

Curriculum vitae

Name : **Dr. K.R.Kavitha**
Designation : Assistant Professor of Botany
Institution : Sree Narayana College, Sivagiri, Varkala,
Sreenivasapuram
(P.O), Thiruvananthapuram, Pin-695145,
Kerala.
Area of specialization : Cytology
Date of Birth : 18-05-1971
Date of appointment : 01-12-2004
Teaching experience : **13 Years**
Mobile No : 9446546770
e-mail id : drkavithakr@gmail.com

Educational qualifications

Name of Exam	Board/University	Year	Subjects	%
r DNA Technology	Kerala University	2004	Biotechnology	A Grade
Advanced Diploma in Biotechnology	Kerala University	2004	Biotechnology	83.0%
B.Ed	Kerala University	2004	Natural Science	76.3%
Ph.D	Annamali University	1999	Botany	Awarded
M.Phil.	Annamali University	1996	Botany	73.2%
M.Sc.	Annamali University	1994	Botany	72.4 %
B.Sc.	Kerala University	1991	Botany	63.6%

Titles of theses submitted

M.Phil.	Effect of Heavy Metal Cadmium on the Somatic Chromosomes of <i>Haemanthus multiflorus</i> Martin.
Ph.D	Cytotaxonomical studies on some varieties of <i>Manihot esculenta</i> Crantz

Research area : Cytology & Irradiation studies

Research achievements

Completed Major research project

Title of the Project	:	Utilization of Low cost Natural products through electron beam induced polymerization techniques.
Sponsoring Agency	:	BRNS – Department of Atomic Energy
Amount Granted	:	Rs. 20,37,650 /-

Books published: One

1. Devipriya V, Regy Yohannan, **Kavitha KR**, Suma BS & Thulaseedharan L. **2016**. *The Campus Flora of Sree Narayana College Chempazhanthy*. **DC Books, Kottayam. ISBN – 978-93-84786-90-8.**

Other Books Edited: One

1. **Editor of the Proceedings** released in connection with the Annual Multidisciplinary Seminar Series “**Spectrum-2015**” organized by SN College, Chempazhanthy, Trivandrum, Kerala from 26th February– 12th March 2015 **Editor of the Proceedings** released in connection with the Annual Multidisciplinary Seminar Series “**Spectrum-2015**” organized by SN College, Chempazhanthy, Trivandrum, Kerala, from 26th February– 12th March 2015.

Participation in International Symposia/ Seminars- Two

1. International Conference on Global Warming, Climate Change, Sustainable Development and Specular Spirituality by Santhigiri Research Foundation in association with UNESCO, TERI and American Center from 9th to 11th September **2010**.
2. International Seminar on World Bioheritage Concerns over Climate Change, with a Special Reference to Ethnic Vegetables at Sree Narayana college, Chempazhanthy, Thiruvananthapuram from 07-09-2012 to 08-09-2012. 21 November **2012**.

Participation in National Symposia/ Seminars-

1. XV Swadeshi Science Congress held at Thalassery, Kerala, jointly organized by Swadeshi Science Movement & Govt. Brennen College from 5th to 7th November, **2005**.

2. National Seminar on Coastal Wetland Ecosystems of Kerala: Perspectives and Conservational Strategies sponsored by UGC and Kerala State Council of Science, Technology and Environment, Govt. of Kerala held at Department of Botany, Sree Narayana College, Chempazhanthy at 16th & 17th October **2008**.
3. National Seminar on Recent Trends in Biodiversity Conservation and Documentation, sponsored by Department of Science & Technology, Govt. of India, organized by Post Graduate Dept. of Plant Science, Mahatma Gandhi Govt. Arts College, Mahe, Union Territory of Pondicherry at 6th & 7th November **2008**.
4. National Seminar sponsored by UGC, New Delhi, organized by Sree Narayana College, Sivagiri, Varkala on 6th & 7th August **2008**.
5. National Seminar on Advances in Biochemistry in Health and Disease, organized by the Dept. of Biochemistry, Govt. College, Kariavattom, sponsored by the Dept. of Collegiate Education, Govt. of Kerala on 24th to 25th February **2010**.
6. 1st Women's Science Congress sponsored by Shakti, a National Movement for Women held at St. Teresa's College, Ernakulam on 10th to 12th August **2010**.
7. 1st Indian Biodiversity Congress, sponsored by Centre for Innovation in Science & Social action, Kerala State Biodiversity Board, National Biodiversity Authority, University of Kerala & Navadanya held at Chandrasekharan Nair stadium, Thiruvananthapuram, on 28th to 30th December **2010**.
8. 23rd Kerala Science Congress, sponsored by Kerala State council for Science, Technology and Environment, held at Centre for Earth Science Studies, Akkulam, Thiruvananthapuram on 29th to 31st January **2011**.
9. 11th All India Conference on Cytology and Genetics, organized by the Dept. of Molecular Biology, Bangalore University, Bangalore, sponsored by Society of Cytologists and Geneticists, India, on 23rd to 25th January **2012**.
10. 24th Kerala Science Congress, sponsored by Kerala State council for Science, Technology and Environment, held at the Rubber Research Institute of India, Rubber Board, Kottayam, Kerala on 29th to 31st January, **2012**.
11. National Seminar on Recent Trends and Future Prospects of Biodiversity and Conservation "Biofest", sponsored by Kerala State council for Science, Technology and Environment, Department of Environment and National Horticultural Mission, organized by Dept. of Botany and Zoology, Sree Narayana College, Punalur, Kerala on 15th to 16th March, **2012**.
12. National Seminar on Biodiversity- It's Conservation for sustainable Future, organized by Dept. of Botany and Zoology, St. Thomas College, Ranni, Kerala sponsored by UGC in collaboration with Tropical Institute of Ecological Sciences, Kottayam on 27th to 28th March, **2012**.
13. National Conference on Recent Trends in Plant Biotechnology, organized by Dept. of Plant Science, School of Life Sciences, Bharathidasan University, Tiruchirappalli, Tamilnadu on 27th to 28th February, **2013**.

14. National Seminar on Socio-Economic Root Causes of Biodiversity Loss, sponsored by the UGC and Kerala Sasthra Sahithya Parishath on 24th to 25th January **2014**.

Paper Presentations

Papers presented in International symposia/seminars – One

1. International Seminar on World Bioheritage Concerns over Climate Change, with a Special Reference to Ethnic Vegetables at Sree Narayana college, Chempazhanthy, Thiruvananthapuram from 07-09-2012 to 08-09-2012. 21 November **2012**.

Papers presented in National symposia/seminars - Five

1. National Seminar on Socio-economic Root Causes of Biodiversity Loss at Sree Narayana College, Kannur from 24-01-2014 to 25-01-**2014**.
2. National Seminar on Recent Trends in Plant Biotechnology at Bharathidasan University, Thiruchirappalli from 27-02-2013 to 28-02-**2013**.
3. National Seminar on Biodiversity at St. Thomas College, Ranni from 27-03-2012 to 28-03-**2012**.
4. National Seminar on Recent Trends and Future Prospects of Biodiversity and Conservation at Sree Narayana College, Punalur from 15-03-2012 to 16-03-**2012**.
5. Eleventh All India Conference on Cytology and Genetics at Bangalore University from 23-01-2012 to 25-01-**2012**.

Papers presented in State-level symposia/seminars - Three

1. Kerala Science Congress at Centre for Earth Science Studies, Thiruvananthapuram from 29-01-2011 to 31-01-2011.
2. Kerala Women's Science Congress (Life Sciences) at St. Teresa's College, Ernakulam from 10-08-2010 to 12-08-2010
3. Kerala Science Congress at Rubber Institute of India, Rubber Board Kottayam, Kerala from 29-01-2010 to 31-01-2010.

Paper publications

International Journals: One

1. Cytotoxicity testing of the fruit extracts of *Rauvolfia tetraphylla* L. using *Allium Cepa* chromosome aberration assay. *International Journal of Advanced Research*, 3(1):1258-1264, **2016**.

National Journals: Seven

1. Evaluation of Antimicrobial Activity of Selected Medicinal Plant Extracts against Pathogenic Bacteria. Logos, Regional, 2, **2014**.
2. Study of Potential Mutagenic effect of Fruit Extract of *Cerbera odollum* Gaertn. on mitosis of Root Meristematic cells of *Allium cepa* L., Proceedings of National seminar on Biodiversity its conservation for sustainable future, National, **2012**, Departments of Botany & Zoology, St. Thomas College, Ranni, Kerala.
3. Impact of climate change on rubber plantations with special reference to Kannur and Wayanad districts. Proceedings of 24th Kerala Science Congress, , RRII, Kottayam, pp. 73-74, 29-31 January **2012**
4. Evaluation of Cytotoxic Potential of Fruit Extracts of *Cerbera odollum* in *Allium cepa* Root, Ind.J. Bot.Res, **5, 2009**.
5. Effect of Cadmium sulphate on mitosis of *Allium cepa* L – Indian Journal of Botanical Research Ind.J. Bot.Res. **2008** Vol. 4 (1), 117-122.
6. Cytomorphological studies on nine varieties of *Manihot esculenta*, Crantz. Journal of Annamalai university, part- B, Sciences. 63-68.**2004**
7. Effect of heavy metal Cadmium on the Somatic Chromosomes of *Haemanthus multiflorus* Martin. Geobios New Reports 17 (1):79-80.**1998**.

Abstracts- Ten

1. Studies on the Karyological pattern of *Manihot esculenta* Crants. Var.Palakkaden, *Proc.Ind Sci.Cong* (Bot.Sec.) 72:45, .**1998**.
2. Effect of Heavy Metal Cadmium on the Somatic Chromosomes of *Zephyranthes grandiflora* Lindl: *Proc. Ind.Sci.Cong*.(Bot. Sect.) 131 : 97-98.1999
3. Studies on the Karyomorphological Pattern of Four Varieties of *Manihot esculenta* Crants.*Proc.Ind.Sci.Cong*. (Bot.Sect.) 132:98.**1999**.
4. Cytological effects of Cadmium on somatic chromosomes of *Hippeastrum reticulam* Lin var. *srtatifolium* Baker. Swadeshi Science congress XV: 32.5-7 November **2005**.
5. Effect of *Curcuma caesia* leaves on germination of selected pulses. Kerala Women's science congress (Life sciences). 10 -12 Aug **2010**/ St. Teresa's College, Ernakulam: 51-52.
6. Mechanized paddy cultivation – A revolutionary change in the socio economic background of paddy farming in Kannur district, Kerala. Kerala Science Congress 29-31 January,**2011**.
7. Impact of climate change on rubber plantations with special reference to Kannur and Wayanad districts. Proceedings of 24th Kerala Science Congress, 29-31 January **2012**.

8. Cytotoxicity testing of the fruit extracts of *Rauvolfia tetraphylla* L. using *Allium cepa* chromosome aberration assay. Eleventh all India Conference on Cytology and Genetics. Organized by Dept. of Molecular Biology, Bangalore University, Bangalore **2012**.
9. An Investigation on Cytotoxic activity of Fruit mesocarp of *Cerbera odollum* Gaertn. Using *Allium* tests. Biofest Recent trends and future prospects of Biodiversity and conversation. Organized by the Dept. of Botany & zoology, Sree Narayana College, Punalur, Kollam, Kerala, **2012**.
10. Study of potential mutagenic effect of fruit extract of *Cerbera odollum* Gaertn. On mitosis of root meristematic cells of *Allium cepa*

Orientation and Refresher Courses attended

1. Orientation Course (IT Oriented) from **08-06-2006 to 05-07-2006** at Academic Staff College, University of Kerala.
2. Refresher course in Life Science from **26-12-2007 to 15-01-2008** at Academic Staff College, University of Kerala.
3. Refresher course in Life Science from **26-05-2011 to 16-06-2011** at Academic Staff College, University of Kerala.
4. Special Summer School (Multidisciplinary Refresher course) from **14-10-2016 to 03-11-2016** at Academic Staff College, University of Kerala.
5. ** Refresher Course in Plant Taxonomy from **06-12-2010 to 10-12-2010** at Tropical Botanic Garden & Research Institute, Palode, Thiruvananthapuram, Kerala.

Faculty as Resource person

1. Resource Person for providing Skill Enhancement Training to students of Women Resource Center, S.N.College for Women, Kollam, during **2012-13**, in connection with the project “Skill Enhancement Computer Training and Women Resource Center in Colleges of Kerala” by Kerala State IT Mission, Govt. of Kerala
2. Co-chairperson of **International Seminar** on “World Bioheritage concerns over Climate Change, with a special reference to Ethnic Vegetables” organized by the Department of Botany, SN College, Chempazhanchy, Trivandrum, Kerala from **7th – 8th September 2012** at SN College, Chempazhanchy.
3. Chairperson of the National seminar (Session III) on “Socio-economic root causes of biodiversity loss”, organized by Dept. of Botany, Sree Narayana College, Kannur, Kerala during **24-01-2014 to 25-01-2014**.
4. Chairperson of **Botanica-2015**, Annual Academic Seminar Series conducted as a two-day event with a Regional Seminar on Emerging Trends in Conservation Biology and Annual Conference of Marmarangal

organized by Department of Botany, Sree Narayana College, Chempazhanthy from **12th to 13th February 2016**.

Workshops attended- Six

1. **One Day workshop** on Higher Education organized by All Kerala Private College Teacher's Association, held at Sir Syed College, Thaliparamba, Kannur, Kerala, on 18th December, **2004**
2. **One Day Workshop** on Research Project Proposals, organized by Kannur University, held at Kannur University Senate hall, on 3rd February, **2006**.
3. **Two Day Workshop** on Molecular Endocrinology, organized by Indian Academy of Sciences, Bangalore and Post Graduate Department of Zoology and Research Centre, held at Department of Zoology, S.N. College, Kannur from 26th to 27th October, **2006**.
4. **One Day Workshop** on Environmental Education, organized by WWF-India, held at WWF Kerala State Office, Mangattuparamba, on 14th March, **2008**.
5. **One Day Workshop** on Virtual Labs, organized by Amritha Vishwa Vidyapeetham, held at Amrithapuri Campus on 24th September, **2011**
6. **One Day Workshop** on ICT in Higher Education organized by Christ University, Bangalore, India held at Christ University Nodal Office, Vazhuthacaud, Thiruvananthapuram, India at May 17th to 18th, **2012**.

Seminars organized

1. **Co-ordinator of Botanica-2015**, Annual Academic Seminar Series conducted as a two-day event with a Regional Seminar on Emerging Trends in Conservation Biology and Annual Conference of Marmarangal organized by Department of Botany, Sree Narayana College, Chempazhanthy from **12th to 13th February 2016**.
2. **Organizing Member**, Golden Jubilee **Spectrum Seminar Series - 2015**, organized by Sree Narayana College, Chempazhanthy from **26th February to 12th March 2015**.
3. **Editor, Proceedings of Spectrum**, Golden Jubilee **Spectrum Seminar Series - 2015**, organized by Sree Narayana College, Chempazhanthy from **26th February to 12th March 2015**.
4. **Co-ordinator, Botanica-2014**, one day **Seminar** on Forest Resources of Kerala and their Conservation, SN College, Chempazhanthy, Trivandrum, Kerala **27th November 2014** at SN College, Chempazhanthy.
5. **Co-ordinator, Botanica-2014, Exhibition** on Plant Science Research & Homestead Farming and **Workshop** on Field Taxonomy for College teachers and Research Scholars organized by the Department of Botany, SN College, Chempazhanthy, Trivandrum, Kerala from **27–29 November 2014** at SN College, Chempazhanthy. Exhibition on Plant Science Research and Homestead Farming in collaboration with JNTBGRI, Palode,

CTCRI, Sreekariyam and Farming Research Station, Kottarakkara and Workshop on Field Taxonomy for College Teachers and Research Scholars.

6. **Co-ordinator, Botanica-2014**, one day **Workshop** on Field Taxonomy for College teachers and Research Scholars organized by the Department of Botany, SN College, Chempazhanthy, Trivandrum, Kerala **29th November 2014** at SN College, Chempazhanthy. Seminar on Forest Resources and their Conservation, Exhibition on Plant Science Research and Homestead Farming in collaboration with JNTBGRI, Palode, CTCRI, Sreekariyam and Farming Research Station, Kottarakkara and Workshop on Field Taxonomy for College Teachers and Research Scholars.
7. **Organising Committee member** UGC sponsored National seminar organized by the Department of Botany, Sree Narayana College, Kannur **2008**.

SN College, Kannur----2004 to 2009

1. Member, College Greening Committee - 2005-2006
2. Member, College Greening Committee - 2006-2007
3. Member, College Greening Committee - 2007-2008
4. Coordinator, Nature club - 2008-2009
5. Member, Student Counselling cell - 2008-2009

SN College, Punalur -----2009 to 2010

1. Convener - Tourism Club
2. Member - Library Advisory Committee

SN College for Women, Kollam-----2010 to 2014

1. Member, Nature Club - 2012-2013
2. Coordinator, Career and Counselling cell - 2013-2014
3. Joint-convener, Admission committee - 2013-2014

SN College, Chempazhanthy-----2014- 2017

1. Convener, NAAC Steering Committee of the college from 2014 – January 2016.
2. Convener, Admission committee of college - 2014-2015
3. Convener, Admission committee of college - 2015-2016
4. Convener, Admission committee of college - 2016-2017
5. Convener, Nature Club - 2014-2015
6. Convener, Student's Forum - 2014-2015

- | | | |
|---|---|-----------|
| 7. Convener, Lab to Land Programme | - | 2014-2015 |
| 8. Member, Discipline Committee | - | 2014-2015 |
| 9. Member, Student's Grievance Redressal Cell- | | 2014-2015 |
| 10. Editor, Proceedings of Spectrum | - | 2014-2015 |
| 11. Member , Star Tree Grove Project | - | 2014-2015 |
| 12. Union Advisor | - | 2014-2015 |
| 13. Convener, Lab to Land Programme | - | 2015-2016 |
| 14. Member, Alumni Association | - | 2015-2016 |
| 15. Member, Nature Club | - | 2015-2016 |
| 16. Joint Secretary, Marmarangal, Botany Alumni Association – | | 2015-2016 |
| 17. Joint Secretary, Marmarangal, Botany Alumni Association – | | 2016-2017 |

SN College, Sivagiri, Varkala ---- 2017- 2018

1. Coordinator – Nature Club
2. Department IQAC Coordinator

Other Achievements

1. **Stage Manager**, of Kerala University Youth Festival at Kollam from **29th February to 3rd March 2012**
2. **Special invitee of Syllabus revision Committee of** CBCSS of BSC Botany, University of Kerala, **2010**
3. **Member** of Syllabus Revision committee of M.Sc. Botany, Kannur University, **2008**.
4. **Member**, P.G Board of Studies of Botany, Kannur University, **2006- 2008**

Dr.K.R.Kavitha