

CURRICULUM VITAE

CONTACT ADDRESS:

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Dr. SREEJA P S



CAREER OBJECTIVE

To pursue a challenging career as Teacher in which I could effectively utilize my skills and college level experience towards furthering the objectives and growth of the organization and students.

ACADEMIC CHRONICLE

Year of Passing	Examination Passed	Specialization	School / College	Board / University	% of Marks
2002	SSLC	General	GMMGHSS, Palakkad	Kerala State Board	78.66
2004	Plus Two	Biology Science	GMMGHSS, Palakkad	Kerala State Board	64
2007	B.Sc.	Botany	Mercy College, Palakkad	Calicut University	84.7
2009	M.Sc.	Plant Science	Bharathiar University, Coimbatore	Bharathiar University	82.38
2009	PG Diploma	Herbal Science	Bharathiar University, Coimbatore	Bharathiar University	78.75
2010	M. Phil	Botany (Genetics & Plant breeding)	Bharathiar University, Coimbatore	Bharathiar University	63.66
2019	Ph.D.	Botany (Bioprospection of medicinal plants)	Bharathiar University, Coimbatore	Bharathiar University	Highly commented

M.PHIL PROJECT (specialization on genetics and plant breeding)

“Giemsa C Banding Studies in Rye and Triticale”.

PH. D. PROJECT (Specialization on bioprospection of medicinal plants)

“Evaluation of anti-inflammatory and anti-ulcer properties of *Sphenodesme involucrata* var. *paniculata* (C.B. Clarke) Munir – A potent medicinal plant from Western Ghats”.

JOB EXPERIENCE – 2.7 years

- Worked as Guest lecturer in Botany Department, Victoria college, Palakkad from 2019 June 24th to 2019 December 2nd
- Worked as Guest lecturer in Botany Department, Sree Narayana college, Alathur, Palakkad, from 2021 February 8th to 2021 March 31st
- Worked as Guest lecturer in Botany Department, NSS college, Nemmara, Palakkad, from 2021 June 25th to 2022 March 31st
- Working as Guest lecturer in Botany Department, NSS college, Nemmara, Palakkad, from 2022 June 17th to 2023 March 31st.

RESEARCH EXPERIENCE

Laboratory Techniques Known

- Pharmacological evaluations (Animal Studies using mouse and rat)

Biochemical Studies

- Biochemical assays including *in vitro* & *in vivo* antioxidant assays
- Thin layer chromatography
- Column Chromatography

BOOK PUBLISHED

- Karuppusamy Arunachalam and **Sreeja Puthanpura Sasidharan**, 2021. Bioassays in Experimental and Preclinical Pharmacology. Springer Nature, International Publishing, New York, USA. ISBN: 978-1-0716-1233-0, DOI: 10.1007/978-1-0716-1233-0.

- Karuppusamy Arunachalam, Xuefei Yang and **Sreeja Puthanpura Sasidharan, 2022.** Natural Product Experiments in Drug Discovery. Springer Nature, International Publishing, New York, USA. DOI: <https://doi.org/10.1007/978-1-0716-2683-2>. ISBN 978-1-0716-2682-5. ISBN 978-1-0716-2683-2(eBook)
- Karuppusamy Arunachalam, Xuefei Yang and **Sreeja Puthanpura Sasidharan, 2023.** Bioprospecting of Tropical Medicinal Plants. Springer Nature, International Publishing, New York, USA. ISBN 978-3031287794 (eBook) (Publish on 11/06/2023).

PAPER PUBLICATION

1. Saikumar Sathyanarayanan, **Puthanpura Sasidharan Sreeja**, Karuppusamy Arunachalam and Thangaraj Parimelazhagan. Toxicity and Antiulcer Properties of *Ipomoea wightii* (Wall.) Choisy Leaves: An *In Vivo* Approach Using Wistar Albino Rats. Evidence-Based Complementary and Alternative Medicine. Volume 2022, Article ID 4328571, 14 pages. <https://doi.org/10.1155/2022/4328571>. IF: 2.65
2. Arunachalam K, **Sreeja PS** and Yang X (2022) The Antioxidant Properties of Mushroom Polysaccharides can Potentially Mitigate Oxidative Stress, Beta-Cell Dysfunction and Insulin Resistance. *Frontier Pharmacology* 13:874474. doi: 10.3389/fphar.2022.874474. IF: 5.98
3. Karuppusamy Arunachalam*, **Sreeja Puthanpura Sasidharan**, Xuefei Yang*. 2022. A concise review of mushrooms antiviral and immunomodulatory properties that may combat against COVID-19. *Food Chemistry Advances*. <https://doi.org/10.1016/j.focha.2022.100023>
4. Dhivya Sivaraj, Ray J. Butcher, Jerry P. Jasinski, Saikumar Sathyanarayanan, Revathi Ponnusamy, **Sreeja Puthanpura Sasidharan**, Kasipandi Muniyandi, Parimelazhagan Thangaraj*, Karuppusamy Arunachalam*. (2022)., Antioxidant and Antivenom Potential of an Essential Oil, 4-(2-Oxo-propyl)-cyclopentane-1,3-dione, and Allantoin Derived from the Polyherbal Combination of *Aristolochia indica* L. and *Piper nigrum* L., Evidence-Based Complementary and Alternative Medicine, vol. 2022, Article ID 4797884, 20 pages, 2022. <https://doi.org/10.1155/2022/4797884>. IF: 2.65
5. Muniyandi Kasipandi, A. S. Vrindarani, **Puthanpura Sasidharan Sreeja**, Suman Thamburaj, Sathyanarayanan Saikumar, Sivaraj Dhivya, Thangaraj Parimelazhagan. Effect of in vitro simulated digestion on sugar content and biological activities of *Zehneria maysorensis* (Wight & Arn.) Arn. Leaf polysaccharides. *Journal of Food*

Measurement and Characterization. (2019) PP. 1765-1772 (Springer) **IF: 3.006**
doi.org/10.1007/s11694-019-00094-8

6. Muniyandi Kasipandi, Ayyapan Manikandan, **Puthanpura Sasidharan Sreeja**, Thamburaj Suman, Sathyanarayanan Saikumar, Sivaraj Dhivya, Thangaraj Parimelazhagan. Effects of invitro simulated gastrointestinal digestion on the antioxidant, α glucosidase and α -amylase inhibitory activities of water-soluble polysaccharides from *Opilia amentacea* roxb fruit. **LWT - Food Science and Technology** 111 (2019) 774–781. **IF: 6.056.** (Elsevier). doi.org/10.1016/j.lwt.2019.05.079
7. **Sreeja Puthanpura Sasidharan**, Karuppusamy Arunachalam, Sathyanarayanan Saikumar, Muniyandi Kasipandi, Dhivya Sivaraj, Rajan Murugan, and Thangaraj Parimelazhagan. "Gastroprotective effect and mode of action of methanol extract of *Sphenodesme involucrata* var. *paniculata* (CB Clarke) Munir (Lamiaceae) leaves on experimental gastric ulcer models." **Biomedicine & Pharmacotherapy** 97 (2018): 1109-1118. (Elsevier) **IF: 7.419.** doi.org/10.1016/j.biopha.2017.11.030
8. **Puthanpura Sasidharan Sreeja**, Karuppusamy Arunachalam, Domingos Tabajara de Oliveira Martins, Joaquim Corsino da Silva Lima, Sikiru Olaitan Balogun, Eduarda Pavan, Sathyanarayanan Saikumar, Sivaraj Dhivya, Muniyandi Kasipandi, Thangaraj Parimelazhagan. *Sphenodesme involucrata* var. *paniculata* (C.B. Clarke) Munir.: Chemical characterization, anti-nociceptive and anti-inflammatory activities of methanol extract of leaves. **Journal of Ethnopharmacology** 225 (2018): 71–80. (Elsevier) **IF: 5.195.** doi.org/10.1016/j.jep.2018.06.035
9. Dhivya Sivaraj, Saravanan Shanmugam, Murugan Rajan, **Sreeja Puthanpura Sasidharan**, Saikumar Sathyanarayanan, Kasipandi Muniyandi, Parimelazhagan Thangaraj, and Adriano Antunes de Souza Araújo. "Evaluation of *Aristolochia indica* L. and *Piper nigrum* L. methanol extract against centipede *Scolopendra moristans* L. using Wistar albino rats and screening of bioactive compounds by high pressure liquid chromatography: a polyherbal formulation." **Biomedicine & Pharmacotherapy**. 97 (2018): 1603-1612. (Elsevier) **IF: 7.419.** doi.org/10.1016/j.biopha.2017.11.114
10. **Puthanpura Sasidharan Sreeja**, Karuppusamy Arunachalam, Ramakoti Reddy V., Sathyanarayanan Saikumar, Muniyandi Kasipandi, Sivaraj Dhivya. 2017. The effect of Parthenium extract on cells and chromosomes in *Allium cepa* L. **Devagiri Journal of Science**, 3(1): 44-62 (ISSN:2454-2091).

11. Pavithra Moorthy, Murugan Rajan, Saikumar Sathyanarayanan, Kasipandi Muniyandi, Dhivya Sivaraj, **Sreeja Puthanpura Sasidharan** & Parimelazhagan Thangaraj. "Effect of different cooking methods of Hibiscus surratensis L. leaf vegetable on nutritional, antinutritional composition, and antioxidant activities". *Journal of Culinary Science & Technology* (2018): PP. 13-28. (Taylor & Francis) **IF.: 0.71.** 10.1080/15428052.2018.1502110. ISSN: 1542-8052.
12. Saikumar Sathyanarayanan, Kasipandi Muniyandi, Elizabeth George, Dhivya Sivaraj, **Sreeja Puthanpura Sasidharan**, and Parimelazhagan Thangaraj. "Chemical profiling of Pterolobium hexapetalum leaves by HPLC analysis and its productive wound healing activities in rats." *Biomedicine & Pharmacotherapy* 95 (2017): 287-297. (Elsevier) **IF: 7.419.** dx.doi.org/10.1016/j.biopha.2017.08.062
13. K. Arunachalam, B. Shanmuganathan, **P. S. Sreeja**, and T. Parimelazhagan. 2015. Phytosynthesis of silver nanoparticles using the leaves extract of *Ficus talboti* king and evaluation of antioxidant and antibacterial activities. *Environmental Science and Pollution Research*. 22(2) 18066-18075. (Springer) **IF.: 5.19.** DOI 10.1007/s11356-015-4992-7
14. **PS Sreeja*** and VRK Reddy. Dec 2013. Identification of Rye chromosome substitutions in Triticale and its relation with kernel characters and seed setting through Giemsa C-banding technique. *Asian Pacific Journal of Reproduction*. (Elsevier), Vol 2, No. 4, P253-336. **IP. 0.820.** Doi: 10.1016/S2305-0500(13)60164-5

CUMULATIVE IMPACT FACTOR OF ALL PUBLICATIONS: 54.514

NO. OF CITATIONS: 154 (Google scholar:

<https://scholar.google.com/citations?user=TPaidBAAAAAJ&hl=en>)

BOOK CHAPTERS

1. **Puthanpura Sasidharan Sreeja**, Karuppusamy Arunachalam and Parimelazhagan Thangaraj. "Schefflera Genus (Araliaceae) A Review of Its Botanical Description, Ethnobotanical Uses, Phytochemistry, Pharmacology and Toxicology." *Medicinal Plants: Promising Future for Health and New Drugs* (2018): 73. Edited By [Parimelazhagan Thangaraj](#). CRC Press Taylor & Francis Group 6000 Broken Sound Parkway NW, Suite 300 Boca Raton, FL 33487-2742, pp.101-110, ISBN 9780815370529.

2. Karuppusamy Arunachalam, **Puthanpura Sasidharan Sreeja**, Domingos Tabajara de Oliveira Martins and Parimelazhagan Thangaraj. “Antidiabetic Activity by the In Vitro α -Amylase and α -Glucosidase Inhibitory Action of Indian Ayurvedic Medicinal Plants *Ficus amplissima* Smith.” *Medicinal Plants: Promising Future for Health and New Drugs* (2018): 73. Edited By [Parimelazhagan Thangaraj](#). CRC Press Taylor & Francis Group 6000 Broken Sound Parkway NW, Suite 300 Boca Raton, FL 33487-2742, pp.101-110, ISBN 9780815370529.
3. **Sreeja P.S**, Arunachalam K and Thangaraj Parimelazhagan. Evaluation of Anti-ulcer Potential of *Sphenodesme involucrata* var. *paniculata* (C.B. Clarke) Munir Leaves on Various Gastric Aggressive Factors. *Phytomedicine: Research and Development* (2020) /editor, Thangaraj Parimelazhagan. CRC Press Taylor & Francis Group 6000 Broken Sound Parkway NW, Suite 300 Boca Raton, FL 33487-2742, pp.203-212, ISBN 9780367857592
4. Arunachalam, K., **Sasidharan, Sreeja Puthanpura.**, Parimelazhagan, T., Yang, X. (2023). *Ficus talboti* King: Antinociceptive and Anti-inflammatory Properties of Methanol Extract of Stem Bark. In: Arunachalam, K., Yang, X., Puthanpura Sasidharan, S. (eds) *Natural Product Experiments in Drug Discovery*. Springer Protocols Handbooks. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-2683-2_31. Pages 521-541. Print ISBN: 978-1-0716-2682-5. Online ISBN : 978-1-0716-2683-2

WEBINAR/WORKSHOP CO-ORDINATED

- International webinar on “Wetland conservation” on February 5, 2022 at Department of Botany, NSS College, Nemmara, Palakkad (Co-ordinator)
- National workshop on “Awareness of Intellectual Property Rights” on December 18, 2021 at Department of Botany, NSS College, Nemmara, Palakkad in association with The State University of Mato Grosso, Brazil (Organizing committee member)

INVITED SPEAKER

- Invited as a resource person in a National Webinar series **Nymphaea 2021** on 12th March 2021, on the topic “Ethnobotany”, at Department of Botany, Sree Narayana College, Alathur, Palakkad, Kerala.

CONFERENCE PRESENTATION AND PARTICIPATION

- ✓ **Presented paper** (Evaluation of anti-ulcer potential of *Sphenodesme involucrata* var. *paniculata* (C.B. Clarke) Munir leaves on various gastric aggressive factors) in “**International conference on phytomedicine**”, 2018 organized by Department of Botany, Bharathiar University, Coimbatore on 29th to 31st August, 2018.
- ✓ **Oral presentation** of paper (Antioxidant activity and in vitro inhibitory potential against key enzymes relevant for hyperglycaemia of Indian folklore medicinal plant *Ficus amplissima* smith) in **International conference on “Converging biotechnological innovations for health, food and environmental welfare”** organized by Department of Biotechnology, School of Biotechnology and Health Sciences, Karunya University, Coimbatore on 2nd to 4th December 2015.
- ✓ **Participated** on National level workshop on the topic “**Organic terrace garden aspects and prospects**”, organized by Department of Botany, Bharathiar University, Coimbatore on 20th December, 2017.
- ✓ **Participated** on 10th NABS (National academy of biological sciences) national conference on “**Recent trends in life sciences: Research, practices and application for sustainable development**”, held during 7-8th September, 2017 organized by Department of Botany, Bharathiar University, Coimbatore
- ✓ **Participated** in the workshop on “**Think tank initiation for IPR policy implementation**” organized by the intellectual property rights cell, Bharathiar University, Coimbatore during 26-27th July, 2017.
- ✓ **Participated** on **National seminar on biodiversity conservation and sustainable utilization** Conducted by Department of Botany, Bharathiar University on 20-21st March, 2017.
- ✓ **Paper presented** in National seminar on “**Recent trends in the conservation and utilization of underutilized wild edible plants, 2009**”, Department of Botany, Bharathiar University, Coimbatore.
- ✓ Workshop on **Intellectual Property Rights** conducted by Botany Department, Bharathiar University during 11-12 August, 2011 has **attended**.

EXTRA SKILLS

Computer proficiency : MS Office

Type writing : English - lower

PERSONAL PROFILE

DATE OF BIRTH	:	06-06-1986
GENDER	:	Female
NATIONALITY	:	Indian
FATHER'S NAME	:	K K Sasidharan
MOTHER'S NAME	:	K P Vimalakumari
MARITAL STATUS	:	Married
SPOUSE'S NAME	:	K Arunachalam
LANGUAGES KNOWN	:	Malayalam, English, Tamil

REFERENCES

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