Dr. LUBAINA A S
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Department of Botany
Christian College, Kattakada
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ACADEMIC DETAILS

Course	Duration	University
B. Sc Botany	1992-1995	Kerala University
M. Sc Botany	1995-1997	Kerala University
B Ed Natural Science	1997-98	Kerala University
M. Phil Botany	1999-2001	Kerala University
NET	2003	UGC-CSIR
Ph.D Botany	2009-2015	Kerala University

Research Degree	Title	Date of Award	University
M.Phil	Tissue culture studies in *Plumbago zeylanica* L.	23-04-2001	Kerala University
Ph.D.	Evaluation of tolerance mechanism on plant pathogen interactions in *Sesamum orientale* L. against *Alternaria sesami*	05-05-2015	Kerala University

Details of teaching experience at the college level

Name of College	Designation	Department	Date of actual Joining		Grade
			From	To	
Christian College, Kattakada	Assistant Professor	Botany	25-01-2008	24-01-2013	Assistant Professor AGP 6000
	Assistant Professor	Botany	25-01-2013	24-01-2018	Assistant Professor AGP 7000
	Assistant Professor	Botany	25-01-2018	24-01-2021	Assistant Professor AGP 8000
	Associate Professor	Botany	25-01-2021	24-01-2024	Academic Level 13A

Teaching Experience

Programme	College	Duration
B. Sc Botany	Christian College, Kattakada	**14 years 8 months**
M. Sc Botany	Christian College, Kattakada	**14 years 8 months**

Orientation/Refresher Course attended

Name of the Course /Summer School	Place	Duration	Grade	Sponsoring Agency
"Refresher Course in Life Science"	UGC, HRDC, University of Kerala	22-07-2010 to 11-08-2010	A	UGC
"Special Summer School"	UGC, HRDC, University of Kerala	18-02-2014 to 10-03-2014	A	UGC
"Refresher Course in Environmental Science"	UGC, HRDC, University of Kerala	02-02-2017 to 22-02-2017	A	UGC
Short Term Course in Disaster Management	UGC, HRDC, University of Kerala	18-07-2018 to 25-07-2018	A	UGC
Short Term Course in Women Empowerment	UGC, HRDC, University of Kerala	19-12-2018 to 27-12-2018	A	UGC

AREA OF ACADEMIC INTERESTS

Biochemistry and Molecular Biology

DUTY IN ACADEMIC BODIES

- Kerala Academy of Science – Life Member
- Eco Club – Convenor, CCK
- IQAC Member, CCK

- Research Development Cell – Convenor, CCK
- Internal Complaints Committee - Convenor, CCK

RESEARCH EXPERIENCE

Designation : Research Guideship in Botany from University of Kerala
Research Centre : P G & Research Dept. of Botany, M G College, Thiruvananthapuram
Order No- (Ac. EVI(1)/24447/2016 dt 26-09-2016

Facility Centre changed to

P G & Research Dept. of Botany, Christian College, Kattakada
Order No. AcEVI 1481/2020/UOK dt. 29-05-2020

List of guiding Ph.D students

Sl.No	Name of Student	Date of Registration	U.O granting Registration
01	Sumayya S S	11/07/2019	AcEVI/(3)/11042/2019 – A**warded**
02	Arathy R H	29-05-2018	AcEVI/(1)/118/BOT/16923/2018
03	Shalaj R	06-07-2018	AcEVI/(1)/118/BOT/16727/2018
04	Roshni A S	11-09-2020	AcEVI/(5)/120/BOT/21989/2020
05	Chandini C L	D C over	

Details of Major Research Project sanctioned from National Agency.

Sl.No	Name of the project and order number	Funding Agency	Amount sanctioned & utilized	Remarks
01	Utilization of pine apple rind as source for phytochemicals and its biological potentialities Council (P) Order No. 355/2018/KSCSTE dated 14-08-2018	Kerala State Council for Science Technology & Environment, Govt. of Kerala	Rs. 13,83,800/-	Final report submitted

BOOK CHAPTERS

- Title - Biochemical characterization of oxidative burst during interaction between sesame (*Sesamum indicum* L.) in response to *Alternaria sesami.*
  Name of the Book- **Prospects in Bioscience: Addressing the issues**
  Publisher-- **Springer,** 2013, pp.243-250
  Editors- A Sabu & A Augustine

PUBLICATIONS

Sl. No	
1	**A S Lubaina & K Murugan**, Ultrastructural changes and oxidative stress markers in wild and cultivar *Sesamum orientale* L. following *Alternaria sesami* (Kawamura) Mohanty and Behera. inoculation, **Indian Journal of Experimental Biology.** Vol. 51, August 2013, pp. 670-680
2	**A S Lubaina and K. Murugan**, Characterization of sesame (*Sesamum orientale* L.) accessions from Kerala on the basis of oil content, hypersensitive response and molecular polymorphism. **Phytomorphology,** 63, 2013, 143-151.
3	**Lubaina.A.S, Nair G M and Murugan K.** Shoot multiplication and direct organogenesis of an important medicinal plant *Plumbago zeylanica* Linn. (Plumbaginaceae). **Journal of Research in Biology** 2011, 1(6): 424-428.
4	**Lubaina A.S**., **MuruganK.** *Mikania scandens* (L.) Willd.- a plant based fungicide against Alternaria leaf spot disease in *Sesamum orientale* L. : some observations **International Journal of Current Research Review,** 2013 05 (20) 22-31.
5	**Abdulhadeef Shereefa Lubaina, Kumaraswamy Murugan.**Induced systemic resistance with aqueous extract of *Mikania scandens*(L.) Willd. against *Alternaria sesami* (Kawamura) Mohanty & Behera in *Sesamum orientale* L. **Journal of crop science and Biotechnology, Springer.** 2013 16(4) 269-276.
6	**Lubaina, A.S. and Murugan K** Physiological and Biochemical Characterization of *Sennaalata* (L.) Roxb. leaf extract - a plant based fungicide against sesame leaf spot. **World journal of pharmacy and pharmaceutical sciences,** 2013, 2(6): 5790-5801
7	**A S Lubaina and K. Murugan**, Cell wall changes and H^+ATPase activity on the infection process of *Alternaria sesami* in *Sesamum indicum* L., **Journal of phytological research**, 2012, 25(1) : 39-45
8	**A S Lubainaand K. Murugan**, Fourier Transform – Infrared (FTIR) Spectral Signatures of *Sesamum orientale* L. Leaves for the early Detection and Differentiation of Alternaria Leaf Spot Disease. **Journal of phytologcal research**, 2012, 25(2) : 241-247
9	**Lubaina Abdulhadeef Shereefa**, **Murugan Kumaraswamy**,Reactive oxygen species and ascorbate-glutathione interplay in signaling and stress responses in *Sesamum orientale* L. against *Alternaria sesami* (Kawamura) Mohanty and Behera. **Journal of the Saudi Society of Agricultural Sciences, Elsevier.** 2016, 15, 48-56
10	**Lubaina AS, Pradeep DP, Aswathy JM, Remya Krishnan, Meenu Krishnan VG and Murugan K**, Traditional knowledge of medicinal bryophytes by the Kani tribes of Agasthiyarmalai biosphere reserve, Southern Western Ghats, **Indo American Journal of pharmaceutical research,** 2014, 4(4): 2116-2121

11	**Lubaina AS**, **Pradeep DP, Meenu Krishnan, Aswathy JM,Remya Krishnanand Murugan K,** Evaluation of microbicidal potentiality of essential oil from *Artemisia nilagirica* and *A. japonica,* **Indo American Journal of Pharmaceutical Research,** 2014, 4(4): 2050- 2056
12	**Lubaina, A.S,Murugan K** Effect of growth regulators in callus induction, plumbagin content and indirect organogenesis in Plumbago zeylanica. **International Journal of Pharmacy and Pharmaceutical Sciences.** 4(1) 2012, 334-336.
13	**Lubaina A . S , Meenu Krishnan V. G . and Murugan K.** Induction of oxidative stress and antioxidative response mechanisms in *Octoblepharum albidum* Hedw. a bryophyte under desiccation – rehydration stress. **Indian Journal of Plant Sciences.** 2013 2(3) 12-22.
14	**Meenu Krishnan VG, Pradeep DP, Aswathy JM, Remya Krishnan, Lubaina AS and Murugan K,** Wonder herbals- bryophytes, of the Ponmudi hills, of Southern Western Ghats: Window into the need for Conservation, **World journal of pharmacy and pharmaceutical sciences,** 2014, 3(4)
15	**K Murugan, G S Manoj, V S Anil Kumar, A S Lubaina and Remya Krishnan**, Bryophytes: secondary metabolite diversity a potent Source of drugs for future -A review **Journal of phytologcal research**, 2012, 25(1) : 7-14
16	Aswathy JM, Meenu Krishnan VG, **Lubaina AS,** Pradeep DP, Remya Krishnan and Murugan K, Anatomical, Biochemical and IR Polymorphism among *Senna Occidentalis* L. Accessions a Medicinal Herb from Thiruvananthapuram District, Kerala, **Indo American Journal of Pharmaceutical Research,** 2014 ,4(4): 1756-1764
17	**Sunukumar SS, Harish SR, Manoj GS, Sreelekshmi SG, Remya Krishnan, Lubaina AS and Murugan K,** Ameliorative effect by calcium on NaCl salinity stress related to reactive oxygen species metabolism in *Amaranthus tricolor* L., **Journal of Research in Biology**, 2011, 1(6): 411-418
18	**Pradeep D.P, Meenu Krishnan V.G, Lubaina A.S, Remya Krishnan & Murugan K** Comparison Of Essential Oils Composition And Antioxidant Activities Of *Artemisia Japonica* Thunb. And *A. Nilagirica*(Clarke) Pamp. **Indo American Journal of Pharmaceutical Research** 2014, 4(1): 832-837
19	**Meenu Krishnan VG, Lubaina AS, Aswathy JM, Pradeep DP, Remya Krishnan, Manoj GS, Sunu Kumar SS & Murugan K.***Tylophora subramanii* Henry.an endemic medicinal herb - a source of potential antioxidant. **Indo American Journal of Pharmaceutical Research,** 2014 ,4(3): 1647-1651.
20	**Pradeep DP, Meenu Krishnan VG, Aswathy JM, Greeshma M, Greeshma GM,, Remya Krishnan, Lubaina AS & Murugan K**. Interaction between hemiparasitic *Dendrophthoefalcata* (L.) Etting. On *Mangifera indica* Linn.- some observation. **World journal of pharmacy and pharmaceutical sciences,** 2014, 3(6): 585-607.
21	**A. S. Lubaina and K. Murugan**. Evaluation of biological efficacy of Trichoderma species isolates against alternaria leaf spot disease of sesame.**International Journal of Applied Biology and Pharmaceutical Technology,** 2015, 6(1): 17-24.
22	**Lubaina AS, Soumya R. Raj, Brijithlal ND & Murugan K**. Phytochemical analysis and bactericidal potentiality of *Pogonatum microstomum* schw. **World journal of pharmaceutical research,** 2015, 4(10): 1692-1704.
23	**Lubaina A.S, Jyothi Lekshmi G, Brijithlal ND, Murugan K** .Screening of

	Phytochemicals and its Antioxidant Potentialities from Pallavicinia lyelli- A Thalloid Liverwort. **International Journal of Pharmaceutical Sciences Review and Research,** 2015, 35(2), 134-139.
24	**Lubaina AS, Brijithlal ND & Murugan K.** Phytochemical analysis and antioxidant potentiality of *Premna serratifolia* l. - an aromatic medicinal plant **World journal of pharmaceutical research**, 2016, 5(12): 841-852.
25	**Lubaina AS, Brijithlal ND & Murugan K**. Unravelling desiccation and rehydration tolerance mechanism in the fern, *Adiantum latifolium*. **Biosci. Biotech. Res. Comm**. 2016, 9(4): 672-679.
26	**A. S. Lubaina and G. S. Reshma,** Potential of Pineapple Peel as Natural Resource of Antioxidants, **Trends in Biosciences** 11(7), Print : ISSN 0974-8431, 1288-1293, 2018.
27	**A.S. Lubaina, Murugan. K.** Evaluation of Biochemical Changes and its Mitigation in Sesame- Alternaria Interaction, **Trends in Biosciences** 11(7), Print : ISSN 0974-8431, 1528-1534, 2018.
28	**A. S. Lubaina , K. Murugan ,** Water fern induced mitogen-activated protein kinase signalling in *Sesamum orientale* L. var. involved in systemic resistance against thilarani Altertnaria leaf spot disease. **Asian Journal of Pharmacy and Pharmacology** 2019; 5(2):393-400.
29	**A. S. Lubaina, R. K. Lija and Raju Antony,** Floristic Studies on Ferns and Lycophytes of Neyyattinkara Muncipality, Thiruvananthapuram District. **Indian Fern Journal**. 36 : 297-307 (2019).
30	**A. S. Lubaina , P. R. Renjith , Praveen Kumar,** Antibacterial potential of different extracts of pineapple peel against gram-positive and gram-negative bacterial strains, **Asian Journal of Pharmacy and Pharmacology** 2019; 5(S1):66-70.
31	**A.S. Lubaina, P.R. Renjith and K.V. Dinesh Babu,** Phytochemical Analysis and FT-IR Fingerprinting of Pineapple Peel-A Natural Resource of Bioactive Compounds, **International Journal of Pharmacy and Biological Sciences-IJPBSTM** (2019) 9 (3): 1229-1237.
32	**Lubaina Abdulhadeef Shereefa and Kumaraswamy Murugan,** Biological Control Mechanism of *Alternaria* Leaf Spot Disease in *Sesamum orientale* L. Challenged with *Pseudomonas fluorescens*. **Journal of Advanced Scientific Research,** 2020;11 (5): 17-21
33	S S Sumayya, **A S Lubaina** and K Murugan, Phytochemical, HPLC and FTIR Analysis of Methanolic Extract from *Gracilaria dura*(C Agardh) J Agardh. **Journal of Drug Delivery & Therapeutics.** 2020; 10(3):114-118.
34	**A. S. Lubaina*,** P. R. Renjith, A. S Roshni**,** Identification and Quantification of Polyphenols from Pineapple Peel by High Performance Liquid Chromatography Analysis, **Advances in Zoology and Botany**.2020, 8(5): 431-438.
35	Manoj GS, Greeshma GM, Pradeep D P, Arathy R, Remya Krishnan, Bosco Lawarence, Sumayya SS, Jayakumar K, Saiaba A N, **Lubaina A S,** Chithra Vijayan, Dinesh Babu KV, Sunila AV, Anil Kumar VS,Greeshma Murukan, Meenu Krishnan VG, Aswathy JM, Sunu Kumar SS and Murugan K*Secondary Metabolites and their Antioxidant Activities: An Overview **EC Pharmacology and Toxicology** 8.10 (2020): 64-75.

36	Sumayya S S **Lubaina A.S ,** Murugan. K**.** Enzymes associated with anti-inflammatory potentialities of purified terpenoid extracts from the selected sea weeds **International Journal of Ayurvedic Medicine**, Print : ISSN 0976-5921,Vol 11 (3), 497-505,2020.
37	S. S. Sumayya, A. S. **Lubaina and** K Murugan. Comparison of Anti-inflammatory, Analgesic, Antipyretic Properties of Selected Red algae - *Hypnea musciformis* (Wulfen) J V Lamouroux., *Gracilaria dura* (C Agardh) J Agardh. and *Kappaphycus alvarezii* (Doty) Doty ex Silva **International Journal of Pharmaceutical Sciences and Nanotechnology –IJPSN,** Print ISSN :0974-3278 ,Vol 13 No 5 , 5110-5119,2020.
38	Sabira Siraj Sumayya, **Abdulhadeef Shereefa Lubaina**, Kumaraswamy Murugan, Screening of In vitro Antiviral Activity of Purified Terpenoid Extracts of Selected Seaweeds against Chikungunya Virus. International Journal of Pharmaceutical Sciences and Drug Research 2020;12(4):1-5
39	Krishna Murugan, Paul Raj L. S. & **Lubaina A. S***. Floristic enumeration of the dicotyledonous plants in Vellayanilake area, Thiruvananthapuram district, Kerala Abrahamia- An International Journal of Plant Sciences, 6 (1) 2020, 26-36.
40	**Lubaina A.S,** Renjith P.R, Ananthakrishnan R, Ragesh R Nair. Isolation of Ferulic Acid - A Bioactive Phenolic Compound from Pineapple Peel and Evaluation of its *In-vitro* Anti-inflammatory Potential, International Journal of Pharmaceutical Sciences and Drug Research, 13, 2021, 565-573.
41	**Lubaina A.S,** Renjith P.R, Praveen Kumar. Evaluation of anti-bacterial and anti-fungal activity of ferulic acid-An isolated phenolic compound from pineapple peel, International Journal of Botany Studies, 7, 2022, 341-345.

INVITED LECTURE

- *Title*– ***Water and Jobs***
  Name of Seminar – Spectrum -2015 (26th February- 12th March, 2015)
  Organized by S N College, Chempazhanthy, Golden Jubilee Seminar Series.

- *Title*– ***Plastic Pollution***,
  Extension Activity organized by the Dept. of History, Christian College, Kattakada. on 17-03-2017.

- *Title* - **Plastic : One of the worst contaminants of the environment & a health hazard**
  National seminar sponsored by KSCSTE on World Environmental Day in the Dept. of Chemistry Sree Narayana College, Varkala, on 5-6-2018.

MEMBER IN JUDGING PANEL

- National seminar on Insight into the Interdisciplinary Perspectives of Chemical and Biosciences organized by the Govt. Arts College, Thiruvananthapuram - Evaluated the presentations on February 2018
- Plant exhibited at VASANTHOLSAVAM 2019 at Kanakakunnu Palace Ground organized by KSCSTE, Dept. of Agricuture and District Tourism Promotion Council on January 2019 – Evaluated the flowers.
- International seminar on "Life Science for Sustainable Development : Issues and Challenges" organized by the Dept. of Botany, University of Kerala on October 2019 –Evaluated the presentations

LIST OF PAPER PRESENTATIONS

Sl. no	Seminar	Title of Paper	Year
1	24th Kerala Science Congress	Ultrastructural and antioxidative enzyme responses of *Sesamum indicum* L. infected with *Alternaria sesame*	2012 (January)
2	International conference on advances in biological sciences	Biochemical characterization of oxidative burst during interaction between sesame (*Sesamum indicum* L.) in response to *Alternaria sesame*	2012 (March)
3	International conference on World Bioheritage concerns over Climate change, with a special reference to Ethnic Vegetables	Characterization of sesame (*Sesamum indicum* L.) accessions from Kerala on the basis of oil content, hypersensitive response and molecular polymorphism.	2012 (September)
4	22nd Swadesi Science Congress	Evaluation of cell wall constituents,K^+ Effiux and H^+ ATP ase activity in *Sesamum indicum* L. against *Alternaria sesame*	2012 (November)
5	National symposium for crop productivity, food safety and environmental sustainability by Society for Applied Biotechnology **BEST PAPER AWARD**	Reactive oxygen species and ascorbate-glutathione interplay in signalling and stress responses in *Sesamum orientale* L. against *Alternaria sesam*i (Kawamura) Mohanty and Behera.	2012 (November)
6	National Conference on Recent Trends in Molecular Biology	Biological Control of *Alternaria* disease of sesame by *Trichoderma harzianum*: some observations.	2012 (December)
7	Regional science congress on Science for shapping the	Efficacy of *Mikania scandens (L.)*extracts *as* Biological Control	2012 (December)

	future of India	against *Alternaria sesami* inciting leaf spot disease in *Sesamum orientale* L.	
8	25th Kerala science congress	Induction of Resistance in host against the infection of leaf spot pathogen (*A. sesami*)in Sesame,	2013 (January)
9	8th National seminar on medicinal plants	Phenolic acids act as signaling molecules in *Sesamum orientale* L. against *Alternaria sesami* interaction - some observations	2013 (March)
10	International conference on Biotechnology Bioinformatics and Bioengineering genomics, medicinal plants and microbes	Responses to desiccation- rehydration stress in activities and isozymes of antioxidant enzymes in *Octoblepharum albidum* Hedw. NaCl stress mitigation by Calcium chloride in *Amaranths tricolor* L.	2013 (June)
11	International Conference on Ecosystem Conservation, Climate change and Sustainable Development	Efficacy of *Senna alata* (L.) Roxb. leaf extracts as plant based fungicide against *Alternaria sesami* inciting sesame leaf spot	2013 (October)
12	23rd Swadeshi Science Congress	Field evaluation - a predictive model for Alternaria leaf spot disease management in *Sesamum orientale* L. using *Mikania scandens* leaf extract and *Pseudomonas fluorescence.*	2013 (November)
13	26th Kerala science congress	Induction of mapk-4 signalling pathway in *Sesamum orientale* L. (Thilarani) treated with water fern against *Altertnaria* leaf spot disease.	2014 (January)
14	National seminar on insight into recent trends in biological science and technology	*Sesamum orientale* L. - *Alternaria sesami* interplay and evaluation of plant based and bio control measures under pot and field conditions	2015 (September)
15	National Seminar on Technical Advancements in Life Science	Bactericidal Potentiality And Phytochemical Analysis of a Moss *Pogonatum microstomum* Schw.	2015 (December)
16	28th Kerala Science Congress	Oxidative stress markers and ultrastructural changes in sesame - Alternaria interaction and evaluation of eco-friendly control measures against Alternaria leaf spot disease	2016 (January)
17	International Seminar on Frontiers in Genomics and Molecular Techniques	Insight of oxidative burst and its mitigation in Sesame- Alternaria interaction	2017 (March)
18	4th Indian Biodiversity	Mitogen-Activated Protein Kinase	2017

	Congress	signalling pathway using aqueous extract of *Salvinia molesta* against Alternaria Leaf Spot Disease in sesame	(March)
19	National Seminar on Rescue and restoration of selected RET medicinal plants of Western Ghats	Phytochemical analysis of an aromatic medicinal plant – *Premna serratifolia* L.	2017 (March)
20	Indian Science Congress Association (ISCA) sponsored National level conference on Reaching the Unreached Through Science and Technology	Extraction and application of eco-friendly natural dye obtained from barks of *Acacia catechu* Willd. (Mimosaceae) on cotton fabric	2017 (October)
21	National seminar on Conservation of Wetland Ecosystems, for long term Ecological security, S N Kollam	Evaluation of Dessication and Rehydration Tolerance Mechanism in *Adiantum latiolium* Lam.	2018 (January)
22	National seminar on Insight into the Interdisciplinary Perspectives of Chemical and Biosciences	Evaluation of Biochemical Changes and its Mitigation in Sesame-Alternaria Interaction,	2018 (February)
23	International seminar on Phytochemistry-2018	Phytochemical analysis and antioxidant potentialities of pineapple peel	2018 (March)
24	National seminar on Climatic vagaries and biodiversity : issues contemporary and futuristic	Electron microscopic and biochemical studies during Sesame Alternaria interaction	2018 (September)
26	31st Kerala Science Congress	Evaluation Of Ros Cycle And Tolerance Mechanism In *Sesamum Orientale* L.Against Alternaria Sesami	2019 (February)
27	International Conference ICABS-19 on Advances in Biosciences	Extraction of natural dyes from Justicia adatoda L. and Camellia sinensis L. kuntze and its application on cotton and wool fabrics	2019 (February)
28	National seminar on Emerging Trends in Quality Education : The Role of Iqac in Governance, Leadership & Management	Role of NAAC accreditation in ensuring the quality of higher education	2019 (July)
29	International Seminar on supra and nano chemistry of bioactive molecules– 2019	The phenolic profiling of petroleum ether, ethanol and water extracts of pineapple rind	2019 (August)

	organized by the Dept. ofChemistry, Christian College,Kattakada supported by KSCSTE		
30	International Seminar on Life Sciences for sustainable development: Issues and challenges organized by the Dept. Of Botany, University College, TVM supported by the Directorate of Collegiate Education, Govt. of Kerala	Evaluation of bio-chemicals from pineapple waste – a method for eco friendly waste management.	2019 (October)
32	National Seminar on Current Trends and Advances in Biological Sciences (CTAB-2020)	Microbicidal potential of different extracts of pineapple peel against Gram positive and Gram negative bacterial strains	2020 (February)
33	International Virtual Conference On Vistas In Plant Science Research For Human Welfare	Purification and Characterization of Bio Active Phenolic Compound from Pineapple Peel – A Successful Waste Management	2020 (August)
34	National Conference RICERCA 2021, organized by IQAC & Research Committee, St. Joseph's College for Women, Alappuzha	Evaluation of *in-vitro* anti-inflammatory potential of ferulic acid – a bioactive phenolic compound from pineapple waste **EXCELSIOR AWARD**	October 2021

LIST OF PARTICIPATION IN SEMINAR/ WORKSHOP

SI. no	Seminar	Remarks	Year
1	One Day Seminar on "The Current IPR Regime" organized by the PG Dept. of Botany, Christian College, Kattakada	State	2008 (November)
2	Seminar on "Climate Change" organized by the PG Dept. of Botany, Christian College, Kattakada,	National	2009 (February)

3	Seminar on "World Environment Day Celebrations" organized by the PG Dept. of Botany, Christian College, Kattakada	State	2009 (June)
4	National Workshop on "Intellectual Property Rights in Knowledge Economy" organized by KSCSTE,	National	2009 (June)
5	World Environment Day 2009 organized by KSCSTE, Trivandrum	State	2009 (June)
6	Two day National Workshop on "Learner Autonomy Enhancing Quality in Higher Education" organized by Christian College, Kattakada,	National	2009 (July)
7	One day Orientation Programme on the regulations of CBCSS	State	2009 (December)
8	Seminar on "National Science Day Celebrations" organized by the PG Dept. of Botany, Christian College, Kattakada,.	State	2010 (February)
9	National Symposium on Plant Diversity, Utilization and Management organized by the Dept. of Botany, University of Kerala	National	2010 (May)
10	Seminar on World Environment Day Celebrations organized by the PG Dept. of Botany, Christian College, Kattakada,	State	2010 (June)
11	UGC sponsored National seminar on "	National	2010 (September)

	Bioremediation its relevance in the present Scenario" organized by the Dept. of Botany, HHMSPBNSS College for Women, Neeramankara , Trivandrum		
12	National Seminar on "Frontier Areas of Life Science" organized by Dept. of Botany, University college, Trivandrum	National	2012 (March)
13	22nd Swadeshi Science Congress at CPCRI, Kasargod	State	2012 (November)
14	National Seminar on "Advances in Biological Science" organized by Dept. of Botany, Govt. College, Vidyanagar, Kasargod	National	2012 (December)
15	Seminar on "Insight in Plant Science" organized by Dept. of Botany, Govt. College for Women, Trivandrum	State level	2013 (January)
16	One day Seminar on Methodology and Perspectives in Plant Science organized by Dept. of Botany, University college, Trivandrum	State level	2013 (February)
17	National Seminar on Biodiversity Conservation and Challenges organized by Dept. of Botany, Govt. College for Women, Trivandrum	National	2013 (November)
18	National seminar on Safety and Efficacy of Herbo –Mineral	National	2014 (January)

	Formulations of Siddha (SEHFS-2014)organized by Siddha Regional Institute, Trivandrum		
19	National seminar on Contemporary Techniques in Environmental Research and Conservation(CTERC-2014) organized by P G Dept.of Environmental Sciences, All Saints College, Trivandrum	National	2014 (March)
20	National Symposium on Cultural Land Scape Indigenous Knowledge And Biotechnological Tools For Biodiversity Conservation organized by Kongunadu Arts and Science College, Coimbatore	National	2014 (March)
21	Three days Workshop on Molecular Biology 2015 organized by Dept. of Botany, University college, Trivandrum	State level	2015 (January)
22	Two day National seminar on Cryptogams Biodiversity: Prospectives and Problems organized by the Dept. of Botany, Govt. College for Women, Trivandrum	National	2015 (February)
23	National seminar on Current Vistas in Cell and Molecular Biology organized by Dept. of Botany, University of Kerala and KUBBA	National	2015 (March)
24	World Environment	State level	2015

	Day Celebrations organized by Dept. of Botany, Christian College, Kattakada		(June)
25	National seminar on Advancement of Biosystematics on Biodiversity Conservation organized by Dept. of Botany, S N College, Varkala	National	2015 (October)
26	World Wetland Day Celebrations-2016 organized by Dept. of Botany, Christian College, Kattakada	State level	2016 (February)
27	Seminar on World Water Day 2016 organized by ENVIS, KSCSTE, Trivandrum	State level	2016 (March)
28	World Environment Day Celebrations-2016 organized by Dept. of Botany, Christian College, Kattakada	State level	2016 (June)
29	International Seminar on State of the Art of Instrumental Techniques in Compound Analysis SITCA-2016 organized by Dept. of Chemistry, Christian College, Kattakada.	International	2016 (July)
30	Seminar on In Pursuit of Excellence in Science – Success and Accolades organized by Kerala Academy of Science & KSCSTE, Trivandrum	State level	2016 (December)
31	One Day Training Programme on Environment Management organized by ENVIS	State level	2017 (January)

	in KSCSTE, Trivandrum		
32	On Hand Training on Western Blotting and its Applications in Protein Research organized by Dept. of Botany and Biotechnology, Govt. Arts College, Trivandrum	State level	2017 (October)
33	Two day National seminar on The Impacts of Climate Change on Natural Resources organized by Dept. of Botany, Baby John Memorial Govt. College, Chavara, Kollam	National	2017 (November)
34	National seminar on Plant Taxonomy- A Tool for Biodiversity Conservation organized by Dept. of Botany, University College, Trivandrum	National	2017 (December)
35	National seminar on Meeting Sustainability Challenges Through Renewable Energy organized by Kerala ENVIS Hub, KSCSTE & TERI ENVIS , Delhi	National	2017 (December)
36	National seminar on Insight into the Interdisciplinary Perspectives of Chemical and Biosciences organized by Dept. of Chemistry, Botany and Biotechnology, Govt. Arts College, Tvpm -	National	2018 (February)
37	One Day Seminar on World Wetland Day	State	2018 (February)

	celebration organized by the PG Dept. of Botany, Christian College, Kattakada		
38	National Festia, Asthra 2018, organized by Dept. of Physics, Christian College, Kattakada, Tvpm	National	2018 (March)
39	One Day Seminar on Nipah Virus Outbreak in Kerala – The Lesson Learned organized by Kerala Academy of Sciences.	State	2018 (July)
40	National Seminar on Plant Diversity Conservation And Bioprospecting In Western Ghats organized by Dept. of Botany, Government College, Kasaragod	National	2018 (September)
41	One day Workshop on Digital Photography and Animation organized by Department of Botany , University of Kerala.	State	2018 (October)
42	National Workshop on Real Time PCR and Western Blotting organized by the PG Dept. of Botany and Research Centre, Govt. College for Women.	National	2018 (November)
43	Science Academics Lecture Workshop on Taxonomy and Conservation of Plant Diversity organized at JNTBGRI Palode	State	2019 (January)

45	National seminar on Biomedical Research : Changing Paradigms Across Time organized by Dept. of Biochemistry , Govt. College Kariavattom, Trivandrum	National	2019 (February)
46	One day Seminar on World Wetland Day 2019 organized by Dept. of Zoology, Christian College, Kattakada	State	2019 (February)
47	31st Kerala Science Congress organized at Fatima Mata National College Kollam	State	2019 (February)
48	National Level Training Programme on Plant taxonomy & Biodiversity organized by CISSA	National	2019 (July)
49	National Seminar on "Plant Systematics : Current Scenario and Future Prospects" organized by Dept. of Botany, Sree NeelakantaGovernment Sanskrit College, Pattambi, Palakkad	National	2019 (October)
50	National Seminar on "Bioprospecting of Plants-Current Scenario"organized by Dept. of Botany, Government College, Kasaragod	National	2019 (December)

ACHIEVEMENTS

- **BEST PAPER AWARD** in the National symposium for crop productivity, food safety and environmental sustainability organized by Society for Applied Biotechnology on

November 2012

- **EXCELSIOR AWARD** in the National Conference RICERCA 2021, organized by IQAC & Research Committee St. Joseph's College for Women, Alappuzha in collaboration with Society of Biotechnologists, India

PERSONAL DETAILS

Sex	**:** Female
Status	**:** Married
Address	**:** Hill View, Near Mass Auditorium, Vembayam P O-695615.
Nationality	**: I**ndian
Date of Birth	**:** 21.05.1975
Current Location	**:** Vembayam, Thiruvananthapuram, Kerala
Name of Spouse	**:** Dr.Nizam A H
Languages known	**:**Malayalam, English
Hobbies	**:** Listening Music, Reading, and Gardening