

Dr. Shan Sasidharan



**Ph. D. (Pharmacy/Pharmacology),
Pharm D, MBA (Health Care),
BCMAS-US,
PGDPHN (Public Health & Nutrition)**

9188325339



drshansasidharan@yahoo.co.in

drshan@pkhil.com

dr.shan@carekeralam.com



Director (R&D),
CARE KERALAM,
Koratty, Trissur, Kerala,
India



Director (R&D),
Pankajakasthuri Herbal
Research Foundation,
Kattakada,
Thiruvananthapuram,
Kerala, India

Director (R&D),
Pankajakasthuri Herbals
India (P) Ltd
Kattakada, Kerala, India

Key skills

Analytical thinking, planning



Strong communication



Tolerant and flexible



Organization and prioritization



Problem solving



Team leadership



Employ creative solutions when
carrying out experiments



Networking skills and ability to
build effective links with
external organizations



Team leadership

Publons Id: AAU-5271-2021

Orcid id: <https://orcid.org/0000-0002-1670-3638>

Academia: [lincolnniversitycollege.academia.edu/
DrShansasidharan](https://www.lincolnniversitycollege.academia.edu/DrShansasidharan)

[https://in.linkedin.com/in/dr-shan-sasidharan-
5a14b331u_](https://in.linkedin.com/in/dr-shan-sasidharan-5a14b331u_)

[https://scholar.google.com/citations?user=cDZvs
YgAAAAJ&hl=en](https://scholar.google.com/citations?user=cDZvsYgAAAAJ&hl=en)

[https://www.researchgate.net/profile/Shan-
Sasidharan](https://www.researchgate.net/profile/Shan-Sasidharan)

Objective

To impart intrinsic knowledge of the subject in theoretical, practical and research aspects. To indulge high quality research to aid drug/product discovery and development. Further to associate myself with an organization that provide an opportunity to accept challenges by demonstrating my skills and thereby improving my knowledge with latest trend that work dynamically towards the objective of the organization and do my best for the growth of the organization.

Skills

- ❖ Design, plan and conduct controlled experiments and/or clinical trials to improve understanding of a drug's activity
- ❖ Use computers, high technology measuring systems and other sophisticated equipment to collect, analyse and interpret data
- ❖ Apply and develop the results of research to work through a variety of applications, such as new products, processes, techniques and practices
- ❖ Draw up proposals for future developmental tests
- ❖ Organize and oversee tests of new drugs and medicines, ensure quality control and secure approval for their use
- ❖ Liaise with regulatory authorities to ensure compliance with local, national and international regulations
- ❖ Plan, coordinate and supervise the duties of other technical staff and train or mentor early-career pharmacologists.

Excellency

- Research & Development
- Product/ Process development
- Cosmetics and nutraceuticals development
- Pharmaceutical engineering
- Quality assurance/Quality control
- Process validation
- Preclinical and clinical studies
- Clinical trial management
- Industrialization and industry management
- Administration and man power management
- Health care management
- Health system and Hospital management
- Technical knowhow management
- Intellectual property
- Regulatory affairs
- Product licensing or management
- Tissue culture technique

Professional Experiences

- 1. Director (R&D)** **January 2021 to till date.**
CARE KERALAM, Koratty, Trissur, Kerala, India
- 2. Director (R&D)** **November 2019 to till date.**
Pankajakasthuri Herbal Research Foundation,
Kattakada, Thiruvananthapuram, Kerala, India
- 3. Director (R&D)** **November 2019 to till date.**
Pankajakasthuri Herbals India (P) Ltd.,
Kattakada, Thiruvananthapuram, Kerala, India
- 4. Assistant Professor** **June 2016 to till date.**
Nirmala College of Health Sciences,
Chalaky, Kerala, India
- 5. Assistant Director (R&D)** **July 2019 to November 2019**
Pankajakasthuri Herbal Research Foundation,
Kattakada, Thiruvananthapuram, Kerala, India
- 6. Assistant Director (R&D)** **July 2019 to November 2019**
Pankajakasthuri Herbals India (P) Ltd,
Kattakada, Thiruvananthapuram, Kerala, India
- 7. Head (R&D, QA/QC)** **August 2015 to November 2019**
Solace research (P) Ltd., Nirapara, India.
- 8. Total Experience: 7 Years.**

Current Research and Development (R&D) activities

R&D is generally thought to be essential for organizational competition, innovation, and improvement. For firms to stay “alive” and remain competitive, it must innovate by implementing multidisciplinary technologies. Our R&D department mainly focusing on the following area under my guidelines:

- ❖ Standardization of Herbal Ingredients and Herbs
- ❖ Standardization of Herbal formulation and classical Ayurvedic formulation.
- ❖ Evaluation and clinical studies on various classical formulation in Ayurveda
- ❖ Formulation of treatment guidelines for various clinical conditions and disease management by Ayurveda.
- ❖ Clinical trials and clinical research in modern and Ayurvedic drugs.
- ❖ Bioavailability and Bioequivalence study in Ayurvedic drugs.
- ❖ Drugs and Poison information Centre and Peripheral Pharmacovigilance Centre in Ayurveda
- ❖ Introduction of Modern techniques and mechanizations in Ayurveda industry
- ❖ Standardization of various Ayurvedic formulation and crude drugs for Quality Assurance and Quality Control.
- ❖ Formulations, evaluations, Standardization and clinical evaluation of newer dosage form and delivery systems in Ayurveda like nanoparticles etc.
- ❖ Various agricultural techniques and tissue culture techniques for production and authentication of Herbal crude drugs.
- ❖ Genomics, Biotechnology in Phytomedicine and Phytopharmaceuticals development.
- ❖ Various antimicrobial studies
- ❖ Various Decontamination techniques to remove contaminations like heavy metals, pesticide residue, microbial toxins and other chemical residues.
- ❖ Hallmarking of standards to Herbal ingredients and Herbal drugs in Ayurveda.
- ❖ Initiations of Research organization work to other research institutions, industries students and academic institutions.
- ❖ Clinical trials and clinical research on various Herbal formulations.
- ❖ Pharmacological, Toxicological and animal studies of various Herbal formulations.

Education

Degree/Certificate	Subject	Year	Institution/University
Board Certified Medical Affairs Specialist (BCMAS)	Certification	2021	ACMA (Accreditation Council of Medical Affairs), USA
Ph. D	Pharmacy	2022	Lincoln University College, Malaysia
MBA	Health Care	2016	Sikkim Manipal University

	Management		
Doctor of Pharmacy (Post Baccalaureate)	Pharmacy	2014	Kerala University of Health Sciences
B. Pharm	Pharmacy	2009	The Tamil Nadu Dr. M.G.R Medical University, Tamil Nadu
D. Pharm	Pharmacy	2001	Directorate of Medical Education
ACP (Registered Aromatherapist Programme)	Aromatherapy	2016	Aroma head Institute, School of essential oil studies, Florida, USA
Pre-degree	Biology, Physics, Chemistry	1998	University of Kerala
SSLC	All subjects	1996	Kerala State Board

Other Professional Qualifications

Degree/Certificate	Subject	Year	Institution/University
PG Diploma in Public Health Nutrition (PGDPHN)	Public Health & Nutrition	2015	Public Health foundation of India, New Delhi
Advanced Certification Program in Clinical Research (ACPCR)	Advanced clinical research	2013	Catalyst, New Delhi
Oncology Clinical Trials Training (OCTT)	Oncology clinical trial training	2013	Catalyst, New Delhi
Professional Certificate in Pharmacovigilance (PCPV)	Pharmacovigilance	2012	Catalyst, New Delhi
Professional Diploma in Clinical Research (PDCR)	Clinical research	2011	Catalyst, New Delhi

Experience in industrial product formulations

Experience in the formulation and standardization of the following products.

1. Development of Pankajakasthuri ZingiVir-H
2. Development of Pankajakasthuri Cough syrup (New version)
3. Development of Pankajakasthuri Orthoherb cream
4. Development of Pankajakasthuri Anticid
5. Development of Pankajakasthuri herbo clean- fruit and vegetable wash
6. Development of Pankajakasthuri herbo clean- meat and fish wash
7. Development of Pankajakasthuri DiabetEaze powder
8. Development of Pankajakasthuri Breathe Eazy nasal drops
9. Development of Pankajakasthuri antihepatitis B
10. Development of Pankajakasthuri- Anti-BPH
11. Development of Pankajakasthuri herbal tooth paste
12. Development of Herbal vaginal wash.
13. Development of polyherbal anaesthetic injection

Patent filed

1. Hareendran Nair J & Shan Sasidharan (2021) A disruptive therapeutic formula to manage prostate carcinoma from hexane extract of *Caesalpinia bonduc*. Reference number: E-101/11687/2021-CHE.
2. Biju Karnan & Shan. S (2014) An improved rice bran-based nutraceutical product. Application number: Application No.2309/CHE/2013 A

Technologies developed

1. Decontamination techniques of Heavy metals, Pesticides and Chemical contaminants from Herbal crude drugs.
2. Development of polyherbal anaesthetic injection and other dosage forms.
3. Development of decontaminating herbal solutions for the decontamination of (a) Herbs, (b) Vegetables & fruits and (c) Meat & fish.
4. Herbal waste management through improved composting technique under waste to wealth mission programme.
5. Augmentation of stability and shelf life of Pankajakasthuri anticid after opening of the bottle.

Experience in handling funded projects

Project Title	Start Date	Completion Date	Project cost (Rs.)	Sponsoring organization
Scientific assessment on Ethno Dermatological plants used by Malayali tribal community of Tamil Nadu	2/11/2021	1/11/2023	1.88 crores	Department of Science and Technology, New Delhi

Eight years of Experience in Clinical Research

1. Prospective Randomized Clinical Study to Evaluate the Effect of DiabetEaze Powder in Nutritional Management of Pre-Diabetes and Type 2 Diabetes Mellitus during 2021. **CTRI/2021/04/032956**
2. Retrospective, cross sectional and prospective observational study to evaluate Orthoherb tablet through post marketing surveillance study during 2021. **CTRI/2021/07/034634.**
3. Retrospective, cross sectional and prospective observational study to evaluate Pankajakasthuri Breathe eazy granules and syrup through post marketing surveillance study during 2021. **CTRI/2021/07/034636.**
4. Retrospective, cross sectional and prospective observational study to evaluate Orthoherb oil through post marketing surveillance study during 2021. **CTRI/2021/07/034635.**
5. A prospective, interventional, single-arm clinical trial to evaluate the efficacy and safety of Ayurveda therapy protocol in the management of mild to moderate COVID-19 patients and its

post complications during 2021. **CTRI/2021/07/034937**.

6. Randomized controlled Single blinded prospective multi-centre clinical trial to investigate the safety and efficacy of ZingiVir-H as an adjuvant therapy in hospitalized adults diagnosed with coronavirus disease 2019, during 2020 (COVID-19). **CTRI/2020/04/024883**.
7. An open label single centre prospective observational study to evaluate the radiological patterns: post COVID-19 complications and clinical outcome resolutions of lungs and brain in COVID-19 confirmed patients treated with an antiviral drug ZingiVir-H during 2020. **CTRI/2020/11/029025**.
8. Randomized, double-blind, placebo controlled prospective multi-center trial to validate the safety and efficacy of an antiviral drug ZingiVir-H, in adults with asymptomatic, mild or moderate nCOVID-19 infection (COVID-19) during 2020. **CTRI/2020/05/025434**.
9. An open-label bioavailability and safety study on the single dose pharmacokinetics of the antiviral compound ZingiVir-H after oral administration in healthy males during 2020 (COVID-19). **CTRI/2020/07/026908**.
10. Salutory effect of ZingiVir- H in Jwara (Fever) or Agantuja Jwara (Viral fever) associated with Kasa-Swasa (Bronchitis and Acute respiratory tract infections) - A pilot clinical Study on human beings during 2019. Pilot study-Institutional clinical trial.
11. Clinical research experience in the protocol entitled "Red rice bran in the management of Type II Diabetes and hyperlipidemia- A clinical study on Kerala population" at SUCCOR HEALTH CARE (P) LTD during 2012-2013.
12. Clinical research experience in the protocol entitled "Assessment of prevalence of sexual side effects in psychiatric patients receiving psychotropic drugs and the quality of life assessment in terms of sexual satisfaction- a pilot study" at KMCT Medical College, Kozhikode during 2014.

Experiences in Pharmacology and Toxicology (Pre-clinical Research)

Completed studies

1. Dermal irritation test of Orthoherb cream in New Zealand white rabbits in 2021 at 'CARE KERALAM', Government of Kerala, Koratty, Trissur, Kerala. **(IAEC approval number: CKL/TOX/IAEC/2021-1/149)**.
2. Evaluation of anti-inflammatory and analgesic activity of Orthoherb cream in wistar albino rats in 2021 at 'CARE KERALAM', Government of Kerala, Koratty, Trissur, Kerala. **(IAEC approval number: CKL/TOX/IAEC/2021-2/158)**.
3. Acute dermal irritation study of a polyherbal anesthetic formulation in wistar albino rats in 2021 at 'CARE KERALAM', Government of Kerala, Koratty, Trissur, Kerala. **(IAEC approval number: CKL/TOX/IAEC/2021-2/159)**.
4. Evaluation of the local anesthetic activity of a polyherbal formulation in wistar albino rats in 2021 at 'CARE KERALAM', Government of Kerala, Koratty, Trissur, Kerala. **(IAEC approval**

number: CKL/TOX/IAEC/2021-2/159).

5. Repeated dose 28-day oral toxicity study of Pankajakasthuri Zingivir-H in Wistar rats in 2020 at Pankajakasthuri Herbal Research Foundation, Killy, Kattakada, Thiruvananthapuram, Kerala. **(IAEC approval number: PKHRF/IAEC/NOC/01/2020)**
6. A study report of repeated dose 28-day oral toxicity study of Nirapara Fresh Wash in wistar rats in 2017 at 'CARE KERALAM', Government of Kerala, Koratty, Trissur, Kerala. **(IAEC approval number: CKL/TOX/IAEC/2017-3/86)**
7. Evaluation of inhibitory effect of *Ceasalpinia bonduc* seed extract on testosterone induced benign prostatic hyperplasia in wistar rat in 2017 at 'CARE KERALAM', Government of Kerala, Koratty, Trissur, Kerala. **(IAEC approval number: CKL/TOX/IAEC/2017-3/89)**
8. Evaluation of hypocholesterolemic potential of *Artocarpus hirsutus* seed extract in wistar rats at 2017 at 'CARE KERALAM', Government of Kerala, Koratty, Trissur, Kerala. **(IAEC approval number: CKL/TOX/IAEC/2017-3/87).**
9. Evaluation of anti-diabetic activity of *Artocarpus hirsutus* seed extract in wistar rats at 2017 at 'CARE KERALAM', Government of Kerala, Koratty, Trissur, Kerala. **(IAEC approval number: CKL/TOX/IAEC/2017-3/88).**

Ongoing studies

1. *In-vivo* study to assess the anti-inflammatory effect of *Jalaukavacarana* (Leech therapy) in Wistar rats in in 2020 at Pankajakasthuri Herbal Research Foundation, Killy, Kattakada, Thiruvananthapuram, Kerala. **(IAEC approval number: PKHRF/IAEC/NOC/02/2020).**
2. *In-vivo* study to assess the thrombolytic effect of *Jalaukavacarana* (Leech therapy) in Wistar rat in 2020 at Pankajakasthuri Herbal Research Foundation, Killy, Kattakada, Thiruvananthapuram, Kerala. **(IAEC approval number: PKHRF/IAEC/NOC/03/2020).**
3. An *in-vivo* study to evaluate the efficacy of *Yavadagdha Mash* in *Dagdha Vrana* - second degree burns in 2021 at Pankajakasthuri Herbal Research Foundation, Killy, Kattakada, Thiruvananthapuram, Kerala. **(IAEC approval number: PKAMC/IAEC/NOC/01/2021).**
4. An experimental animal study to evaluate the anti-epileptic effect of *Mahachaitasa Ghrita* in in 2021 at Pankajakasthuri Herbal Research Foundation, Killy, Kattakada, Thiruvananthapuram, Kerala. **(IAEC approval number: PKAMC/IAEC/NOC/02/2021).**
5. An *in vivo* study to assess the effect of *Guduchi Triphala kwatha* with different *Prakshepa churnas* in the management of Obesity in 2021 at Pankajakasthuri Herbal Research Foundation, Killy, Kattakada, Thiruvananthapuram, Kerala **(IAEC approval number: PKAMC/IAEC/NOC/03/2021).**
6. An experimental study to evaluate the haemostatic effect of *panchavalkala* kashaya and *panchavalkala* aqueous extract in in 2021 at Pankajakasthuri Herbal Research Foundation, Killy, Kattakada, Thiruvananthapuram, Kerala. **(IAEC approval number: PKAMC/IAEC/NOC/04/2021).**

Publications in Various Reputed International/National Journals

1. **Shan Sasidharan**, Srinivasa Kumar KP, Bhaumik A, Kanti Das S, Hareendran Nair J (2022) Administration of *Caesalpinia bonduc* Seed Extracts Ameliorates Testosterone-Induced Benign Prostatic Hyperplasia (BPH) in Male Wistar Rats. *Res Rep Urol.* 26: 225-239.
2. **Shan Sasidharan**, Srinivasa Kumar KP, Kanti Das S, Hareendran Nair J (2022) LC-QTOF - MS/MS and GC-MS based phytochemical characterization of the seed extracts of *Caesalpinia bonduc*: a pharmaceutically ponderable medicinal plant with diverse biological activity. *International Journal of Green and Herbal Chemistry.* 11;218-244
3. Hareendran Nair J, Sreekumar GS, Sreejith Satheesan, Nisha MG, **Shan Sasidharan** (2022). A pilot clinical study to manifest the efficacy of Pankajakasthuri orthoherb cream/thermagel in the treatment of patients diagnosed with osteoarthritis. *Int J Complement Alt Med.* 15(1):20–26.
4. **Shan Sasidharan**, Srinivasa Kumar KP, Kanti Das S, Hareendran Nair J (2022) Benign Prostatic Hyperplasia (BPH) - A Comprehensive Analysis of the Malaise and Summarizing Possible Management Options through Phytotherapeutic Agents. *National Public Health Journal* 17 (22).
5. **Shan Sasidharan**, Srinivasa Kumar KP, Kanti Das S, Hareendran Nair J (2022). Preliminary Phytochemistry and High Performance Thin-Layer Chromatography Fingerprint Profiling of the Seed Extracts of *Caesalpinia Bonduc*: A Pharmaceutically Significant Medicinal Plant. *Organic & Medicinal Chem IJ* 11(4): OMCIJ.MS.ID.555817.
6. Hareendran Nair J, **Shan Sasidharan** (2022) The Role of In-vitro Cytotoxicity Assays to Confirm Non-toxicity Subsequent to the Detoxification Procedure of Mercuric Sulphide and Arsenic Trisulphide, Two Integral Metal Components Used in the Formulation of a Novel Herbo-mineral Antiviral Drug Targeted for COVID-19, ZingiVir-H. *New Horizons in Medicine and Medical Research* Vol. 5: 38-60.
7. Hareendran Nair J, **Shan Sasidharan** (2022) In-vitro Antiviral Activity of ZingiVir-H, a Novel Herbomineral Drug against Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). *J Virol Antivir Res* 11:2.
8. **Shan Sasidharan**, Srinivasa Kumar KP, Kanti Das S, Hareendran Nair J (2021). *Caesalpinia bonduc*: A Ubiquitous yet Remarkable Tropical Plant Owing Various Promising

Pharmacological and Medicinal Properties with Special References to the Seed. *Med Aromat Plants (Los Angeles)* 10: 394.

9. **Shan Sasidharan**, Srinivasa Kumar KP, Bhaumik A, Kanti Das S, Hareendran Nair J (2021). Botanical and pharmacognostic evaluation of *Caesalpinia bonduc* seed, a prevalent Indian traditional drug having vivid therapeutic prospects. *Journal of Pharmacognosy and Phytochemistry* 2021; 10(6): 297-304.
10. Hareendran Nair J, **Shan Sasidharan** (2021) Heavy Metal Toxicity in Ayurvedic Drug Formulated using *Tinospora cordifolia* (Giloy) – An Approach to Probe the Veracity Behind the Blanket Assertions. *Open Acc J of Toxicol.* 5(2): OAJT.MS.ID.555657.
11. Hareendran Nair J, **Shan Sasidharan** (2021) In-vivo studies to manifest the potent anti-inflammatory and analgesic effect of the topical formulation, Pankajakasthuri orthoherb cream/thermagel upon single application in wistar albino rats. *Pharmacy and Pharmacology International Journal* 9(5):201–208.
12. Hareendran Nair J, **Shan Sasidharan** (2021) Dermal irritation study of Pankajakasthuri orthoherb cream/thermagel, a potent polyherbal antiinflammatory and analgesic formulation for topical application in healthy New Zealand white rabbits. *Journal of Toxicology: Current Research* 5: 022.
13. Hareendran Nair J, **Shan Sasidharan** (2021) In-vitro Cytotoxicity Assessment of ZingiVir-H Tablets, a Novel Herbo-Mineral Antiviral Drug along with Purified Mercuric Sulphide and Arsenic Trisulphide used for its Preparation, and its Corresponding Empirical Data to Reinforce the Evaluation. *Drug Design.* 10:191.
14. Hareendran Nair J, Rajani A. Nayar, Sreekumar GS, Sheeja Chandran, Parvathy SP, Manesh Kumar KV, Lekshmi R, Sreejith Satheesan, **Shan Sasidharan** (2021). A pilot clinical study to evaluate the safety and efficacy of ZingiVir-H, herbo-mineral drug in patients with viral fever. *Curr Res Complement Altern Med* 5: 144.
15. Hareendran Nair J, Kasthuri Nair A, Arun Pratap, Arjun Chand CP, Aswathy RS, Nisha MG, **Shan Sasidharan** (2021). Prevention & management of viral fevers and respiratory tract infections – an Ayurvedic approach. *Int J Ayu Pharm Chem* 15(2): 14-28.
16. Hareendran Nair J, Kaveri Nair A, Aravind R, Sreenu S, Nishanth Kumar S, **Shan Sasidharan** (2021). The world under lockdown: A brief sketch of three emerging deadly Coronaviruses in last two decades with special reference to Severe Acute Respiratory Syndrome -Coronavirus-

2 (SARS-CoV-2; Coronavirus Disease-19). International Journal of Virology and Infectious diseases, 1(6): 1-19.

17. Hareendran Nair J and **Shan Sasidharan** (2021). Subacute Oral Toxicity Studies of ZingiVir-H: A Herbomineral Antiviral Drug in Wistar Rats. *Toxicology: Open Access* 2021, 7:3.
18. Hareendran Nair J, Sajna SA, Monisha M, Sandhu G. Joseph, Vijaya R, Aiswarya P, **Shan Sasidharan** (2021). A critical review of Jwarahara Yogas of Ayurvedic classics- A paradigm to reverse pharmacology. *International Journal of Research in Ayurveda and Pharmacy (IJRAP)*, 12(1).
19. Suma VK, Revikumar KG and **Shan Sasidharan** (2021). Phytochemical analysis and antioxidant activity of seed extracts of *Artocarpus hirsutus*: An in vitro study. *Journal of Pharmacognosy and Phytochemistry*; 10(1): 1030-1034.
20. Suma VK, Revikumar KG and **Shan Sasidharan** (2020). Pharmacognostical studies on seeds of *Artocarpus hirsutus*. *World Journal of Pharmaceutical Research*, 9, 1452-1463.
21. **Shan Sasidharan** (2019). Efficacy study report of Nirapara fresh wash in fishes and prawns to remove the antibiotics, formaldehyde and heavy metal traces. *International Journal of Scientific Research*, 8 (3), 38-40.
22. **Shan Sasidharan**, Sithara MS (2018). A study report of repeated dose 28-day oral toxicity study of Nirapara fresh wash in wistar rats. *International journal of scientific research*, 7(4), 2277 – 8179.
23. **Shan Sasidharan** (2017). A study on physical, chemical, and antioxidant properties of essential oil separated from fresh berries of *Cinnamomum riparium* by steam distillation technique. *International journal of pharmaceutical science and research*, IJPSR, 8(12): 5252-5256.
24. **Shan Sasidharan**, Jisha Sara John, Bhagya Prasad, Anil Babu, B Seethadevi (2015). A study on amlodipine induced gingival hyperplasia, *International Journal of Bioassays*, 4 (01), 3678-3679.
25. **Shan Sasidharan**, Akhila Sivadas (2014). Congenital intestinally mphangiectasia: a case study. *World journal of pharmacy and pharmaceutical sciences*, 3, 253-256.

26. **Shan Sasidharan**, Suresh Kumar PN, Anil Babu, Seethadevi B, Raju R (2014). Assessment of prevalence of sexual side effects in psychiatric patients receiving psychotropic drugs and the quality-of-life assessment in terms of sexual satisfaction-a pilot study. IJMPS, 4 (5), 77-84.

27. **Shan Sasidharan**, Pyarry Joseph, Junise (2014). Formulation and evaluation of fairness serum using polyherbal extracts. Int J Pharm 2014; 4(3): 105-112.

Professional experiences in various renowned committees approved by Govt. of India

Period	Designation	Institution/Company
2019 December- till dated	Member Secretary (Institutional Animal Ethics Committee)	Pankajakasthuri Herbal Research Foundation Pankajakasthuri Ayurveda Medical College campus, Killy, Kattakada, Thiruvananthapuram, Kerala, India.
2020 March- till dated	Pharmacologist (Independent Ethics Committee, DHR, Govt. of India)	Pankajakasthuri Herbal Research Foundation Pankajakasthuri Ayurveda Medical College campus, Killy, Kattakada, Thiruvananthapuram, Kerala, India.
2021 April- till dated	Chairman/Biological Scientist (Institutional Animal Ethics Committee)	CARe KERALAM, Koratty, Trissur, Kerala, India.

Training Certificates

1. Attended an online training course on Sustainability in Cosmetics on 2021 conducted by SpecialChem S.A, Paris, France
2. Attended two-day training course on GCP and Ethics in human research on 19th & 20th March 2020 on the following domains conducted by the Training and Development unit of Institute of Biology and Clinical Research (ICBR), Thiruvananthapuram, Kerala.
3. Attended training and orientation course to ethical consideration in biomedical research and ethical review process conducted by Indian Institute of Public Health with the support of Indian Council for Medical Research, Gandhinagar, Ahmadabad, Gujarat during 2013.

4. Attended WHO Dissemination workshop for on clinical trial registration conducted by National Institute of Medical Statistics, ICMR & Administer Clinical Trail Registry-India (CTRI) at Madurai, Tamil Nadu during 2013.
-

Awards

1. INSC Young Researcher Award -2022
 2. Best paper award -2014.
 3. Nominee for Young Scientist Award (International) 2002.
-

Reviewing experience in peer reviewed journals

1. Advances in Research.
 2. Journal of Pharmaceutical Research International
 3. International Journal of Biochemistry Research and Review
 4. Current Journal of Applied Science and Technology
-

Registrations in the State and National bodies

1. Kerala State Pharmacy Council (KSPC)
 2. The International Pharmaceutical Federation (FIP)
 3. International Society for Pharmacoeconomics and Outcomes Research (ISPOR)
 4. The Alliance of International Aromatherapists (AIA)
 5. American Orchid Society (AOC)
-

Declaration

The above-mentioned information is correct and true and nothing has been concealed.

Dr. Shan Sasidharan