

CURRICULUM VITAE

Dr. M Sreepriya

M.Sc, M.Phil, Ph.D

Professor in Biotechnology
Department of Microbiology
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Designation: Professor

Department of Microbiology, Biotechnology & Food Technology
Bangalore University, Jnana Bharathi Campus, Bangalore – 560 056

Area of research specialization: Experimental Therapeutics

Topic of research interest: Oncology & Osteoporosis

Academic Qualifications :

S.No	Degree	Subject	Year of passing	Name of the University	Class secured
1	Ph.D	Biochemistry	Nov'2001	University of Madras	Highly commended
2	M.Phil	Biochemistry	Aug'1997	University of Madras	First Class
3	M.Sc	Biochemistry	Apr'1996	University of Madras	First Class
4	B.Sc	Biochemistry	Apr'1994	University of Madras	First Class with Distinction

Summary of employment

S.No	Position	Place of employment	Duration of employment
1.	Professor	Department of Microbiology and Biotechnology, Bangalore University, Bangalore	June 15 th 2022-till date
2.	Associate Professor (Biotechnology)	Department of Microbiology and Biotechnology Bangalore University, Bangalore	2019 - 14 th June 2022

3.	Assistant Professor (Biotechnology)	Department of Microbiology and Biotechnology Bangalore University, Bangalore	2007 - 2019
4.	Post doctoral Research Associate (CSIR)	Department of Microbiology and Biotechnology Bangalore University, Bangalore	2002-2007
5.	Post doctoral Pro- ject Assistant (DBT)	National Institute of Immunology, New Delhi	2001 – 2002
6.	SRF (CSIR)	Department of Biochemistry University of Madras Guindy Campus, Chennai	1999 – 2001

Post doctoral research experience: 6 years

Post doctoral programme 1:

Institution: National Institute of Immunology, New Delhi

Laboratory: Vaccine Production and Quality Control Laboratory

Research Supervisor: Dr. Parmeshwari Sahai

Duration: 2001-2002

Funding agency: DBT, Govt of India

Project title: Exploring the immunomodulating potential of NII-70 in the *ex-vitro* propagation of human bone marrow cells

Post doctoral programme 2:

Institution: Department of Microbiology, Bangalore University

Duration: 2002- June 2007

Research Supervisor: Prof. Geetha Bali

Funding agency: CSIR, Govt. of India

Project title: Anti-proliferative effects of embelin-an *in vitro* and *in vivo* study.

Professional experience

(a) Teaching (University teaching -PG - 16 years full time, five years-part time teaching in the Department of Microbiology, Bangalore University, in addition to research responsibilities as RA)

Subjects handled: Genetic engineering, Recombinant DNA technology, Molecular Biology, Biochemistry, Immunology& Immunotechnology, Environmental Biotechnology, Animal Biotechnology and practicals in Genetic engineering, Molecular Biology , Immunology, Biochemistry, Medical Biotechnology and Bioprocess engineering.

(b) Research experience : (24 years)

46 international and national Publications in peer reviewed scientific journals with high impact factor. Total h index 14.

Professional training underwent relevant to the subject

(i) Defense Research and Development Organization - Defense Institute of Physiology and Allied Sciences, New Delhi (Mar '00 to April '00)

Two months rigorous training in the culturing of immune cells like lymphocytes and macrophages, evaluating herbal drugs with regard to antioxidant and immunomodulation properties, studies on apoptosis and DNA fragmentation, both under *in vivo* and *in vitro* conditions.

(ii) Cancer Institute (WIA) –Regional Cancer Center, Adyar, Chennai (Feb '01 – Mar '01)

One month training course as an observer in the Department of Molecular Oncology for techniques such as genomic DNA isolation, PCR, Southern and Northern blot, RNA isolation, RT PCR, DNA sequencing, Cloning, transformation, Plasmid DNA isolation and immunohistochemistry.

(iii) National Institute of Immunology, New Delhi. (Nov '01)

Underwent one day training course in the handling of radioactive substances, aspects of radio safety and proper disposal of radioactive substances.

(iv) King Institute of Preventive Medicine, Guindy, Chennai. (Aug '04)

Participated in the cell culture workshop and underwent one week hands on training in the culturing of cells, Maintenance of cell lines, Preservation and revival of cells, In vitro drug cytotoxicity assays, Antiviral assays, Estimation of TCID 50 of viruses, Immunofluorescence assay, Haemagglutination, Haemagglutination inhibition test and good laboratory practices

(v) National Institute of Mental Health and Neurosciences (NIMHANS): Six months rigorous training in the Department of Genetics, NIMHANS, Bangalore on cytogenetic analysis including tests for chromosomal aberrations, sister chromatid exchange, micronuclei assay and antimutagenicity testing (2006-2007).

(vi) National center for Biological Sciences/Centre for cellular and molecular platforms (C-CAMP): Short term training programme on “*Basic training in flow cytometry*” during **July 2012.**

Sl. No	Period (From - to)	Position	Institution	Project Title
1	1996-1997	M.Phil scholar	Department of Bio-chemistry University of Madras, Chennai.	Cardioprotective effects of L-arginine against isoproterenol-induced myocardial infarction in rats.
1	1999-2001	SRF	Department of Bio-chemistry University of Madras, Chennai.	Hepatoprotective effects of <i>Indigofera tinctoria</i> against D-Galactosamine / Lipopolysaccharide –induced acute experimental hepatitis in rats.

2	2001-2002	Post doctoral project associate	National Institute of Immunology, New Delhi.	Exploring the immuno modulating potential of NII-70 including its role in the ex-vitro propagation of human bone marrow cells.
3	2002-2007	Post doctoral research associate	Department of Microbiology and Biotechnology, Bangalore University, Bangalore.	Antiproliferative effects of Embelin and Curcumin-A comparative in vivo and in vitro study.
4	2007-2019	Assistant Professor, Principal Investigator (funded research projects) Department of Microbiology and Biotechnology, Bangalore University, Bangalore		
<p><u>List of Research Projects handled/ Completed/Ongoing</u></p> <p>1) <i>Osteoblast proliferative potential of a unique herbal drug – An in vitro study</i> (Funded by National Innovation Foundation-NIF(an autonomous body of the DST- Govt of India, Ahmedabad)- Funding received- Rs 1,15,511 -Project completed (Period of project 2007-2010)</p> <p>2) <i>Anti-osteoporotic effects of Tinospora cordifolia- Investigations on in vitro osteogenesis, bone remodeling and modulation of osteocalcin gene expression</i> (Funded by University Grants Commission –UGC, GOI).Funding received Rs – 11,13,000/-. Project completed (Period of project 2009-2012)</p> <p>3) <i>Anti-invasive and anti-proliferative effects of embelin against invasive human carcinoma cell lines. In vitro studies on the role of apoptosis and cell cycle arrest</i> (Funded by Department of Science and Technology-DST under the fast track scheme for young scientists, GOI). Funding received Rs 16,98,000/-. Project Completed (Period of project 2010-2013)</p> <p>4) <i>In vitro studies on the osteoblast proliferative potential of four herbal drugs.</i> (Funded by National Innovation Foundation [an autonomous body of the DST-Govt of India], Ahmedabad, India). Funding received- 5,00,000. Project Completed (Period of project 2011-2014)</p> <p>5) Exploring the anti-osteoporotic effects of herbal drugs on in vitro model systems-Investigations on osteoblastic proliferation and osteoclastic resorption(Funded by National Innovation Foundation [an autonomous body of the DST-Govt of India], Ahmedabad,India). Funding received- RS 2,50,000/- Project Completed (Period of project 2013-2016)</p> <p>6) <i>Phytoestrogens as selective estrogen receptor modulators (SERM) in the prevention and management of postmenopausal osteoporosis in animals- An alternative approach to hormone replacement therapy(HRT)-</i> (Funded by the Department of Science and Technology- WOS-A Scheme, Principal Investigator-Dr.Sowmya Kumar; Scientist mentor- Dr.M.Sreepriya). Funding received- Rs 16,38,000/- Project Completed (Period of project 2013-2016)</p> <p>7) <i>Selective Estrogen receptor modulators in osteoporosis associated with breast cancer and bone remodeling; Role of RANKL-induced autophagy and Nrf2 signaling pathways</i> (Dr.S.Kothari Post doctoral fellowship awarded by the UGC,</p>				

		<p>Govt of India to Dr.Soumya.S.Krishnan. Research guide: Dr.M.Sreepriya. Period of sanction May 2018-2021, Project completed)</p> <p>8) Synergistic influence of micronutrients in the mitigation of hyperimmune response, inflammation and cytokine storm in activated macrophages and human lung cells-Relevance in the management of Covid 19 (Intramural research project funded by Bangalore University, Bangalore. Funding sanctioned-2,00,000, Project ongoing (Period of project 2021-2023)</p>
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Membership in academic bodies/Committees- Past and Present

- **DBT-Nominee**, Institutional Biosafety Committee (IBSC), M/s Natural Remedies, Bangalore. (2015-2018)
- **Member, Faculty of Science**, Bangalore University, Bangalore.
- **BOE-Chairman**, Biotechnology (PG), Bangalore University, Bangalore (2022-23).
- **BOE-Chairman**, Microbiology (PG), Bengaluru City University, Bangalore (2020-2021).
- **Member-BOS** in Biotechnology & Microbiology, Bangalore University, JB Campus.
- **Member-BOS** in Biological Science, Bangalore University, JB Campus, Bangalore
- **Member-BOE** in Biotechnology, Bengaluru City University, Bangalore
- **Member-BOE** in Biological Sciences, Bangalore University, Bangalore
- **Member-BOE** in Life Sciences, Bangalore University, Bangalore
- **Member-BOE** in Microbiology, University of Mysore, Mysore (2022-2023).
- **Member-BOE** in Biotechnology (PG), Jain University, Bangalore.
- **Member-BOE** (Pre-Ph.D Exams-Biotechnology), Jain University, Bangalore
- **Member-BOE** in Biotechnology, Maharani Lakshmi Ammani College, Bangalore.
- **Member-Doctoral Committee**, VIT University, Vellore
- **Member-Bangalore University Flying Squad**, MBA/MCA exams/M.SC/MA exams.

Membership of Professional bodies

1. Life Member, Society for Biological Chemists.
2. Life Member, Indian Science Congress Association

Research guidance for Ph.D/PDF students:

- ❖ *Seven* students awarded Ph.D degree.
- ❖ One student completed *post doctoral fellowship* under DSK-PDF scheme(UGC)
- ❖ Three students currently pursuing Ph.D degree.

Awards/Recognition and fellowships received for Research work

- ❖ Guest Editor, Journal of Experimental Biology and Agricultural Sciences (Journal ranked by Thomson Reuters), September 2016 (Special Issue) .
- ❖ Lead the student's team which won the “**Best Innovative Project Proposal Award**” in a national level competition conducted by the National Innovation Foundation, India during October 2007.
- ❖ Biography selected for publication in the 2009 edition of the prestigious “**MARQUIS WHO'S WHO IN THE WORLD**”.
- ❖ Awarded **Senior Research Associateship** (Scientist's pool scheme) by the Council of Scientific and Industrial Research (**CSIR**)- 2007.
- ❖ Awarded **Post-doctoral Research Associateship** by the Council of Scientific and Industrial Research (CSIR). (Oct'02 to June'07)
- ❖ Awarded **Post-doctoral project associateship** by National Institute of Immunology, Department of Biotechnology(DBT) (July'01 – Jan'02)
- ❖ Awarded **Senior Research Fellowship** by the Council of Scientific and Industrial Research (CSIR). (July'99-June'01)
- ❖ Awarded **Junior Research Fellowship** by the Lady Tata Memorial Trust, Mumbai. (June'97 to June'99)
- ❖ Reviewer for many scientific journals of international repute.

List of Books/Book Chapters Published: 06

1. Sowmya Kumar and **Sreepriya M.** *Isoflavones as dietary phytoestrogens in the management of postmenopausal osteoporosis.* In: Recent advances in the Molecular Mechanism of Flavonoids, Pandiamadevi K (Ed), 2017, **Studium Press**, New Delhi, India. PP 361-483. ISBN No: 13: 9789385046216.
2. Syamala Soumyakrishnan, Rashmi Nagesh, Sujatha Peela **and Meenakshisundaram Sreepriya .** *Epigenetic biomarkers for the detection of Gastrointestinal cancers..* In: Series: Diagnostics and Therapeutic Advances in GI Malignancies- Novel Therapeutic Approaches for Gastrointestinal Malignancies. Nagaraju SP and Peela S (Eds), **Springer Nature**, USA. 202; Chapter 5: PP 59-82.
3. Syamala Soumyakrishnan, **Sreepriya M**, and Sudhandiran G. *Soy isoflavones, Mitochondria and Cell fate.* In: Mitochondrial Physiology and Vegetal Molecules. Series: Mitochondria in Health and Disease. *Marcos de Oliveira* (Editor), **Elsevier Publications**, 2021: Chapter 29, PP 625-643.

4. Sumalatha KR, Syamala Soumyakrishnan, and Meenakshisundaram Sreepriya. *The Triad of Estrogen, Estrogen receptors and Colon cancer*. In: Colon Cancer Diagnosis and Therapy. Series: Diagnostics and Therapeutic Advances in GI Malignancies- Nagaraju SP and Peela S (Eds), **Springer Nature**, USA, 2021, Chapter 3: PP 41-68.
5. Syamala Soumyakrishnan, Mohan Gowda CH, Uma S, Anilkumar M, Sujatha P and Sreepriya M. *Influence of Endoplasmic Reticulum Stress and Unfolded Protein Response in the onset and progression of hepatocellular carcinoma*. Theranostics and Precision Medicine for the management of hepatocellular carcinoma Biology and Pathophysiology. Editors: Ganji Purnachandra Nagaraju and Sujatha Peela. **Elsevier Publications**, February 2022, Volume 1, Chapter 15, PP 219-242.
6. Syamala Soumyakrishnan, Sreepriya M and Sudhandiran G. *Role of Forkhead Box Proteins in regulating Epithelial-Mesenchymal transition in Breast cancer*. In Press. Handbook of Oxidative Stress in Cancer.; Therapeutic aspects. Editor: S.Chakraborti , **Springer Nature**, Singapore, 2022, PP 3543- 3561.

List of Research Publications

Total no of publications: 46; h index-14

1. Ibrahim I, Syamala S, Ayariga JA, Xu J, Robertson BK, Meenakshisundaram S, Ajayi OS. Modulatory Effect of Gut Microbiota on the Gut-Brain, Gut-Bone Axes, and the Impact of Cannabinoids. *Metabolites*, 2022 ;12(12):1247. doi:10.3390/metabo12121247
2. Syamala Soumyakrishnan, Joseph Atia Ayariga , Meenakshisundaram Sreepriya , Ganapasam Sudhandiran. Role of Immune Cells in the Initiation and Progression of Pulmonary Fibrosis. *Crit Rev Immunol.*, 2022; 42(5) :21-41.
3. Sreepriya M, Joshi V, Sudha C and Muthukumar B. Influence of micronutrients in the alleviation of immunotoxicity induced by polyaromatic hydrocarbons naphthalene and anthracene. *International Journal of Life Science and Pharma Research*, Volume 12 (5), 2022: 1-15.
4. Sreepriya M, Bhimnaik S, Bhavya Sai GK, Rumana A and Divya M. Antiproliferative effects of phytoestrogens fromononetin and resveratrol against human pulmonary adenocarcinoma cells A 549. *Bioscience, Biotechnology Research Asia*. 2022, 19 (2): 309-319.
5. Syamala Soumyakrishnan and Sreepriya M. The unequivocal dyad of gut microbiome and osteointegrity. Dynamic crosstalk and implications in osteoporosis management. *International Journal of Life Science and Pharma Research*, 2022. 12(4): 61-74.

6. Syamala Soumyakrishnan and **Sreepriya M.** The Good Better and Best about Selective Estrogen Receptor Modulators as novel guardians against osteoporosis. *Plant Cell Biotechnology and Molecular Biology*, 2022; 23(11&12): 15-30.
7. **Sreepriya M.**, Bhimnaik S, Bhavya Sai GK, Rumana A and Divya M. *In vitro* anti-tumour effects of dietary phytoestrogens. *International Journal of Biology, Pharmacy and Allied Sciences*, 2022; 11(1): 392-404.
8. **Sreepriya M.** Endotoxin activated RAW macrophages 264.7 as excellent *in vitro* model system to mimic cytokine storm and Hyper immune response observed in critically ill high morbid Covid patients. *IJARESM*, 2022, 10(6): 2657-2660.
9. Mohan Gowda CM and **Sreepriya M.** Effect of TRPV1 Agonist Capsaicin on Osteoclastogenesis in RAW 264.7 Derived Osteoclasts. *International journal for research in applied science & engineering technology*, 2018; 6(4) 2454-2458.
10. G. Abiramasundari, Mohan Gowda CM, **Sreepriya M.** Selective Estrogen Receptor Modulator (SERM) and prostimulatory effects of phytoestrogen β -ecdysone in *Tinospora cordifolia* on human osteoblasts. *Journal of Ayurveda and Integrative Medicine*, 2018; 9: 161-168.
11. Gazala Showkat and **M. Sreepriya** (2018). Effect of Fisetin on Growth of Non-Small Cell Lung Carcinoma Cells A549 and NCI-H460. *International Journal for Research in Applied Science & Engineering Technology*. 6, 4884-4887.
12. Rashmi Nagesh , Kiran Kumar K. M , Naveen Kumar M. S. Chidananda Sharma and **M. Sreepriya** (2018). Oxidative stress induced g1/s phase cell cycle arrest and cellular apoptosis in cultured buccal kb epithelial cells on exposure of aqueous extract of areca nut. *International Journal of Pharmacy and Biological Sciences*. 6, 626-631.
13. Sumalatha K.R, Mohan Gowda CM and **Sreepriya M** (2017). ROS-mediated induction of apoptosis by benzoquinone embelin in human colon adenocarcinoma cells HT-29. *Journal of Complementary and Integrative Medicine* 20160131.
14. Abiramasundari G, Mohan Gowda CM, Pampapathi G, Praveen S, Shivamurugan S, Vijaykumar M, Devi A and **Sreepriya M** (2017). Ethnomedicine based evaluation of osteoprotective properties of *Tinospora cordifolia* on *in vitro* and *in vivo* model systems. *Bio-medicine and Pharmacotherapy*, 87: 342-354.
15. Sowmya Kumar , **Sreepriya M** (2017). Effect of High Dose of Formononetin and Biochanin A on Blood Clotting Parameters in Sprague Dawley Rats. *International Journal for Research in Applied Science & Engineering Technology* (IJRASET). 5, 5034-5038.
16. Sowmya Kumar and **M Sreepriya** (2017). Phytoestrogens Formononetin and Biochanin A stimulate osteoblast proliferation and influences osteogenesis *in vitro*. *International Journal for Research in Applied Science & Engineering Technology* (IJRASET). 8, 1223-1231.

17. Sowmya Kumar and **Sreepriya M** (2017). Effect of Isoflavones Formononetin and Biochanin A to Inhibit Biofilm Formation and Quorum sensing in Bacteria- Potential Application in the Prevention of Antibiotic Resistance. *International Journal for Research in Applied Science & Engineering Technology*. 5, 10.
18. Meghavarnam AK, Salah M, **Sreepriya M** and Janakiraman S (2016). Growth inhibitory and proapoptotic effects of L-asparaginase from *Fusarium culmorum* Asp-87 on human leukemia cells (Jurkat). *Fundamentals in Clinical Pharmacology*; 2016, Nov 25, Epub ahead of print.
19. Gazala Showkat and **Sreepriya M** (2016). Effect of Small Molecule inhibitor fisetin over proliferation of human non small cell pulmonary carcinoma. *Journal of Experimental Biology and Agricultural Sciences*; 4(2): S29-S38.
20. Bhargavi SD, Praveen VK, Mariam S, **Sreepriya M** and Savitha J(2016). Purification of Lovastatin from *Aspergillus terreus* (KM017963) and evaluation of its anticancer and antioxidant properties. *Asian Pacific Journal of Cancer Prevention*; 17(8): 3797-37803.
21. Mohan Gowda and **Sreepriya.M.**, (2016), Influence of TRPV1 modulators capsaicin and capsaizepine on osteoclastogenesis *in vitro*, *World Journal of Research and Review*, 2(6): 71-75
22. **Sreepriya.M.**, (2016), Curcumin pretreatment evokes lymphoproliferative responses and macrophage activation to negate chromate-induced immunosuppression *in vitro*, *World Journal of Research and Review*, May 2 (5); 60-64.
23. Uma S and **Sreepriya M.**, (2016), Resveratrol pretreatment protects cardiomyocytes against catecholamine-induced beta adrenergic stimulation and myocyte injury during high glucose challenge. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 7(4): 855-860
24. Uma S and **Sreepriya M.**, (2016), Preventive effects of resveratrol against beta adrenergic catecholamine-induced myocardial stress during experimental hyperglycemia *in vivo* and *in vitro* models. *Cardiology and angiology*, 5(2), 1-13.
25. Baniahmad SF, Mohan Gowda CM, Shivaprasad KM, Meghana BR, and **Sreepriya M.**, (2016), Silymarin attenuates chromate (vi)-induced toxicity on human peripheral blood lymphocytes *in vitro*. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 7(1), 1608-1615.
26. Sumalatha KR and **Sreepriya M.**, (2015), Non-mutagenic and *in vitro* toxicity evaluation of embelin on human peripheral blood lymphocytes and mouse macrophages. *International Journal of Pharma and Biosciences*, 6(1); 290-296.
27. Abiramasundari G and **Sreepriya M.**, (2014), Pro-stimulatory effects of *Tinospora cordifolia* (Menispermaceae) on SAOS-2 osteoblast cells. Implications on bone remodeling and therapy of osteoporosis. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* , 5(3); 354-363.

28. Sumalatha KR, Abiramasundari G, Chetan GK, Thomas D, Sudhandiran G and **Sreepriya M.**, (2014), XIAP inhibitor and antiestrogen embelin inhibits metastasis and augments apoptosis in estrogen receptor positive human breast adenocarcinoma cell line MCF-7. *Molecular Biology Reports*, 41, 935-946.
29. Abiramasundari G, Sumalatha K.R., and **Sreepriya M.**, (2012), Effects of *Tinospora cordifolia* (Menispermaceae) on the proliferation, osteogenic differentiation, and mineralization of osteoblast model systems *in vitro*. *Journal of Ethnopharmacology*, 141; 474-480.
30. Jagadeesh MC, **Sreepriya M**, Geetha Bali and Manjulakumari D (2011). Protective effects of embelin and curcumin against Diethylnitrosamine/Phenobarbital-induced experimental hepatocarcinogenesis in rats. *International Journal of Life Sciences*, 5(1); 51-56.
31. Girishkumar V, **Sreepriya M**, Praveenkumar S, Bali G and Jagadeesh MS.,(2010) Modulating effect of *Leptadaenia reticulata* (Retz) Wight and Arn against chromate-VI-induced immunosuppression and oxidative stress on mouse splenic lymphocytes and bone marrow-derived macrophages. *Journal of Ethnopharmacology*, 131(2); 505-508.
32. Jagadeesh M.C, **Sreepriya M**, Geetha Bali and Manjula Kumari D., (2009), Biochemical studies on the effects of embelin and curcumin against N-Nitrosodiethylamine(DENA) / Phenobarbital (PB)-induced hepatocarcinogenesis in rats. *African Journal of Biotechnology*, 8 (18) : 4618-22.
33. **Sreepriya M.** and Bali G., (2006), Effects of administration of Embelin and Curcumin on lipid peroxidation, hepatic glutathione antioxidant defense and hematopoietic system during N-nitrosodiethylamine/Phenobarbital-induced hepatocarcinogenesis in Wistar rats. *Molecular and Cellular Biochemistry*, 284;49-55.
34. **Sreepriya M.** and Bali G., (2005), Chemopreventive effects of embelin and curcumin against N-nitrosodiethylamine/Phenobarbital-induced hepatocarcinogenesis in Wistar rats. *Fitoterapia*, 76, 549-555
35. Devi K P., **Sreepriya M.**, Balakrishna K. and Devaki T., (2005), Protective effect of *Premna tomentosa* extract (L. verbanaceae) on acetaminophen-induced mitochondrial dysfunction in rats, *Molecular and Cellular Biochemistry*, 272, 171-177
36. Devi K P., **Sreepriya M.**, Balakrishna K. and Devaki T., (2004), Protective effect of *Premna tomentosa* (L. Verbenaceae) extract on membrane-bound phosphatases and inorganic cations transport in acetaminophen-induced hepatotoxicity rats. *Journal of Ethnopharmacology*, 93, 371-375
37. Devi K P., Sairam M., **Sreepriya M.**, Devaki T., Ilavazhagan G. and Selvamurthy W., (2004), Immunomodulatory Effects of *Premna tomentosa* (L. verbanaceae) Extract in J 779 Macrophage Cell Cultures Under Chromate (VI)-Induced Immunosuppression, *The Journal of Alternative and Complementary Medicine*, 10(3), 535-539

38. Devi K P., **Sreepriya M.**, Balakrishna K., Veluchamy G. and Devaki T., (2004), Assessment of the Protective Potential of Premna tomentosa (L. verbanacae) Extract on Lipid Profile and Lipid-Metabolizing Enzymes in Acetaminophen-Intoxicated Rats, *The Journal of Alternative and Complementary Medicine*, 10(3), 540-546
39. Devi K P., Sairam M., **Sreepriya M.**, Ilavazhagan G. and Devaki T., (2003), Immunomodulatory Effects of Premna tomentosa extract against Cr (VI) induced toxicity in splenic lymphocytes – an in vitro study, *Biomedicine & Pharmacotherapy*, 57, 105-108
40. Devi K P., **Sreepriya M.**, Devaki T. and Balakrishna K., (2003), Antinociceptive and hypnotic effects of Premna tomentosa L. (Verbanacae) in experimental animals, *Pharmacology, Biochemistry and Behavior*, 75, 261-264
41. **Sreepriya M.**, Devaki T. and Nayeem M., (2001), Protective effects of Indigofera tinctoria L. against D-Galactosamine and Carbon tetrachloride challenge on 'In situ' perfused rat liver, *Indian Journal of Physiology and Pharmacology*, 45(4), 428-434
42. **Sreepriya M.**, Devaki T., Balakrishna K. and Apparanantham T., (2001), Effects of Indigofera tinctoria Linn. on liver antioxidant defense system during D-Galactosamine/Endotoxin-induced hepatitis in rodents, *Indian Journal of Experimental Biology*, 39, 181-184
43. Anandan R., **Sreepriya M.**, Devi K P. and Devaki T., (1999), Protective effects of Picrorhiza kurroa extract against D-Galactosamine-induced hepatitis in rats. *Medical Science Research*, 27, 127-129
44. **Sreepriya M.**, Saravanan N., Devaki T. and Nayeem M., (1999), Protective effects of L-arginine against Experimental Myocardial Injury Induced by β -Adrenergic Stimulation in Rats, *Journal of Clinical Biochemistry and Nutrition*, 27, 19-26
45. **Sreepriya M.**, Devaki T. and Nayeem M., (1998), Effects of L-Arginine Pre-treatment on Isoproterenol-Induced Changes in Lipid Metabolism during Experimental Myocardial Injury in Rats, *Journal of clinical Biochemistry and Nutrition*, 1998, 25, 169-175
46. **Sreepriya M.**, Porckodi M., Devaki T. and Nayeem M., (1998), Anti-oxidant effects of L-arginine against isoproterenol-induced myocardial stress in rats. *Medical Science Research*, 26, 587-593

List of conferences organized(acted as organizing committee member):

Treasurer, National Symposium on phytomedicine and phytopharmacology, conducted by Indian Science Congress Association and Bangalore University, November 2006.

Organizing committee member, National Seminar on Current perspectives of fungi in health care and environment, 13th-14th March, 2013. Conducted by Mycological Society of India and Bangalore University.

Organizing Committee member, Indo-UK seminar organized by the Department of Microbiology & Biotechnology, Bangalore University in collaboration with British Council Bangalore, September 2013.

Organizing Committee Member, National Conference on Secondary Metabolites of endophytic fungi/ medicinal plants and their anticancer properties (SMEFAP) March, 2015.

Organizing Committee member, National Seminar on Discover your career passion , organized by Bangalore University and Padmashree Institute of Management and Sciences, July 15th ,2016.

Organizing Committee member, National conference on Phytochemicals and Microbial bioactive compounds- Role in Agriculture and Human welfare. Conducted by Bangalore University, sponsored by University Grants Commission, October 3rd- 4th 2019.

Organizing Committee Member, National conference on “**Advances in Microbial Biotechnology- Current trends and future prospects**”, Conducted by Bangalore University in association with Microbiologists Society, India , April 28th – April 29th , 2022.

Abstracts of papers presented in seminars, workshops, conferences and symposia

(For the period 2010- 2019)

1. Sumalatha K.R and **Sreepriya.M**. Anti-proliferative effects of embelin on invasive human carcinoma cell lines Hep-G2 and HT-29. Poster presented in the “2nd international seminar on medicinal plants and herbal products”, (December 2010).
2. Abiramasundari. G and **Sreepriya.M**. Effects of *Tinospora cordifolia* on the proliferation and osteogenic differentiation of rat pre-osteoblastic cells and human osteoblast like cells MG-63. Poster presented in the “2nd international seminar on medicinal plants and herbal products”, (December 2010).
3. **Sreepriya.M**. Prospects of Morinda Citrifolia in the prevention and management of osteoporosis. *Invited lecture*. Paper presented in the “First World Noni Congress”(October 2010).

4. Abiramasundari G, Baniahmad SF, Meghana BR and **Sreepriya M.** Poster presented in the “Conference on recent trends in genomics and proteomics”.(May 2011). Ascorbic acid alleviates experimental immunosuppression in human peripheral blood lymphocytes *in vitro*.
5. Abiramasundari G and **Sreepriya M.** *Tinospora cordifolia* (Menispermaceae) extract induces osteogenic differentiation and promotes matrix mineralization in osteoblast model systems *in vitro*. Poster presented in the “Conference on recent trends in genomics and proteomics”.(May 2011).
6. Sumalatha K.R and **Sreepriya M.** Embelin inhibits cell proliferation and induces apoptotic cell death in human colon adenocarcinoma cell line HT-2. Poster presented in the “Conference on recent trends in genomics and proteomics”.(May 2011) 9.
7. Abiramasundari G, Baniahmad SF, Meghana BR and **Sreepriya M.** Poster presented in the “Conference on recent trends in genomics and proteomics” conducted by Department of Microbiology and Biotechnology, Bangalore University in association with Indian Academy Degree College, Bangalore on May 26th- 27 2011. (3 posters presented in the conference). Won first prize for the poster entitled “Ascorbic acid attenuates chromate-induced immunosuppression on human peripheral blood lymphocytes *in vitro*”.
8. **Sreepriya M.** Delivered an invited lecture entitled “Osteoporosis- The unsung enemy and silent killer- *Tinospora cordifolia* upregulates the expression of genes promoting osteoblastic activity on osteoblast model systems *in vitro*- Influence on bone remodeling and potential applications in the therapy of osteoporosis” in the Indian Science Congress (Women’s science congress), January 3-7th 2012.
9. **Sreepriya M** and Abiramasundari G. 12th International conference of Ethnopharmacology on “Traditional medicines and Globalization- The future of ancient systems of medicine” held in Kolkatta on February 12-19th conducted by the International society for ethnopharmacology in association with Jadavpur University, Kolkatta.
10. **Sreepriya M** and Sumalatha KR. Apoptosis mediated inhibition of cell proliferation and invasion in human *liver hepatocellular carcinoma cell line by embelin*. Paper presented in the National level conference Jnanarjana conducted by the Oxford college of science during February 28-29, 2012. (Oral presentation- First prize).
11. Uma S and **Sreepriya M.** Resveratrol modulates the biochemical changes and protects rat myocardium against beta adrenergic catecholamine-induced cardiac hypertrophy during experimental type I diabetes “National conference on plant biology, plants, people and planet” conducted by the Department of Botany on September 24th -27th 2013.

12. Sowmyakumar and **Sreepriya M.** Evaluation of Formononetin and Biochanin A as a selective estrogen receptor modulator(SERM)-Potential implications in the therapy of osteoporosis. Participated and presented a poster in the National conference on “Beyond the frontiers of science-Jnanarjana -2014” on 27-28th March 2014.
13. Uma S and **Sreepriya M.** “Beyond the frontiers of science-Jnanarjana -2014” on 27-28th March 2014. Protective effects of resveratrol against beta adrenergic agonist induced myocardial stress in diabetic rats.
14. Sowmya Kumar and **Sreepriya M.** “ A comparative study of Formononetin and Biochanin A on osteoblastogenesis in vitro”. Poster presented in the International Conference on “Current status, opportunities and challenges in Medicinal Plants and Natural Product Research”, 24th-26th , September 2014
15. Uma S and Sreepriya M. “Cardioprotective effects of resveratrol against β - adrenergic stimulation in streptozotocin-induced diabetic rats”. Poster presented in the International Conference on “Current status, opportunities and challenges in Medicinal Plants and Natural Product Research”, 24th-26th , September 2014
16. Bhavya BR, Anupama Singh, Anjali S ,Uthayasuriya S and Sreepriya M. “Modulating effect of ascorbic acid against cigarette smoke-induced immunotoxicity in vitro.”. Poster presented in the National Conference on Healthy Life style and Human Welfare”, 24th-26th , September 2014.
17. Sowmya Kumar, Abiramasundarai G and Sreepriya M. “Beta ecdysone in *Tinospora cordifolia* exerts prostimulatory effects on osteoblasts and protects animals against post menopausal osteoporosis.”. Poster presented in the National Conference on Healthy Life style and Human Welfare”, 24th-26th , September 2014.
18. Sreepriya M and Abiramasundari G. “Anti-osteoporotic effects of *Tinospora cordifolia* (Menispermaceae) in animal models of post menopausal osteoporosis . Paper presented in the International Conference on “Current status, opportunities and challenges in Medicinal Plants and Natural Product Research”, 24th-26th, September 2014.
19. Mohan Gowda CM, Ram Kumar K, Vijoy V, Chaitra CS and Sreepriya M. Toxicological evaluation of some food additives on in vivo and in vitro models. Paper Presentation in the Karnataka Science Congress- 11th Kannada VijnanaSammelana, 13-15th September, 2015. (**Young scientist award paper**).

20. Mohan Gowda and Sreepriya M. XIAP inhibitor embelin downregulates the expression of proinflammatory cytokines and modulates NF- κ B p65 signaling in human hepatocellular carcinoma cells. (**Best poster award**) National Seminar on “Novel approaches in cancer therapeutics”, 11th& 12th February 2016, Karpagam Academy of Higher Education, Coimbatore.
21. Gazala Showkat and Sreepriya M. Small molecule inhibitor fisetin modulates STAT 3 signaling and induces apoptotic death in human non small cell pulmonary carcinoma cells (**Best paper award**). National Seminar on “Novel approaches in cancer therapeutics”, 11th& 12th February 2016, Karpagam Academy of Higher Education, Coimbatore.
22. Rashmi Nagesh, Chidananda Sharma and Sreepriya. Proapoptotic effects of aqueous areca nut extract and arecoline on human buccal cells. National Conference on :Future India- Science and Technology Research Innovations in Biology, 14th & 15th February 2019.
23. Gazala Showkat and Sreepriya M. Small Molecule Inhibitor fisetin induces apoptotic death, cell cycle arrest and attenuate STAT3 activation in human non small cell lung carcinoma(NSCLC) cells. International symposium on “Tumour microenvironment and cancer prevention and therapeutics. 8th and 9th February, 2019.
24. Karthik M, Kavitha and Sreepriya.M. Mitigating effects of Vitamin E and Vitamin C against radiofrequency electromagnetic radiation (RF-EMR)-induced damage *in vitro* and *in vivo*. International conference on recent advances in Biomedical Technology(RABT-2018), Thiruvalluvar University, Vellore, Tamil Nadu.
25. Mohan Gowda and Sreepriya.M. TRPV1 channel antagonist capsazepine abrogates osteoclastogenesis and influences bone remodeling *in vitro* on RANKL-induced osteoclasts differentiated from RAW 264.7 macrophages. International conference on recent advances in Bioresource technology (RABT-2017) (**Best paper award**), Thiruvalluvar University, Vellore, Tamil Nadu.
26. Rashmi nagesh and Sreepriya.M. Aqueous arecanut extract induces oxidative stress and apoptosis by down regulating cell cycle regulators and AP-1 transcripts in A-549 cells. National conference on emerging trends and new challenges in biotechnology- Advances in free radicals and antioxidants. 2-3rd February, 2017, MGR college, Hosur, Tamil Nadu.
27. Rashmi Nagesh , Chidanada Sharma and Sreepriya.M. Proapoptotic effects of aqueous areca nut extract and arecoline on human buccal cells. National Conference on”Future India Science and Technology: Research Innovations in Biology”14th & 15th February 2019. Indian Science Congress Association, Bangalore Chapter And Jain Deemed to be University.
28. Gazala Showkat and Sreepriya.M. Small Molecule Inhibitor fisetin induces apoptotic death, cell cycle arrest and attenuates STAT 3 activation in human Non Small Cell Lung

Carcinoma (NSCLC) cells. International symposium on “Tumour microenvironment and cancer prevention and Therapeutics 8 th & 9th February, 2019. Jawaharlal Nehru University(JNU), New Delhi And Cancer Research and Care Academy(CRCA).

- 29.**Sreepriya M**, Soumya Krishnan S, Dhanya N, Lakshmi G, Pallavi N and Pallavi PK. In vitro anti-inflammatory effects of Kabasura kudineer- a classical siddha medicine successfully used in anti-covid therapy in Tamil Nadu during the Pandemic. International Conference on the Sustainable Utilization of Bioresources, January 10-15th, 2022, **(Adjudged third best oral presentation)**.
- 30.**Sreepriya M**, Gazala Showkat, Joshi V, Sudha C and Muthukumaran B. Alleviation of immunotoxic effects of polyaromatic hydrocarbons naphthalene and anthracene by micro nutrients. International Conference on Environment, Water, Agriculture, Sustainability and Health: United together in the battle against Pandemic, January 21-22, 2022 Organized by Hindu College, University of Delhi **(Adjudged third best oral presentation)**.
- 31.Soumya Kumar, Nidhi Prakash and **Sreepriya M**. Isoflavones Formononetin and Biochanin A abrogates glucocorticoid induced bone loss in male osteoporotic rats. National Conference on Advances in Microbial Biotechnology: Current trends and Future Prospects, April 28th-29th, 2022 Organized by Department of Microbiology, Biotechnology and Food Technology, Bangalore University, Bangalore.
32. Bharghavi G, Bhuvi GB, Abhishek and **Sreepriya M**. Role of Micronutrients as quorum sensing inhibitors. National conference on Phytochemicals and Microbial Bioactive Compounds, October 2rd-4th, 2019, Bangalore. Department of Microbiology, Biotechnology and Food Technology, Bangalore University, Bangalore.
- 33.**Sreepriya M** and Sowmya Kumar. Safety evaluation of phytoestrogens Biochanin A and Formononetin on in vitro and in vivo models. World Congress on Medicinal Plants and Natural Products Research, June 11th, Bangalore organized by Science Society, India.

Chairmanships in conference oral sessions/poster session

- ❖ **Session Chair** (Oral presentations), International conference on Recent Advances in Biomedical Technology(RABT-2018), Thiruvalluvar university, Vellore, Tamil Nadu.
- ❖ **Session chair** (Plenary lectures & Oral presentations). National conference on Future India-Science and Technology: Research Innovations in Biology, Jain University, 14th & 15th February, 2019, Bangalore, Karnataka.
- ❖ **Co-chair** (Invited lecture session and poster session). National conference on phytochemicals and microbial bioactive compounds, October 3rd-4th, 2019, Bangalore University, Bangalore.

- ❖ **Session chair** (Oral presentations), International Science Fiction Conference 2020, Bangalore University, Bangalore.

Invited Lectures Delivered

- ❖ Invited lecture entitled “*Östeoporosis-Unsung enemy and silent killer*”, **Indian Science Congress**, Bhubaneswar, January 2012.
- ❖ Invited lecture entitled” *Discovery of cancer therapy by inhibition of negative immune regulation*, 22nd February, 2019. As a part of Hargobhind Khorana Lecture Series on Nobel Lecture in Physiology and Medicine, 2018. Conducted by the **Karnataka Association for the Advancement of Science (KAAS)**, Bangalore.
- ❖ Invited lecture entitled *Immune check point blockade therapy*”, 6th March, 2019, Oxford college of Science, Invited lecture for students enrolled in **BiSEP** programme supported by *K-Tech (Under department of IT/BT, Govt. of Karnataka)* Bangalore.
Invited lecture entitled “*Role of Regulatory T cells in autoimmune disease* ”, on 25th March 2020, Oxford college of Science, Invited lecture for students enrolled in **BiSEP** programme supported by *K-Tech (Under department of IT/BT, Govt. of Karnataka)* Bangalore.

Evaluation of Ph.D thesis:

External examiner for Ph.D thesis submitted to

- Thiruvalluvar University, Vellore, Tamil Nadu,
- Vellore Institute of Technology (VIT) University, Vellore, Tamil Nadu
- Cochin University of Science and Technology, Cochin (CUSAT), Kerala,
- Reva University, Bangalore.
- Sambhalpur University, Orissa (External examiner for D.Sc thesis)