

Profile of Dr.S.Sumathi



- (i) Designation : Assistant Professor (SG)
- (ii) Department : Department of Biochemistry, Biotechnology
and Bioinformatics
- (iii) Qualification : Ph.D Biochemistry
- (iv) Experience : 21 Years
- (v) Specialization : Biochemistry
- (vi) Email id : sumii.venkat@gmail.com
sumathi_bc@avinuty.ac.in
- (vii) Mob No: 9843021733
- (viii) Research Guidance :

Degree	Awarded	Guiding
M.Phil	8	1
Ph.D	4	3

(ix) Publications

S.No	Category	Total	For the Period (2013-2018)
1	International Journals	41	22
2	National Journals	5	-
3	In house	-	-
4	Full length articles in proceeding	9	7
5	National/International Conference	30	13
6	Books / Chapters in Books / Books Edited	2	-

Best 5 Publications (2013-2018)

S.No	Title of the Article	Name of the Journal	I/N	ISBN/ISSN	Vol.	Pages	Date, Month and Year
1.	<i>In vitro</i> growth inhibitory activity of <i>Prosopis cineraria</i> leaves in MCF-7 breast cancer cell line.	Int. J. Res.Pharm . Sci.	International	0975-7538	4	40-44	2013
2.	<i>In vitro</i> antiapoptotic activity of thymoquinone in <i>Saccharomyces cerevisiae</i> cells	J. Pharm. Res.,	International	0974-6943	8	1380-1386	Oct 11, 2014
3.	Intracellular uptake of PEG - functionalised baicalein loaded iron oxide nanoparticles regulates apoptotic genes in triple negative breast cancer cells: mitochondrial pathway targeted therapy for breast cancer	J.Cluster Science	International	DOI 10.1007/s10876-017-1204-2	2		March 25,2017
4.	Induction of intrinsic apoptotic pathway and cell cycle arrest via baicalein loaded iron oxide nanoparticles as a competent nanomediated system for triple negative breast cancer therapy	RSC advances	International	2046-2069	6	64531 - 64543	27 Jun 2016
5.	Novel T-C@AgNPs mediated biocidal mechanism against biofilm associated 2 methicillin-resistant <i>Staphylococcus aureus</i> (Bap-MRSA) 090, cytotoxicity and 3 its molecular docking studies	MedChem Comm, Royal Society of Chemistry	International	2040-2503	8	2181-2194	30 Oct 2017

Sponsored Projects

Major Projects handled so far		Major Projects handled during (2013-2018)	
No.	Financial Outlay	Nos.	Financial Outlay
1	10,000/-	1	11,52,400

(x) Details of the Projects (2013-2018):

S.No	Title of the Project	Funding Agency	Duration	Total Amount in Lakhs
1.	Principle investigator in UGC major project on 'Study of PARP gene expression by <i>Prosopis cineraria</i> to treat breast cancer'	UGC	July 1, 2011 to July 2014	Rs.11,52,400

- (x) Seminars / Conferences / Workshops organized (2013-2018) : 3
 (xi) Seminars / Conferences / Workshops attended (2013-2018) : 13
 (xii) Awards / Achievements / Recognitions (2013-2018) : 3
 (xiii) Invited Talks (2013-2018) : 4
 (xiv) Visits Abroad (2013-2018) : 1
 (xv) Additional Responsibilities (2013-2018) :6

International Publications

S.No	Authors	Title of Article	Name of the Journal, Vol. Year, page No	ISSN No. & Impact Factor
1.	Sumathi, S. and Padma, P.R	Antioxidant status of different parts of <i>Withania somnifera</i>	Plant Archives,2008, 8, 69-72.	ISSN:0972-5210
2.	Sumathi, S. and Padma, P.R	Radical scavenging activity of different parts of <i>Withania somnifera</i>	International Journal of Plant Sciences, 2009, 4, 198-201.	ISSN:1058 5893, Impact factor: 1.64

3.	Sumathi, S. and Padma, P.R.	A comparative study on the inhibition of lipid peroxidation by <i>Withania somnifera</i> in different membrane models	International Journal of Plant Sciences, 2009, 4, 75-78	ISSN:10585893, Impact factor: 1.64
4.	Radha, P., Padma, P.R. and Sumathi, S.	Effect of <i>Solanum nigrum</i> leaf extract on the non-enzymic antioxidant profile of experimental mice induced with tumor	International Journal of Plant Sciences, 2009, 4, 582-585	ISSN:1058-5893, Impact factor: 1.64
5.	Sumathi, S. , Padma, P.R., Radha, P., Priyadharshini, N. and Padma, N.	Radical scavenging activities of different extracts of the leaves of <i>Withania somnifera</i> ,	International Journal of Plant Sciences, 2009, 4, 477-481	ISSN:1058-5893, Impact factor: 1.64
6.	Sumathi, S. , Padma, N., Radha, P., Priyadharshini, N. and Padma, P.R	Protective effect of leaf and herbal extracts of <i>Withania somnifera</i> against oxidative damage to DNA and lipids	Advances in Pharmacology and Toxicology, 2010, 4, 17-22.	ISSN:0973-2381
7.	Janet, J., Radha, P., Padma, P.R. and Sumathi, S.	Influence of Bacopa monnieri leaf extract on the non-enzymic antioxidant profile in oxidatively stressed primary culture cells	International Journal of Pharmacology and Biological Sciences, 2010, 11, 31-36	ISSN: 0973- 6808
8.	Sumathi, S. and Padma, P.R.	Qualitative phytochemical analysis and radical scavenging activities of leaves and tubers of <i>Withania somnifera</i>	Advances in Plant Sciences, 2010, 23, 419-421	ISSN: 0970- 3586 Impact factor: 2.7
9.	Sumathi, S. and Padma, P.R.	Studies to substantiate the candidature of <i>Alternanthera sessilis</i> as novel source of antioxidants	Advances in Plant Sciences, 2010, 23, 427-430.	ISSN: 0970- 3586 Impact factor:2.7

10.	Sumathi, S. , Malathy, N., Dharani, B., Sivaprabha, J., Hamsa, D., Radha, P and Padma, P.R.	Cytotoxic studies of latex of <i>Euphorbia antiquorum</i> in vitro models	Journal of medicinal plant research, 2011, 5, 4715-4720	ISSN:1960-0875, Impact factor:0.879
11	Sumathi, S. , Malathy, N., Dharani, B., Sivaprabha, J., Hamsa, D., Radha, P and Padma, P.R.	Antibacterial and antifungal activity of latex of <i>Euphorbia antiquorum</i>	African journal of microbial research, 2011, 5, 4753-4756	ISSN:1996-0808, Impact factor:0.539
12	Sivaprabha, J., Sumathi, S. , Dharani, B. and Padma, P.R.	Radical scavenging activity of leaves and rhizome of <i>Curcuma amada</i>	International Journal of Pharmaceutical Research and development, 2011, 3(6), 167-174	ISSN: 0974-9446
13	Dharani, B., Sumathi, S. , Sivaprabha, J. and Padma, P.R.	<i>In vitro</i> antioxidant potential of <i>Prosopis cineraria</i> leaves	J.Nat.Prod.Plant Resource, 1(3), 26-32	ISSN:2231-3184
14	Radha Palaniswamy., Sumathi Sundaravadivelu and Padma Ragunathan	Antioxidant status of oxidant challenged rats treated with <i>Bacopa monnieri</i> leaf extract	International journal of Pharmacy Research, 2011, 4, 10, 3538-3539	ISSN: 0974-6943, Impact factor:2.2
15	Sumathi, S. , Sowmini, C.M., Dharani, B., Sivaprabha, J. And Padma, P.R.	Antioxidant status of goat liver slices treated with methanolic extract of <i>Nyctanthes arbour tristis</i> exposed to oxidative stress	International Journal of Pharma and Biosciences, 2011, 2, 4, 376-382	ISSN: 0975-6299, Impact factor: 0.67
16	Sumathi S. , Dharani B., Sivaprabha J. and Padma P.R	Antiproliferative and apoptotic potential on MCF - 7 cell line by <i>Curcuma amada</i> and <i>Prosopis cineraria</i> leaf extract	J Cell Sci Ther 2011, 2:4doi: http://dx.doi.org/10.4172/2157-7013.S1.10	
17	Sivaprabha, J., Dharani, B., Padma, P.R. and Sumathi,S	<i>In vitro</i> prevention of oxidative damage by <i>Curcuma amada</i> in goat liver slices exposed to	Journal of Pharmacy Research, 2012,5,2.	ISSN: 0974-6943, Impact factor:2.6

		oxidative stress		
18	Sumathi, S. , Hamsa, D., Dharani, B., Sivaprabha, J., Malathy, N., Radha, P and Padma, P.R,	Isolation and characterization of chitin from prawn shell waste and incorporation into medical textiles	International Journal of Recent Scientific Research,2012, 3, 8, 676 – 680.	ISSN: 0976 -3031, Impact factor – 3.0, ICV: 5.72
19	Kavithaa, K, Sumathi, S and Saravana Bhavan, S,	Growth performance of <i>Macrobrachium malcolmsonii</i> post larvae with formulated feeds using cotton seed oilcake	International Journal of Recent Scientific Research, 2012, , 3(5), 389 – 395	ISSN: 0976 -3031, Impact factor – 3.0, ICV: 5.72)
20	Sumathi, S. , Dharani, B., Sivaprabha, J. Sonia raj,K and Padma, P.R.,	Cell death induced by methanolic extract of <i>Prosopis cineraria</i> leaves in MCF 7 breast cancer cell line	International Journal of Pharmaceutical Science Invention,2013, 2(1),21 – 26	ISSN: 2319-6718
21	Sumathi, S. , Dharani, B., Sivaprabha, J. Sonia raj,K and Padma, P.R.,	<i>In vitro</i> growth inhibitory activity of <i>Prosopis cineraria</i> leaves in MCF 7 breast cancer cell line	International Journal of research in pharmaceutical sciences,2013, 4(1),40 – 45	ISSN: 0975-75358, ICV:5.07
22	S.Sumathi. , G.T.Iswarya, B.Dharani,,J. Sivaprabha, and Padma, P.R,	Comparative study of radical scavenging activity and phytochemical analysis of fresh and dry rhizomes of <i>Curcuma zeodaria</i> ,	International Journal of pharmaceutical sciences and research, 2013, 4 (3), 1- 5	ISSN : 0975-8232, Impact factor:2.4)
23	Sumathi, S. , Hamsa, D., Sowmini, C.M. and Padma, P.R.,	Cytotoxic influencing activity of latex of <i>Euphorbia antiquorum</i> Linn	International Journal of pharmacy and pharmaceutical sciences,2013, 5(2), 130-133.	ISSN:0975 – 1491, Impact factor:0.91
24	Sivaprabha, J., Dharani, B., Padma, P.R. and Sumathi, S.	<i>In vitro</i> cytotoxicity testing of <i>Curcuma amada</i> Roxb using oxidatively stressed <i>Saccharomyces cerevisiae</i> cells	Indo American Journal of Pharmaceutical Research,2013, 3(7), 5386-5394.	ISSN: 2231-6876, Impact factor–0.85

25	Radha,P,Meera.R Saranya,J, Sumathi,S and Padma,P.R	Antioxidant status of <i>Phyllanthus niruri</i> leaf extracts on the oxidative damage to biomolecules	International Journal of Recent Scientific Research, 2013,	ISSN: 0976 -3031, Impact factor – 3.0, ICV 5.72
26	Sundaravadivelu Sumathi , Rengarajan Premalatha, Krishnamoorthy Kavithaa and Palghat Raghunathan Padma	<i>In- vitro</i> Free Radical Scavenging Activity of <i>Euphorbia hirta</i> Leaves and its preliminary phytochemical analysis	International Journal of Advances in Pharmaceutical Research,2013, 4(7), 2019-2023	ISSN: 2230-7583, Impact factor: 0.5
27	Hamsa D, Sumathi S , Kavithaa K, Sowmini CM, Padma PR	Apoptosis influencing activity of latex of <i>Euphorbia antiquorum</i> Linn in Mice	International Journal for Pharmaceutical Research Scholars, 2013,2, 1-4.	ISSN: 2277-7873
28	Muthukumari D, Sumathi S and Padma PR	<i>In vitro</i> analysis of anethole as an anticancerous agent for Triple Negative Breast Cancer	International Journal of Pharmaceutical Sciences Review and Research, 2013, 23(2), 314-318.	ISSN: 0976-044X, Impact factor: 2.19
29	Krishnamoorthy Kavithaa, Sundaravadivelu Sumathi , Manickam Paulpandi and Palghat Raghunathan Padma	Increased anticancer efficacy by the combined administration of quercetin in multidrug resistant breast cancer cells	BMR Cancer Research, 2014, 1(1), 1-13	Impact Factor: 2.71
30	Sivaprabha Jambunathan, Dharani Bangurusamy, Palghat Raghunathan Padma and Sumathi Sundaravadivelu	Cytotoxic activity of the methanolic extract of leaves and rhizomes of <i>Curcuma amada</i> Roxb against breast cancer cell lines	Asian Pacific Journal of Tropical Biomedicine, 2014(2), S774-S778.	ISSN: 2221-1691, Impact Factor: 1.17
31	Sonia Raj K, Padma PR and Sumathi S	<i>In vitro</i> antiapoptotic activity of thymoquinone in <i>Saccharomyces cerevisiae</i> cells	Journal of Pharmacy Research 2014,8(10),1380-1386	ISSN: 0974-6943

32.	J.Sivaprabha, B.Dharani S. Sumathi , and P.R. Padma,	Induction of DNA damage by the leaves and rhizomes of <i>Curcuma amada</i> Roxb in breast cancer cell lines	Journal of Acute Disease Doi: 10.1016/S2221-6189(14)60075-5	2221-6189
33.	Dharani, B., Sivaprabha,J., Padma, P.R. and Sumathi, S ,	<i>In vitro</i> antioxidant activity of <i>Prosopis cineraria</i> leaves against H ₂ O ₂ induced oxidative stress in goat liver slices	International Journal of Pharmacy and Pharmaceutical Sciences 2015; 7 (5): 33-37	0975-1491 Impact factor: 0.55
34.	Dharani, B., Sivaprabha,J., Padma, P.R. and Sumathi, S .	<i>Prosopis cineraria</i> leaf extract protect H ₂ O ₂ induced oxidative stress-induced cell death in <i>saccharomyces cerevisiae</i>	Asian journal of pharmaceutical and clinical research 2105, Vol. 8(2),311-315.	0974-2441
35.	Sampathkumar Banupriya, Krishnamoorthy Kavithaa,Palghat Raghunathan Padma and Sundaravadivelu Sumathi	Characterization of Anethole coated iron oxide nanoparticles and assessment of its biological activity	European Journal of Biomedical and Pharmaceutical Sciences 2016, 3(1), 272-278	2349-8870
36.	Krishnamoorthy Kavithaa, Manickam Paulpandi, Palghat Raghunathan Padmaa and Sundaravadivelu Sumathi	Induction of intrinsic apoptotic pathway and cell cycle arrest via baicalein loaded iron oxide nanoparticles as a competent nano-mediated system for triple negative breast cancer therapy	Royal Society of Chemistry, 2016, 1-10.	2046-2069

37.	Sivaprabha,J., Dharani, B., Padma, P.R. and Sumathi, S.	Apoptosis induced <i>in vitro</i> anticancer activity of methanolic extract of leaves and rhizomes of <i>Curcuma amada</i> Roxb.against breast cancer cells	International Journal of Green Pharmacy 2016,10 (2):98-103	Vol:10(2)98
38.	Kavithaa,K, Paulpandi,M., Padma ,P.R and Sumathi,S	Induction of intrinsic apoptotic pathway and cell cycle arrest via baicalein loaded iron oxide nanoparticles as a competent nano-mediated system for triple negative breast cancer therapy	RSC advances, 2016, (64531-64543)	2046-2069
39.	Kavithaa,K., Sumathi,S and Padma,P.R	Intracellular uptake of PEG -functionalised baicalein loaded iron oxide nanoparticles regulates apoptotic genes in triple negative breast cancer cells: mitochondrial pathway targeted therapy for breast cancer	J.Cluster Science DOI 10.1007/s 10876-017-1204-2	Impact factor 1.66
40.	H. M. Manukumar, B. Chandrasekhar , K.P. Rakesh , A. P. Anand , M. Nandhini , P. Lalitha , S.Sumathi , Hua-Li Qin and S. Umesha 1	Novel T-C@AgNPs mediated biocidal mechanism against biofilm associated 2 methicillin-resistant <i>Staphylococcus aureus</i> (Bap-MRSA) 090, cytotoxicity and 3 its molecular docking studies	MedChemComm, Royal Society of Chemistry, 2017	Impact factor 2.6
41.	S. Sumathi , A. Poornima, D. Muthukumari and P. R. Padma	Cytotoxicity and <i>in-silico</i> studies of anethole in triple negative breast cancer cells	International Journal of Pharmaceutical science and research	2320-5148

42.	S.Sumathi , K Raj Sonia, SJS Banupriya, A Poorninam and P.R. Padma	Reverse screening bioinformatics approach to identify potential anti breast cancer targets using thymoquinone from nutraceuticals black cumin oil	Anti-cancer agents in Medicinal Chemistry, 2019	IF:2.56 ISSN: 1871-5206
43.	Peng Donga, K.P.Rakesha, H.M.Manukumar, Yasser Hussein, Eissa Mohammed, S.Karthik, S.Sumathi , P.MalludHua-LiQina	Innovative nano-carriers in anticancer drug delivery-a comprehensive review	Bioorganic Chemistry, 2019	IF:3.390 ISSN: 0045-2068

National Publications:

S.No	Authors	Title of Article	Name of the Journal Vol. Year, page No	ISSN No. & Impact Factor
1.	Padma, P.R., Sumathi, S. and Aparna, S.	Antioxidant status of <i>Caesalpinia pulcherrima</i> Swartz,	J.Med. Arom. Plants, 2000, 22-4D-23 1-A, 78-83.	0974-7877
2.	Sumathi, S. , Padma, P.R., Gathampari, S. and Vidya, M.	Free radical scavenging activity of the different parts of <i>Withania somnifera</i> ,	Ancient Science of Life, 2007, XXVI, 30-34.	0257-7941
3.	Sivaprabha, J., Supriya, S., Sumathi, S. , Padma, P.R., Nirmaladevi, R. and Radha, P.	A study on the levels of non-enzymic antioxidants in the flowers of <i>Clitoria ternatea</i> ,	Ancient Science of Life, 2008, XXVII, 28-32.	0257-7941
4.	Sumathi,S and Padma,P.R	Studies to substantiate the candidature of <i>Alternanthera sessilis</i> leaves as	Advances in plant sciences,2010, 23(1),419 – 421	0257-7941

		novel source of antioxidants		
5.	Sumathi,S and Padma,P.R	Qualitative phytochemical analysis and radical scavenging activities of tubers and leaf extracts of <i>Withania somnifera</i>	Advances in plant sciences,2010, 23(1),427 – 430.	0970-3586.

International / National Conferences / Seminars / Workshops– Attended

S.No	Name of the Faculty	Title of the paper	Conference name	Venue	Date
1	Sumathi,S and Padma,P.R	Molecular studies on the effect of <i>Withania somnifera</i> using Hep2 cell line	International conference on Antioxidants and free radicals in health – Nutrition and Radio – protectors and IV annual conference of the society for free radical research in India,	St Johns academy of medical research,Bangalore	10 th – 12 th Jan,2005.
2.	Sumathi,S and Padma,P.R	Antioxidant effects of <i>Withania somnifera</i> in oxidant challenged rats,International conference on Ethanopharmacology and alternative medicine,20 th – 22 nd Jan 2006	International conference on Ethanopharmacology and alternative medicine	Amala cancer research institute,Trissur	20 th – 22 nd Jan 2006.
3.	Sumathi,S and	Molecular studies	International	Krishnamal	14 th and 15 th

	Padma,P.R	on the effect of <i>Withania somnifera</i> in response to oxidative stress	conference on Biotechnology – promises and realities	college for women,Coimbatore	July,2006.
4	Sumathi,S and Padma,P.R	Protective effect of <i>Withania somnifera</i> to biomolecules exposed to oxidative stress,	International symposium on advances in food Biotechnology and Nutrition,	MACFAST,Tiruvalla	30 th Nov and Dec 1 st , Biospectrum 2007
5	Sumathi,S and Padma,P.R	<i>In vivo</i> studies to substantiate the candidature of <i>Alternanthera sessilis</i> leaves as a novel source of antioxidants,	International conference on Natural products in healthand 21 st Annual conference of The Indian society for Atherosclerosis Research	Annamalai University,Chidambaram	8-10 th ,2008.
6	Sumathi,S and Padma,P.R	Comparative studies of the radical scavenging activities of the leaves and callus of <i>Withania somnifera</i>	International conference on Natural products in healthand 21 st Annual conference of The Indian society for Atherosclerosis Research	Annamalai University,Chidambaram	8-10 th ,2008.
7	Sumathi,S Lakshmi menon,M., Padma,P.R and Dharani,B	Antioxidant response evoked by leaf and herbal extracts of <i>Withania somnifera</i> in <i>in vitro</i> models exposed to oxidative stress,.	International conference on Current trends in advanced Biomedical technology(CTAB-2009) ,	Nehru Arts and science college, Coimbatore	14 th and 15 th 2009
8	Sumathi,S., Archhana,M and Padma,P.R	Effect of <i>Withania somnifera</i> leaf extracts on etoposide induced	International conference on Herbs and herbomineral formulationsPhytoco	SASTRA University,Thanjavur	6 th and 7 th Feb 2010

		apoptosis in primary cultured chick embryo fibroblasts	gress 2010		
9	Sumathi,S, Thiruselvi and Padma,P.R	Differential response evoked by <i>Triticum aestivum</i> leaf extract on the oxidative – stress induced apoptosis in chick embryo fibroblasts and Hep 2 cancer cell line	International conference on stem cells and cancer research,	School of Biotechnology, International institute of information technology, Pune	11-14 th Dec 2010
10	Sumathi,S., Lakshmi menon., Hamsa,D and Padma,P.R	Antioxidant response evoked by leaf and herbal extracts of <i>Withania somnifera</i> in an <i>in vitro</i> model exposed to oxidative stress,	3 rd Indo – Korean joint seminar on Medicinal plant research (IKMPR - 2010)	Avinashilingam University	23 rd Feb, 2010.
11	Sumathi,S., Deepa,K., Jayapradha,T and Padma,P.R	Effect of <i>Withania somnifera</i> leaf extract on oxidative stress induced apoptosis in <i>Saccharomyces cerevisiae</i> cells exposed to oxidative stress	3 rd Indo – Korean joint seminar on Medicinal plant research (IKMPR -2010)	Avinashilingam University	23 rd Feb, 2010.
12	S.Sumathi, Malathy,N, Dharani,B, Sivaprabha,J and Padma,P.R.	Assessment of antimicrobial and cytotoxicity of latex of <i>Euphorbia antiquorum</i> ,	International conference on recent trends in therapeutic advancements of free radical science and 10 th annual meeting of SFRR	Bharathi Women's College, Chennai	Jan 9-11, 2011.
13	Sumathi,S, Sowmini,C.M, Hamsa,D	Antiproliferative and proapoptotic effects of	2 nd international conference on stem cells and cancer	Institute for developmental studies	15 th -18 th October, 2011

	andPadma,P.R	methanolic extract of the leaves of <i>Nyctanthes arbor – tristis</i>		YASADHA, Pune	
14	S.Sumathi, D.Muthukumari and P.R.Padma	<i>In vitro</i> and <i>In Silico</i> analysis of anethole as an anticancerous agent for triple negative breast cancer	4 th International Conference on stem cells and cancer: proliferation, differentiation and apoptosis	Haffkine Institute, Parel, Mumbai	19 th - 22 nd October 2013
15	Dr.S.Sumathi (invited speaker)	Phytochemical Pharmacy-Healing potential of plants	UGC sponsored National seminar cum workshop on Techniques in Biosciences	KKTM Govt. college, Kodungallur	18 th & 19 th February 2014
16.	Dr.S.Sumathi	Apoptosis influencing activity – In vitro and In silico analysis of anethole as an anticancerous agent for triple negative breast cancer	4 th International Conference on Stem cells & cancer(ICSCC – 2013): Proliferation, Differentiation & Apoptosis	Haffkine Institute, Mumbai	International
17.	S.J.S.Banupriya, K.Kavithaa, S.Sumathi and P.R. Padma	Green synthesis of <i>emblica officinalis</i> magnetic nanoparticles – its characterization and antibacterial activity	Micromeet'15 National Conference on Innovative approaches in Bioscience	Department of Microbiology, Sree Narayana Guru College, Coimbatore	12 th February 2015
18.	S.Sumathi and P.R.Padma	Apoptosis Induction, Cell cycle arrest and <i>in vitro</i> and <i>in silico</i> anticancer activity of Anethole in Breast Cancer cell line	1 st International Conference on Novel Frontiers in Pharmaceutical and Health Sciences (INNOPHARM 1).	M.P.Council of Science and Technology, Bhopal, Madhya Pradesh	10 th and 11 th October 2015
19.	Kavithaa.K, P.R.Padma and Sumathi,S.	Apoptosis inducing activity of baicalein coated iron oxide nanoparticles in triple negative breast	1 st International Conference on Novel Frontiers in Pharmaceutical and Health Sciences	M.P.Council of Science and Technology, Bhopal, Madhya Pradesh	10 th and 11 th October 2015

		cancer cells (MDA MB 231)	(INNOPHARM 1).		
20.	S.Sumathi and P.R.Padma	Differential Anticancer Response by Curcuma amada leaves and Rhizomes in Breast Cancer Cell Lines	International Conference on Translational Cancer Research (ICTCR)	UGC and the U.S. Consulate, Chennai Avinashilingam University	14 th to 16 th December
21.	Kavithaa,K, P.R.Padma and Sumathi,S.	Characterization of Baicalein Coated Iron Oxide Nanoparticles and Cytotoxicity in Breast Cancer Cells	International Conference on Translational Cancer Research (ICTCR)	UGC and the U.S. Consulate, Chennai Avinashilingam University	14 th to 16 th December
22.	Dr. S. Sumathi	E - Services	Practices on Digital Services for the NationBuilding	Avinashilingam University	
23.	S.Sumathi and P.R.Padma	Apoptosis Induction, Cell cycle arrest and Anticancer of Prosopis Cineraria in Breast Cancer cell lines	Global Cancer Summit, International Collaborative conference	IISC, Bangalore	18 th to 20 th Nov 2015
24.	S.J.S.Banupriya K.Kavithaa, P.R.Padma and S.Sumathi	Characterization, cytotoxicity and biocompatibility of anethole coated iron oxide nanoparticles	36 th Annual Conference of Indian Association for Cancer Research (The 21 st Century-War on Cancer)	Amala Cancer Research Centre, Thrissur, Kerala	February 9 th to 11 th 2017
25.	S.J.S.Banupriya K.Kavithaa, P.R.Padma and S.Sumathi	Characterization and antibacterial activity of biosynthesised <i>Emblica officinalis</i> iron oxide nanoparticles	International conference on Herbal and Natural Components as the Future of Pharmacology and 7 th Annual meet of the National Society of Ethnopharmacology	Avinashilingam Institute for Home Science and Higher Education for women, Coimbatore	27 th February to 1 st March 2017
26.	Chitra, E., Sumathi, S.	Cytotoxicity of isolated and purified	International conference on	Avinashilingam Institute for	27 th February to

	Aiswarya, T., Poornima, A. and Padma, P.R.	bromelain from <i>Ananas comosus</i>	Herbal and Natural Components as the Future of Pharmacology and 7 th Annual meet of the National Society of Ethnopharmacology	Home Science and Higher Education for women, Coimbatore	1 st March 2017
27.	Mayuri. P.K., Sumathi. S. , Kavithaa. K. and Padma. P.R.	Characterisation and Antibiofilm Activity of <i>Eichhornia crassipes</i> Iron Oxide Nanoparticles	International conference on Herbal and Natural Components as the Future of Pharmacology and 7 th Annual meet of the National Society of Ethnopharmacology	Avinashilingam Institute for Home Science and Higher Education for women, Coimbatore	27 th February to 1 st March 2017
28.	Poornima, A., Ragavan, B. and Sumathi, S.	Detoxification of lead toxicity using <i>in vitro</i> antioxidant properties of <i>Cynodon dactylon</i> in lead induced goat liver homogenate	International conference on Herbal and Natural Components as the Future of Pharmacology and 7 th Annual meet of the National Society of Ethnopharmacology	Avinashilingam Institute for Home Science and Higher Education for women, Coimbatore	27 th February to 1 st March 2017
29	K.Kavithaa, P.R.Padma and S.Sumathi	Anticancer activity of biosynthesized Zinc oxide nanoparticles in triple negative breast cancer cells MDA-MB-231	International conference on Herbal and Natural Components as the Future of Pharmacology and 7 th Annual meet of the National Society of Ethnopharmacology	Avinashilingam Institute for Home Science and Higher Education for women, Coimbatore	27 th February to 1 st March 2017
30.	Aiswarya.T, Chitra.E, Poornima.A,	Isolation, purification and characterization of	International conference on Herbal and Natural	Avinashilingam Institute for Home Science	27 th February to 1 st March

	Sumathi. S and Padma.P.R	bromelain from Ananas comosus	Components as the Future of Pharmacology and 7 th Annual meet of the National Society of Ethnopharmacology	and Higher Education for women, Coimbatore	2017
31.	Sonia Raj, K., Sumathi, S and Padma, P.R	In silico docking studies of thymoquinone with cancer and apoptotic targets proteins, inhibits proliferation and induces apoptosis in breast cancer cells	International conference on Herbal and Natural Components as the Future of Pharmacology and 7 th Annual meet of the National Society of Ethnopharmacology	Avinashilingam Institute for Home Science and Higher Education for women, Coimbatore	27 th February to 1 st March 2017
32	Dharani Bangaruswamy, Sivaprabha Jambunathan, Palghat Raghunathan Padma and Sumathi Sundaravadivelu	Anticancer activities of methanolic leaf extract of Prosopis cineraria in breast cancer cell lines	International conference on Herbal and Natural Components as the Future of Pharmacology and 7 th Annual meet of the National Society of Ethnopharmacology	Avinashilingam Institute for Home Science and Higher Education for women, Coimbatore	27 th February to 1 st March 2017
33	Dr.S.Sumathi (Invited speaker)	Targeted Delivery of Baicalein Loaded Iron Oxide Nanoparticles In Triple Negative Breast Cancer Cells (MDA MB 231)	International conference on Herbal and Natural Components as the Future of Pharmacology and 7 th Annual meet of the National Society of Ethnopharmacology	Avinashilingam Institute for Home Science and Higher Education for women, Coimbatore	27 th February to 1 st March 2017
34	S.J.S.Banupriya, K.Kavithaa, P.R.Padma and S.Sumathi	Synthesis, characterization, drug loading and releasing efficiency	International Conference on Environment, Genes, Health and Disease	Bharathiar University, Coimbatore	22 nd to 24 th August 2017

		of thymoquinone loaded Zinc Oxide nanoparticles	2017		
35	Poornima,A, Padma,P.R and Sumathi,S	<i>In silico</i> evaluation of anethole in inhibiting MMPs and EGFR in TNBCs	International Conference on Environment, Genes, Health and Disease 2017	Bharathiar University, Coimbatore	22 nd to 24 th August 2017
36	Sumathi,S , Banupriya.S.J.S Poornima. A, and Padma,P.R	Reverse screening bioinformatics approach to identify potential anti breast cancer targets using thymoquinone from neutraceutical black cumin oil	International Conference on Green agro Biotechnology	University of Brawijaya, Malang	22 nd to 24 th Oct 2017
37	S.J.S.Banupriya V.Akila, Kavithaa.K, P.R.Padma and S.Sumathi	Characterization, antimicrobial and metabolic activity of green and chemically synthesised zinc oxide nanoparticles	Medicinal Plants Research and Translational Trends	Avinashilingam institute for Home Science and Higher education for Women	18 th and 19 th December 2017
38	Chitra.E, Sumathi,S , Banupriya.S.J.S, Poornima.A and Padma.P.R	Cytotoxicity and biocompatibility of commercially available bromelain from <i>Ananas cosmosus</i>	Medicinal Plants Research and Translational Trends	Avinashilingam institute for Home Science and Higher education for Women	18 th and 19 th December 2017
39.	Poornima,A, Muthukumari, Padma,P.R and Sumathi,S	DNA damage induced by anethole and identification of potential targets in triple negative breast cancer cells by in silico approach	Medicinal Plants Research and Translational Trends	Avinashilingam institute for Home Science and Higher education for Women	18 th and 19 th December 2017
40.	Hamsa.D, Padma,P.R and Sumathi,S	Cytotoxic influencing activity of latex of <i>euphorbia</i>	Medicinal Plants Research and Translational Trends	Avinashilingam institute for Home Science and Higher education	18 th and 19 th December 2017

		<i>antiquoram</i> linn		for Women	
41.	Akshaya.R, Durgadevi.B, Krishnapriya.V Sumathi.S and Padma. P.R	Proteomics and drug discovery in Cancer	Current Approaches in Proteomics	Avinashilingam institute for Home Science and Higher education for Women, Coimbatore	20 th December 2017
42.	Dr.S.Sumathi	Participated in Field Emission Scanning Electron Microscope	One Day Training Program on Field Emission Scanning Electron Microscope	Avinashilingam Institute for Home Science and Higher Education for women, Coimbatore	18 th June 2018
43.	Hamsa.D, Krishapriya.V, Padma,P.R and Sumathi,S	Antibiofilm activity and biocompatibility of methanolic leaf extract and commercial compound degalactotigonin from <i>Solanum nigrum</i>	International Conference on Frontiers in Ethnopharmacology and Globalization of Natural Medicine	Bharadhidasan college of Arts and Science, Erode	6 th August, 2018
44.	Poornima,A, Chitra,E,Banupri ya.S.J.S., Padma. P.R. and Sumathi, S	Antimicrobial activity, biocompatibility and cytotoxicity of commercial bromelain from <i>Ananas comosus</i>	International Conference on Frontiers in Ethnopharmacology and Globalization of Natural Medicine	Bharadhidasan college of Arts and Science, Erode	6 th August, 2018

Conferences and Workshops organized

S.no	Name of the Programme	Organiser of the programme	Level: International/ National	Topic	Date
1.	BD FACSOrient – a course in flow cytometry	BD biosciences	National	BD FACSOrient – a course in flow cytometry	5 th – 7 th Dec 2016
2	Basics in animal	Resource	National	Internship on	13 th to 15 th

	tissue culture	person / member of organizing team		Animal Tissue Culture	Feb 2017
3	ICMR sponsored one day National Symposium	Department of Physician assistant	National	Current trends in gynec oncology	23 rd Feb, 2017
4	International conference	Department of Biochemistry, Biotechnology and Bioinformatics	International	Herbal and natural components as the future of pharmacology	27 th to 1 st March, 2017
5	International conference	Department of Biochemistry, Biotechnology and Bioinformatics	International	Targeted delivery of baicalein loaded iron oxide nanoparticles in TNBC cells(MDAMB231)	27 th to 1 st March, 2017
6	One day seminar	Department of Biochemistry, Biotechnology and Bioinformatics	National	Leaps and leverages in life Sciences	15 th March, 2017
7	Resource person and member of organizing team for Internship	Department of Biochemistry, Biotechnology and Bioinformatics	National	Animal tissue culture	2 nd to 16 th June, 2017
8	Basics of Animal Tissue culture	Department of Biochemistry, Biotechnology and Bioinformatics	National	Animal tissue culture	29 th Jan to 2 nd Feb, 2018
9	Basics of Animal Tissue culture	Department of Biochemistry, Biotechnology and Bioinformatics	National	Animal tissue culture	2 nd June to 16 th June
9	Organizer - Basic flow cytometry	Department of Biochemistry, Biotechnology and Bioinformatics	National		21.1.2018 to 27.1.2018
10	Organizer - Advanced flow cytometry	Department of Biochemistry, Biotechnology and Bioinformatics	National		18.4.2018 to 20.4.2018

11	Member of organizing team – Scientific sessions committee	Avinashilingam University	National	MPRTT	18.12.2017 to 19.12.2017
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Membership in National bodies

Life member of SBC

Life member of Society for Ethnopharmacology

Fellow of National Society of Ethnopharmacology

Annual member of Society for Free Radical Research

Achievements

1. Best poster presentation award in International conference on stem cells and cancer research, organized by International institute of information technology,Pune.
2. Content Writer for 8 modules in ePG Pathshala in Food and Nutrition for the paper Nutritional Biochemistry sponsored by INFLIBNET/UGC
3. Recipient of Fellow award from NSE in Feb 2017
4. Executive committee member of NSE

Invited Lectures

1. Delivered a lecture on ‘Tools for Bioinformatics’ in the short-term training program for faculty members on ‘Recent trends in Bioinformatics’ from 7.12.2009 – 12.12.2009, in Rajiv Gandhi Institute of Technology, Kottayam, Kerala
2. Delivered a talk on ‘Bioinformatics’ in the two-day seminar on ‘Bioinformatics’ during 13th and 14th August 2008 in the Centre for Bioinformatics, University of Kerala
3. Delivered a lecture on “ Phytochemical Pharmacy-Healing potential of plants during February 18th & 19th 2014 in Department of Botany, KKTU Govt. college, kodungallur.
4. Delivered a lecture on “Green Pharmacies to treat cancer” in The University of Brawijaya, Malang Indonesia, October 2017

Other relevant information:

1. Doctoral committee member for Periyar University, Bharathiar University and Kongunadu College of Arts and Science
2. NAAC – 2018 Report preparation core Committee member
3. Executive committee member for conferences organized by our Department in our University
4. Member of Board of Studies of the department
5. Member of XII plan monitoring committee from July 2013 to October 2017
6. Member of Curriculum restructuring committee from 15th Feb 2014 to 14th Feb,2017
7. Selected for the finals in ‘Case writing and presentation contest for faculty as a part of Teachers day celebrations’ organized by the confederation of Indian Industry, Coimbatore Zone in September 2014.
8. Member of the organizing committee of the UGC sponsored 3 day workshop on Generation and validation of MCQ’s from July 1-3, 2013.
9. Participated in the ‘National summit on quality in Education’ organized by CII institute of quality from 14th to 15th September 2012 at Infosys Limited , Bangalore