry (ICORTAC-2015), Conducted by the Department of Analytical Chemistry, University of Madras, during 28-30, December, 2015.
- ✓ Presentation poster in the titled ``Investigation of phytochemical profile and other safety parameters in a proprietary polyherbal formulation. UGC Sponsored National Seminar on Recent Advances in Plant Biology, Organized by Department of Botany with specialization of Plant Biotechnology, at The Standard Fireworks Rajaratnam College for Women, Sivakasi, T N, during 13th and 14th July, 2017.
- ✓ Participated and Presented Recent Developments, Technical and safety aspects of Ayurvedic and Siddha medicines, in one day Continuing Medical Education(CME) program held on 27th July, 2018 at Kumbakonam. Organized by Eswar Health Education and Research Trust (EHEART), Chennai.
- ✓ Presentation poster in the titled ``Investigation of phytochemical profile and other safety parameters in a proprietary polyherbal formulation. UGC Sponsored National Seminar on Recent Advances in Plant Biology, Organized by Department of Botany with specialization of Plant Biotechnology, at The Standard Fireworks Rajaratnam College for Women, Sivakasi, T N, during 13th and 14th July, 2017.

## **THESIS WORK DONE DURING POST GRADUATION/PHD**

Ph.D thesis title: Standardization, evaluation of toxicity profile and hepatoprotective activity of polyherbal formulation in alcohol induced hepatotoxicity in Wistar albino rats.

Key points: A polyherbal formulation was developed, standardized and analyzed safety parameters as regulatory norms. The phytochemical composition was screened and quantified using HPLC/UPLC, GCMS and LCMS. To ascertain its safety acute and subacute toxicities was conducted as per OECD guidelines and found safe. To know the hepatoprotective efficacy, alcohol induced hepatotoxicity model in Wistar rats was adopted and the results are found very encouraging in both biochemically and histopathological examination. The mechanism behind the therapeutic effect was predicted and explained through molecular docking studies.

### **PROJECTS HANDLED**

- ✓ Played key role in the following formulations development, standardization, preclinical and clinical evaluation – Industry R&D Funding.

<b>S. No</b>	<b>Brand Name of the Tablet</b>	<b>Indication</b>
1	Hepsave 500mg	Alcoholic liver diseases, Hepatic fibrosis, Hepatocytes regeneration
2	Diasalvit 700mg	Diabetes
3	Diasalve 700mg	Diabetes
4	Slimtune 750mg	Obesity
5	Lipiflat 400mg	Hypocholesterolemic
6	Zenstep 300mg	Reduction of Stress
7	Vilung detox300mg	Respiratory antioxidant
8	Androwin 300mg	Male rejuvenator
9	Pcoswin 400mg	PCOS
10	Gainlact 300mg	Galactagogue
11	Hridhaid 300mg	Anti-Atherosclerotic and improves cardiac function
12	Gitplus 400mg	Diabetes and related GIT complications
13	Carialox 500mg	Thrombocytopenia, Fever, inflammation and Immunostimulant
14	Aurobael 350mg	Diabetes and related complications
15	Kristalox 350mg	Urolithiasis and CKD
16	Quikplate 400mg	Thrombocytopenia, Fever and viral infection
17	Renorej 400mg	Diabetic nephropathy and CKD
18	Heptune 300mg	Non-Alcoholic fatty liver
19	Diabvita 450mg	Diabetes
20	Decholes 300mg	Stress and Anxiolytic
21	Viltone 350mg	Gastritis
22	Carifeb 400mg	Fever and viral infection
23	Haemogain 500mg	Anaemia
24	Demoshine 500mg	Skin care
25	SpirulinaPlus 500mg	General Health
26	Resprotect 600mg	Respiratory antioxidant, Anti-inflammatory agent
27	Moringavita 700mg	General health, Vitamins and Mineral supplement

28	Herbosheid 500mg	Immunostimulent
29	Herbisvir 600mg	Antiviral and fever
30	Curryplus 500mg	General health, food supplement

### **AWARDS RECEIVED**

- ✓ Awarded Best Poster for the presentation title `Development of quality Control parameters for a Hepatoprotective Proprietary polyherbal formulation`. International Conference on Recent Trends in Analytical Chemistry (ICORTAC-2015), Conducted by the Department of Analytical Chemistry, University of Madras, during 28-30, December, 2015.
- ✓ `Best Teacher award` from Jaya College of Pharmacy, Chennai. (Affiliated to The TN Dr.MGR Medical University, Chennai)

### **INNOVATIVE ACTIVITIES/INTERVENTIONS IN THE AREA OF EXPERTISE**

#### **Industry – Institutional Co-ordinator:**

1. Organised 12 days Industrial Summer Internship for Final Year B. Tech (Biotechnology) students from Vellore Institute of Technology, Vellore, T N at Rumi Herbals R&D Centre, Chennai from 14.5.18 – 26.5.18
2. Organised 6 days Industrial Internship for Final Year B.Pharmacy students from Jaya College of Pharmacy at Rumi Herbals R&D Centre, Chennai from 7.5.16 to 12.5.18
3. Organised 6 days Industrial Internship for Final Year B.Pharmacy students from Jaya College of Pharmacy at Rumi Herbals R&D Centre, Chennai from 9.5.16 to 14.5.16.
4. Organised 6 days Industrial Internship for Final Year B.Pharmacy students from Jaya College of Pharmacy at Natureshine Herbals Pvt Ltd, Chennai from 2.5.16 to 8.5.16.
5. Organised 10 days Industrial Internship for Final year M.Sc students from Dr. Ambedkar Government Arts College, Vyasarpadi, Chennai at Rumi Herbals R&D Centre, Chennai from 11.5.17 to 22.5.17
6. Conducted Reorientation programme on Past, Present and Future Research on Herbal Medicines for Faculty members of Anna Adharsh College for women, Chennai – Aug 2016.

7. Conducted classes on Recent trends and Quality control of Herbal Medicines at Anna Adharsh College for women, Chennai – Aug to Sep 2016.
8. Conducted classes on Recent trends and Quality control of Herbal Medicines at Anna Adharsh College for women, Chennai – Aug to Sep 2017
9. Coordinator and Faculty members for Certificate course in Herbal Entrepreneurship (CHE), Conducted by EHEART, Chennai.

**Member of the Institutional Committees**

- ✓ Research Board Member (External) – Rumi Herbals Pvt Ltd.