

BIO – DATA

Dr. KAVYASHREE, R
Principal
The Oxford College of Science

Professor & Head
Department of Biotechnology
HSR Layout, Bangalore - 106

1. Name : **Dr. KAVYASHREE, R**
2. Age : 44 years
Date of birth : 23.02.1972
Place of birth : MYSORE, KARNATAKA
Sex : Female
3. Educational Qualifications : **B.Sc., M.Sc., Ph.D., F.S.Sc., FSAB, JF**

(Starting from Bachelor's degree onwards)

Sl. No.	Degree	University	Year	Subjects	Percentage
1	2	3	4	5	6
1.	Bachelor of Science (B.Sc.)	Mysore University	1993	Biochemistry Botany Microbiology	70%
2.	Master of Science (M.Sc.)	Mysore University	1995	Botany Specialization : Genetics and Cell Culture	68%
3.	Doctor of Philosophy (Ph.D.)	Bangalore University	2002	Title of the Ph.D., Thesis: <i>"In vitro morphogenetic studies on mulberry variety - S₅₄"</i>	

4. Specialization : **PLANT BIOTECHNOLOGY**

5. Present position and address : **PRINCIPAL**
The Oxford College of Science
No. 32, 17th 'B' Main
Sector IV, HSR Layout,
BANGALORE – 560 102

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6. Details of professional training, research and teaching experience, specifying period.

YEAR	RESEARCH/TEACHING EXPERIENCE
1996-1998	<p>1. RESEARCH TRAINEE (RT) – Food Packaging Technology Department (FPTD) Central Food Technological Research Institute (CFTRI) MYSORE-570 013. In the project entitled “Suitability of indigenous aluminium cans for packaging of processed foods and beverages” sanctioned to Dr. M. Mahadeviah, Head, FPTD, CFTRI, Mysore.</p>
1998-1999	<p>2. SENIOR RESEARCH FELLOW (SRF) – Food Packaging Technology Department (FPTD) Central Food Technological Research Institute (CFTRI) MYSORE-570 013. In the project entitled “Suitability of indigenous aluminium cans for packaging of processed foods and beverages” sanctioned to me by Council for Scientific and Industrial Research (CSIR), New Delhi to work under the guidance of Dr. M. Mahadeviah, Head, FPTD, CFTRI, MYSORE-570 013.</p>
1999-2001	<p>3. SENIOR RESEARCH FELLOW (SRF) – Tissue culture and Cytogenetics Laboratory Department of Botany Bangalore University BANGALORE-560 056. In the project entitled “<i>In vitro</i> morphogenetic studies on mulberry variety – S₅₄” sanctioned to me by Council of Scientific and Industrial Research (CSIR), New Delhi to work under the guidance of Dr. M.C. Gayatri, Professor and Chairperson, Department of Botany, Bangalore University, BANGALORE-560 056.</p>
2000	<p>4. PROFESSIONAL TRAINING: Attended workshop on “Molecular Biology” conducted by Department of Biotechnology, Bharatidasan University, Trichy to undergo professional training to learn different techniques of molecular biology related to RAPD, RFLP, Western Blot, Southern Blot, SDS-PAGE and Agrobacterium mediated gene transfer in plant systems.</p>
2003-2005	<p>5. GUEST FACULTY (Full Time) Department of Botany Bangalore University BANGALORE-560 056.</p>
2004-2005	<p>6. RESEARCH ASSOCIATE (RA) – Plant Biotechnology Unit Annexe-Department of Botany Bangalore University, BANGALORE-560 056. In the project entitled “Programme support for priority areas in Plant Biotechnology” sanctioned to Dr. M.C.Gayatri, Professor & PI, Plant Biotechnology Unit, Annexe-Department of Botany, Bangalore University, BANGALORE – 560 056.</p>

2005-2009	<p>7. CONTRACT LECUTURER Plant Biotechnology Unit Annexe-Department of Botany Bangalore University BANGALORE-560 056. To conduct “Hands – On training programme on Plant tissue culture techniques” under the DBT project entitled “Programme support for priority areas in Plant Biotechnology” sanctioned to Dr. M.C.Gayatri, Professor & PI, Plant Biotechnology Unit, Annexe-Department of Botany, Bangalore University, BANGALORE – 560 056.</p>
2005-2008	<p>8. PRINCIPAL INVESTIGATOR DST WOS-A Project Plant Biotechnology Unit Annexe-Department of Botany Bangalore University BANGALORE-560 056. In the project entitled “Isolation of root rot tolerant clones through callus phase in <i>Zingiber officinale</i> Rosc.” sanctioned to me by Department of Science and Technology (DST), Ministry of Science and Technology, Government of India, New Delhi under Women Scientist Scheme (WOS-A).</p>
2006	<p>9. PROFESSIONAL TRAINING: Completed crash course in “Advanced Diploma in Genetic Engineering” at JIVAS, Bangalore</p>
2006-2009	<p>10. GUEST FACULTY (Full Time) Department of Molecular Biology Plant Biotechnology Unit Annexe-Department of Botany Bangalore University, BANGALORE-560 056.</p>
2009-2014	<p>ASSOCIATE PROFESSOR 11. Department of Biotechnology Kristu Jayanti College Kothanur Post, K. Narayanapura, BANGALORE-560 077.</p>
2011	<p>12. PROFESSIONAL TRAINING: Attended Refresher course on “Modern Biotechnological Techniques” at Manipal University, Manipal</p>
2011-2012	<p>13. JNANA FELLOW Karnataka Jnana Aayoga (Knowledge Commission) Vidhana Soudha Government of Karnataka</p>
2014-to-date	<p>14. PRINCIPAL Professor & Head, Department of Biotechnology Co-ordinator, Biotechnology Finishing School, The Oxford College of Science, HSR Layout BANGALORE – 560 102</p>

7. Administrative Experience:

1. Principal, The Oxford College of Science

**Head, Department of Biotechnology,
Co-ordinator, Biotechnology Finishing School,
The Oxford College of Science. Bangalore - 560102.**

- Serving as Member Secretary, Governing Council
- Serving as Member Secretary, Research Advisory Committee
- Serving as Chairperson of various cell/committees
 - ✓ Internal Quality Assessment Cell (IQAC)
 - ✓ Committee for Staff Development & Welfare
 - ✓ Women Empowerment Cell
 - ✓ Sexual Harassment Elimination Cell
 - ✓ Equal Opportunity Cell
 - ✓ Student Council & Welfare Committee
 - ✓ Behavioural Science and Grievance Reddressal Cell
- Serving as Member, Institutional Animals Ethics Committee (IAEC)

2. Co-ordinator (In-charge), Department of Molecular Biology, Bangalore University, Bangalore – 560 056.

- Involved in the establishment of Plant Biotechnology Unit, Orchidarium and Hardening Chamber with all modern infrastructural facilities at Jnana Bharathi Campus, Bangalore University, Bangalore as Research Associate of the DBT funded project
- Involved in the Institution of M.Sc., Molecular Biology course at Plant Biotechnology Unit as Principal Investigator of DST WOS-A scheme.
- Associated with the Co-ordinator of Molecular Biology in
 - Procurement of chemicals and glasswares
 - Procurement of equipments through tender notification
 - Procurement of books
 - Maintenance of stock registers, to registers, issue registers
 - Organizing BOS, BOE, BOAE meetings
 - Organizing lectures
- Instrumental in the institution of the “Molecular Biology Forum” during 2008.

3. Organising committee member

- “11th meeting of the Subject Expert Committee (SEC) on Life Sciences Women Scientists Scheme – A (WOS-A) sponsored by Department of Science and Technology, Ministry of Science and Technology, Government of India, New Delhi held at The Oxford College of Science, Bangalore during 29th -31st December, 2014.
- “7th meeting of the Subject Expert Committee (SEC) on Life Sciences Women Scientists Scheme – A(WOS-A) meeting sponsored by Department of Science and Technology, Ministry of Science and Technology, Government of India, New Delhi held at Jnana Jyothi Auditorium, Central College, Bangalore University, Bangalore during 25th – 27th July, 2008
- “1st meeting of the Subject Expert Committee (SEC) on Life Sciences Women Scientists Scheme – A(WOS-A) sponsored by Department of Science and Technology, Ministry of Science and Technology, Government of India, New Delhi held at The Club, Mysore Road, Bangalore during 1-2nd February, 2007
- “International Food Convention (IFCON) 98” held at CFTRI, Mysore during 1998.

- 4. Jnana Fellow**
 - Served as Jnana Fellow, Karnataka Jnana Aayoga (Knowledge Commission), Government of Karnataka from November – May, 2011.
- 5. Co-ordinator**
 - Life Science Forum at Kristu Jayanti college July, 2011 to July, 2014
- 6. Assistant Custodian**
 - PG I & III Semester Bangalore University examinations, 2013.
- 7. Subject Expert Committee Member**
 - For selection of SRF/JRF for DBT funded project at Department of Botany, Karnatak University, Dharwad, 2013
- 8. Executive Council Member**
 - Serving as Executive Council Member, Society of Cytologists & Geneticists, Bangalore since January, 2011.

8. Teaching Experience/courses taught with duration: 14 YEARS

Courses taught	Subjects handled		From	To
	Theory	Practicals		
M.Sc., Botany				
I Semester	-	Algae and Bryophytes	2003	2005
III Semester	Plant Tissue Culture	Plant Tissue Culture	2003	2007
IV Semester	Plant Biotechnology Genetics	Plant Biotechnology	2003	2007
M.Sc., Molecular Biology				
I Semester	Microbiology	Microbiology	2006	2009
II Semester	Genetic Engineering	Nucleic Acids and Genetic Engineering	2006	2009
III Semester	Molecular Biology of Development	Molecular Biology – I	2007	2009
IV Semester	Plant Biotechnology	Plant Biotechnology	2007	2009
M.Sc., Biotechnology				
I Semester	General Microbiology	General Microbiology	2009	Till Date
II Semester	Molecular Biology		2012	
III Semester	Plant Biotechnology	Plant Biotechnology	2009	
IV Semester	Agricultural Biotechnology	Agricultural Biotechnology	2009	
M.Sc., Microbiology				
I Semester	Microbial diversity Mycology Microbiological techniques	Bacteriology & Virology Mycology	2009	2014
II Semester	Microbial Physiology	Microbial Physiology	2009	
IV Semester	Molecular Biology Agricultural Microbiology	Agricultural Microbiology	2012 2009	

Examinership at P.G./Doctoral level	<ul style="list-style-type: none"> • External / Internal Examiner to conduct PG practical examinations of Bangalore University and other Autonomous colleges (Mount Carmel College, Kristu Jayanti College, CMR Institute) • External examiner nominated by Karpagam University for evaluation of thesis entitled “<i>In vitro</i> propagation and conservation of <i>Flickengeria nodosa</i> (Dalz.) Seidenf., A vulnerable orchid plant of high medicinal value” leading to Doctoral degree • Subject Expert Committee Member nominated by Department of Botany, Karnatak University Dharwad for selection of JRF/SRF to a DST funded research project
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BANGALORE UNIVERSITY ASSIGNMENT

Assistant Custodian	Odd Semester PG Examination	2012	
EXTERNAL EXAMINER			
Name of the College	Semester	Month/Year	
Brindavan College	I, II, III & IV M.Sc.,	2011 – to-date	
Indian Academy of Sciences			
Reva College			
CMR College			
PES College			
Kristu Jayanti College			
INTERNAL EXAMINER			
Kristu Jayanti College	V B.Sc.,	2011 – 2014	
Kristu Jayanti College	I, II, III & IV M.Sc.,		
Kristu Jayanti College			
ASSIGNMENT AT AUTONOMOUS COLLEGES			
Name of the College	Semester	Type of Assignment	Month/Year
Mount Carmel College	III M.Sc.,	Paper Setting Valuation	2011 – Till-date
CMR College	III M.Sc., I M.Sc., I B.Sc.,	Paper Setting Paper Setting Paper Setting	Nov-Dec, 2011 Nov-Dec, 2011 Nov-Dec, 2011
Kristu Jayanti College	I M.Sc., III M.Sc.,	Paper setting & valuation	Oct-Nov., 2014

9. Research Experience and work carried out : 20 YEARS (including time spent for Ph.D. degree)

1996 – 1999 (CFTRI, Mysore)

Study of suitability of indigenous aluminium cans for packaging of processed foods and beverages

1999 – 2002 (Bangalore University)

Development of *in vitro* protocols in mulberry

- Micropropagation through direct and indirect organogenesis
- *Ex vitro* rooting
- Induction of haploids through ovary and ovule culture
- Production of synthetic seeds using vegetative propagules
- Reduce the cost of micropropagation using alternative sources in place of sucrose and agar.

2003 – 2004 (Bangalore University):

Development of *in vitro* protocols in medicinal plants and orchids

- Large scale multiplication through direct and indirect organogenesis
- Somatic embryogenesis
- Isolation of somaclones
- Slow callus culture
- Production of synthetic seeds for long term maintenance

Establishment of field gene bank, seed gene bank and *in vitro* bank for conservation of rare, endangered, threatened and endemic medicinal plants and orchids

2005 – 2008 (Bangalore University):

Isolation of root rot disease tolerant clones in ginger

- through callus phase
- treating pure culture filtrate of *P. aphanidermatum* and *P. myriotylum*
- adopting continuous and discontinuous *in vitro* selection techniques
- confirming disease tolerance by *in vitro* and *in vivo* sick plot technique and genetic fidelity by RAPD assay

2009 – to-date :

M.Sc., research projects guided and completed:

1.	2007	<i>In vitro</i> morphogenetic studies on few endangered orchids.
2.	2008	RAPD analysis of genetic variability in Geranium.
3.	2010	<i>In vitro</i> and <i>ex vitro</i> regeneration of axillary bud synthetic seeds of groundnut.
4.	2010	Molecular characterization of cardamom varieties using RAPD markers.
5.	2010	Molecular characterization of Bamboo varieties using RAPD markers.
6.	2011	Synthetic seed production from encapsulated PLBs and <i>ex situ</i> conservation of selected medicinal orchids of Western Ghats.
7.	2011	Mass Propagation and Phytochemical Screening of <i>Vanda tessellata</i> .
8.	2011	Assay of biofertilizers on growth and yield of green gram and channa.

9.	2013	<i>In vitro</i> regeneration and <i>Agrobacterium tumifaciens</i> mediated transformation of <i>Stevia rebaudiana</i> – a natural sweetener.
10.	2013	Primer designing and transferability of mulberry SSR's in species of Moraceae family.
11.	2013	Cross-genera transferability of mulberry SSR markers among jackfruit, banyan and peepal.
12.	2014	Development of microsatellite markers and genetic diversity studies in Epidendroideae.
13.	2014	Tissue culture and genetic diversity studies in <i>Capsicum</i> sps.
14.	2015	Quantification of bacterial colony forming unit in a given environment by quantitative Real time PCR.
15.	2015	Optimization of growth parameters and establishing carbon dioxide dependency for BHK-21 adherent cell line and scale-up studies using micro-carrier technology.
16.	2016	Structural bioinformatics analysis of dihydrofolate reductases in the trimethoprim-resistant <i>dfr</i> gene cassette.
17.	2016	Screening of phytochemical compounds, antioxidants and antimicrobial activities of <i>Cassia alata</i>
18.	2016	Evaluation of stability of the black tea concentrates of different geographical origins
19.	2016	Biodegradation of Xenobiotics (azodye) by <i>Bacillus megaterium</i> and purification of azo reductase and analysis of the degradation by HPLC.

10. Research Projects sanctioned by National funding agencies:

1. On-going: (Scientist Mentor)

Title: Increase in biomass and productivity of transgenic *Stevia* by overexpressing the *Flowering Locus M*, *Terminal Flower 1 (TFL1)* and down-regulating *Flowering Locus T (FT)*.

Funding Agency: DST, Government of India

Scheme: Women Scientist Scheme (WOS-A)

Period: 3 years (2015 – 2018)

Approved Cost: Rs. 22 lakhs

2. Completed: (Principal Investigator)

Title: Isolation of root rot tolerant clones through callus phase in *Zingiber officinale* Rosc.

Funding Agency: DST, Government of India

Scheme: Women Scientist Scheme (WOS-A)

Period: 3 years (2005 – 2008)

Approved Cost: Rs. 16.21 lakhs

3. Completed: (Co-Investigator)

Title: Molecular characterization of Western Ghats Orchids

Funding Agency: UGC, New Delhi

Period: 3 years (2011 – 2014)

Approved Cost: Rs. 9.61 lakhs

4. Completed: (Scientist Mentor)

Title: *In vitro* regeneration and *Agrobacterium tumifaciens* mediated transformation of *Stevia rebaudiana* – a natural sweetener.

Funding Agency: VGST, Department of IT, BT, S&T, Government of Karnataka
Scheme: SPiCE Project
Period: 5 months (October 2011 – March 2012)
Approved Cost: Rs. 30,000

5. Completed: (Principal Investigator)

Title: Regulation of flowering in *Stevia* expressing floral repressor genes *FLC* and *TFL1*

Funding Agency: VGST, Department of IT, BT, S&T, Government of Karnataka
Scheme: SMYSR Award
Period: 2 years (2011 – 2013)
Approved Cost: Rs. 4.00 lakhs per year

6. Completed: (Co-Investigator)

Title: Application of biofertilizer consortium to improve crop yield in legumes – a way to economically viable agriculture.

Funding Agency: Karnataka Jnana Aayoga, Vidhana Soudha, Government of Karnataka
Scheme: Jnana Shodha, 2012
Period: 3 months (2012)
Approved Cost: Rs. 1.5 lakhs.

11. List of Publications:

Papers published in International and National Journals: 35

INTERNATIONAL JOURNALS: 20

1. **R. Kavyashree**, Divya S Aind. (2016). Dedifferentiation and Redifferentiation in *Stevia rebaudiana*, International Journal of Multidisciplinary Research Centre, Vol. II, Issue - 2, 11-16. **IF: 2.513.**
2. **R. Kavyashree**, Divya S Aind. (2013). High frequency multiplication of shoots using axillary buds for production of elite lines of *Stevia rebaudiana*, Advances in Bioscience and Biotechnology, Vol. 4, 781-784. **IF: 1.778.**
3. **R. Kavyashree.** (2009). Somatic embryogenesis and plantlet regeneration from *in vitro* pseudostem of ginger variety Varada. *Plant Cell Biotechnology and Molecular Biology*, 2009, 10 (1 & 2): 25-30. **ISSN: 0972-2025; H Index: 6.**
4. M.C.Gayatri and **R. Kavyashree** (2007). Effect of carbon sources on *in vitro* seed germination of monopodial orchid – *Epidendrum radicans*. *Phytomorphology*, 57 (1 & 2) : 67-70. **ISSN: 0031-9449; H Index: 12**
5. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2006). Propagation of mulberry variety – S₅₄ by syn seeds of axillary bud, *Plant Cell, Tissue and Organ Culture*, 84: 245-249. **IF: 2.612; ISSN: 0167-6857, H Index: 52.**
6. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2006). Electrophoretic studies in *in vitro* diploid and gynogenic haploid of mulberry variety- S₅₄. *Asian Journal of Microbiology, Biotechnology, & Environmental Sciences*, 8 (2) : 315-317; **ISSN: 0972-3005; H Index: 11.**
7. M.C.Gayatri, **R. Kavyashree**, S.R.Usha and S.P. Dhananjaya (2006) *In vitro* seed germination of *Pecteilis gigantea* – A rare, endangered and endemic orchid of Western Ghats. *Plant Cell Biotechnology and Molecular Biology*, 7 (3 & 4): 191-194. **ISSN: 0972-2025; H Index: 6**
8. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2006). Formulation of medium to reduce the cost of *in vitro* micropropagation. *Sericologia*, 46(4), 459-465. **ISSN: 0250-3980.**

9. M.C.Gayatri, V. Roopadarshini and **R. Kavyashree**. (2005). Selection of turmeric callus for tolerant to culture filtrate of *Pythium graminicolum* and regeneration of plants, *Plant Cell, Tissue and Organ Culture*, 83: 33-40. **IF: 2.612; ISSN: 0167-6857, 1573 5044; H Index: 52.**
10. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2005). Rapid clonal propagation of mulberry variety – S₅₄ through *in vitro* culture of axillary bud. *Sericologia*, 2005, 45(4) : 461-469. **ISSN: 0250-3980.**
11. M.C.Gayatri, V. Roopadarshini, **R. Kavyashree** and C.Suresh Kumar (2005). Encapsulation and regeneration of aseptic shoot buds of turmeric (*Curcuma longa* L.). *Plant Cell Biotechnology and Molecular Biology*, 6 (3 & 4): 89-94. **ISSN: 0972-2025; H Index: 6.**
12. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2005). *In vivo* regeneration of apical bud syn seeds of mulberry variety-S₅₄ (*Morus indica* L). *Plant Cell Biotechnology and Molecular Biology*, 6 (1 & 2): 69-72. **ISSN: 0972 2025; H Index: 6.**
13. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2005). A protocol for *in vitro* regeneration of mulberry variety- S₅₄ through callus phase. *Sericologia*, 45(1) : 103 - 109. **ISSN: 0250-3980.**
14. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2005). *Ex vitro* rooting and acclimatization of *in vitro* shoots of mulberry variety- S₅₄ (*Morus indica* L). *Sericologia*, 45(1) : 81-85. **ISSN: 0250-3980.**
15. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2004). Regeneration of encapsulated apical buds of mulberry variety-S₅₄ (*Morus indica* L.). *Sericologia*, 2004, Vol. 44 (1), 83-89. **ISSN: 0250-3980.**
16. M.C.Gayatri, **R.Kavyashree**, S.Kiran, V. Roopadarshini, C.Suresh Kumar and H.M.Shantha. (2004). Meiotic studies in cultivar ‘Gangasetty’ of *Codiaeum variegatum* Blume. *The Nucleus*, Vol. 47 (1,2), 42-44; **ISSN No. 0029-5698.**
17. M.C.Gayatri, H.M.Revanasiddaiah and **R. Kavyashree**. (2003). A protocol to reduce the cost of *in vitro* propagated plants of mulberry. *Sericologia*, Vol. 43(1), 109-115. **ISSN: 0250-3980.**
18. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2002). Induction of haploids through ovule culture in mulberry variety-S₅₄. *Sericologia*, Vol. 42(4), 1-9. **ISSN: 0250-3980.**
19. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2001). A repeatable protocol for the production of gynogenic haploid plants in mulberry variety - S₅₄. *Sericologia*, Vol. 41(3), 517-521. **ISSN: 0250-3980.**
20. M.N.Srinivasa, H.M.Revanasiddaiah, M.C.Gayatri and **R. Kavyashree**. (2001). Indirect organogenesis through stem callus in mulberry variety Berhampore Local. *Sericologia*, Vol. 41(1), 101-104. **ISSN: 0250-3980.**

NATIONAL JOURNALS : 11

21. **R. Kavyashee**. (2012). Genetic polymorphism in seven varieties of *Zingiber officinale* using RAPD markers. *Advanced Biotechnology*, 2012, Vol. 11 (11), 25 - 28. **ISSN: 0973-0109.**
22. Nagananda G. S., **R. Kavyashee**, Nalini Satish Chandra. (2012). Brick pieces soaked in liqued culture medium – a new matrix for seed germination and plantlet development for orchid *Flickingeria nodosa* (Dalz.) Seidenf., *Current Science*, Vol. 102, No. 8, 1104 – 1107. **ISSN: 0011-3891; IF: 0.897.**
23. **R. Kavyashee**. (2011). *In vitro* micropropagation of ginger variety – Suruchi. *Advanced Biotechnology*, Vol. 11(1): 17-19. **ISSN: 0973-0109.**

24. **R. Kavyashee.** (2009). An efficient *in vitro* protocol for rapid clonal multiplication of ginger variety Varada. *Indian Journal of Biotechnology*, Vol. 8, 328-331. **ISSN: 0972-5849; IF: 0.510.**
25. **R. Kavyashree.** (2008). Molecular and morphological characterization of seven varieties of *Zingiber officinale*. *Journal of Cytology and Genetics*, 9 (NS), 101-107. **ISSN: 0253-7605.**
26. **R. Kavyashree** (2007). A repeatable protocol for *in vitro* micropropagation of mulberry variety– S₅₄. *Indian Journal of Biotechnology*, 6, 385 – 388. **ISSN: 0972-5849; IF: 0.510.**
27. M.C.Gayatri, M. Madhu and **R. Kavyashree.** (2006). Micropropagation of *Melia azedarach* L. – An important folk medicinal plant. *Journal of Medicinal and Aromatic Plant Sciences*, 28:355-358. **ISSN 0974-7877; SJR Rank – 0.221.**
28. M.C.Gayatri, M. Madhu, **R. Kavyashree** and S.P.Dhananjaya. (2006). A protocol for *in vitro* regeneration of *Eryngium foetidum* L. *Indian Journal of Biotechnology*, 5 : 249-251. **ISSN: 0972-5849; IF: 0.510.**
29. M.C.Gayatri and **R. Kavyashree** (2005). Influence of carbon sources on *in vitro* seed germination, protocorm and shoot formation in *Vanilla planifolia*, *The Journal of Current Sciences*, 7(1) : 43-48. **ISSN: 0972-6101.**
30. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2005). Somaclonal variations for some morphological and biochemical traits in mulberry variety-S₅₄ – through callus phase, *The Journal of Cytology and Genetics*, 6 (NS) : 41-46. **ISSN: 0253-7605.**
31. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. (2005). Isolation of somaclones in mulberry variety– S₅₄ through callus phase. *Indian Journal of Botanical Research*, 1(1) : 29-35. **ISSN: 0973-2233.**
32. M.C. Gayatri, **R. Kavyashree**, S.Kiran, M.Madhu and H.M.Shantha. (2004). Cytological instability in cultivar ‘Gangasetty’ of *Codiaeum variegatum* Blume. *The Journal of Current Sciences*, Vol. 5 (1), 115-118. **ISSN: 0972-6101.**
33. M.C.Gayatri, H.M.Revanasiddaiah and **R. Kavyashree** (2003). A comparative electrophoretic study on protein profile of diploid and gynogenic haploid plants of mulberry variety-S₅₄. *Journal of Current Sciences*, 3(1), 29-33. **ISSN: 0972-6101.**
34. M.C.Gayatri, H.M.Revanasiddaiah and **R. Kavyashree** (2002). Electrophoretic studies in *in vitro* derived gynogenic haploids in mulberry. *The Journal of Cytology and Genetics*, 3(NS),175-178. **ISSN: 0253-7605.**
35. P. Ashok Kumar, H.M.Revanasiddaiah, M.C.Gayatri and **R. Kavyashree.** (1999). Indirect organogenesis in *Morus alba* L.-S₃₀. *Proceedings of NSTS*, Vol. 1, 4-5.

12. Conferences attended: 28; Papers presented: 23

International Conference: 5 ; Papers presented : 9

1. **R. Kavyashree.** Award Lecture “Contributions made in the field of medicinal Plant Biotechnology” at “3rd International Conference on medicinal Plants & Herbal products” organized by Faculty of Medicine and the Institute of Indigenous medicine, University of Colombo, Colombo, Sri Colombo, 19th – 21st December, 2011.
2. **R. Kavyashree.** *In vitro* selection of ginger cell lines tolerant to *Pythium myriotylum* and its regeneration presented at XVIII International Botanical Congress held at Melbourne Congress and Exhibition Centre, Melbourne during 23rd – 30th July, 2011.
3. **R. Kavyashree.** Molecular characterization of bamboo using RAPD markers presented at XVIII International Botanical Congress held at Melbourne Congress and Exhibition Centre, Melbourne during 23rd – 30th July, 2011.
4. **R. Kavyashree.** *In vitro* selection of ginger cell lines tolerant to *Pythium myriotylum* and regeneration of plants presented at First International Conference of Bio-processing

- and application of Microbial Biotechnology in Agriculture held at National Research Centre, Cairo, Egypt during 1st – 3rd November, 2010
5. **R. Kavyashree.** Molecular and morphological characterization of seven varieties of *Zingiber officinale* presented at 12th Biological Science Congress held at University of Malaya, Kaulalumpur during 17th – 19th December, 2007.
 6. H. M. Revanasiddaiah, **R. Kavyashree** and M.C.Gayatri. Induction of gynogenic haploids in mulberry through unpollinated ovary culture presented at 12th Biological Science Congress held at University of Malaya, Kaulalumpur during 17th – 19th December, 2007.
 7. **R. Kavyashree**, M.C.Gayatri and S. Kiran. Somaclonal variation in *Zingiber officinale* Rosc. – Screening for tolerance to *Pythium aphanidermatum*” presented at XVII International Botanical Congress held at Austria Centre, Vienna during 17th – 23rd July, 2005.
 8. M.C.Gayatri, V. Roopadarshini and **R. Kavyashree.** Isolation of somaclones in turmeric – screening of disease tolerance *in vitro* presented at XVII International Botanical Congress held at Austria Centre, Vienna during 17th – 23rd July, 2005.
 9. **R. Kavyashree**, H.M.Revanasiddaiah and M.C.Gayatri. Synseed technology for conservation and propagation of mulberry presented at XVII International Botanical Congress held at Austria Centre, Vienna during 17th – 23rd July, 2005.

National Conference: 20; Papers presented: 15

1. **M.Mahadevaiah and R. Kavyashree.** Suitability of Aluminium cans for packaging of mango products presented at National Seminar on Food Preservation by Hurdle Technology held at DFRL, Mysore during 29th – 30th December, 1997.
2. P. Ashok Kumar, H.M.Revanasiddaiah, M.C.Gayatri and **R. Kavyashree.** Indirect organogenesis in *Morus alba* L.-S₃₀ presented at National Seminar on Tropical Sericulture held at University of Agricultural Sciences, GKVK, Bangalore - 560 065 during 28th – 30th December, 1999.
3. **R. Kavyashree.** A repeatable protocol for the production of gynogenic haploid plants in mulberry variety - S₅₄ presented at Eighth All India Conference on Cytology and Genetics held at Bangalore University, Bangalore during 23rd – 25th January, 2001.
4. M.C. Gayatri, **R. Kavyashree**, S.Kiran, M.Madhu and H.M.Shantha. Meiotic studies in cultivar ‘Gangasetty’ of *Codiaeum variegatum* Blume presented at Ninth All India Conference on Cytology and Genetics held at Hyderabad, during 6th – 8th November, 2003.
5. M.C.Gayatri, M.Madhu, Kiran, S. and **R. Kavyashree.** *In vitro* morphogenetic studies in *Vanilla (Vanilla planifolia* Andrews) presented at 5th International Food Convention – IFCON held at CFTRI, Mysore during 5th – 8th December, 2003.
6. M.C.Gayatri, V. Roopadarshini and **R. Kavyashree.** Isolation of somaclones in turmeric – screening for disease tolerance *in vitro* at National Symposium on Plant Biotechnology : New Frontiers held at CIMAP, Lucknow during 18th – 20th November, 2005.
7. M.C.Gayatri, M.Madhu and **R. Kavyashree.** Influence of growth regulators on *in vitro* micropropagation of an endangered medicinal plant – *Baliospermum montanum* at National Symposium on Plant Biotechnology : New Frontiers held at CIMAP, Lucknow during 18th – 20th November, 2005.
8. **R. Kavyashree**, M.C.Gayatri and H.M.Revanasiddaiah. Synseed technology for conservation and propagation of mulberry at National Symposium on Plant Biotechnology : New Frontiers held at CIMAP, Lucknow during 18th – 20th November, 2005.
9. M.C.Gayatri, V. Roopadarshini and **R. Kavyashree.** *In vitro* cell selection approach for the development of disease tolerance in turmeric against pure culture filtrate of *Pythium*

- graminicolum* presented at Tenth All India Conference on Cytology and Genetics held at Andhra University, Visakhapatnam, during 8th – 10th December, 2005.
10. M.C.Gayatri, M.Madhu and **R. Kavyashree**. *In vitro* propagation of *Rubia cordifolia* Linn. – An important medicinal plant. Tenth All India Conference on Cytology and Genetics held at Andhra University, Visakhapatnam, during 8th – 10th December, 2005.
 11. M.C.Gayatri, S.P.Dhananjaya, **R. Kavyashree** and G.S.Nagananda. An efficient *in vitro* protocol for large scale multiplication of *Phalaenopsis* through seeds. Tenth All India Conference on Cytology and Genetics held at Andhra University, Visakhapatnam, during 8th – 10th December, 2005.
 12. Participated in National Conference on Emerging Trends and Future Challenges in Biotechnology held at PESIT, Bangalore during 22nd – 23rd September, 2006.
 13. **R. Kavyashree**. High frequency *in vitro* shoot multiplication of *Zingiber officinale* Rosc., using Thidiazuron presented at SYMSAC – III held at Lalbagh, Bangalore during 8th – 10th November 2006.
 14. Attended National Conference on Developmental Biology organized by Department of Botany, Bangalore University at IISc., Bangalore during 15th -17th September, 2010.
 15. Attended National Conference on Awareness on GM foods conducted by BCIC, sponsored by DBT and Government of Karnataka on 21st April 2011
 16. Attended “Recent Trends in Genomics & Proteomics” organized by Indian Academy & Department of Biotechnology, Bangalore University at Jnana Jyothi Auditorium, Bangalore University during 26th – 27th May, 2011.
 17. Nagananda G.S., Nalini Satishchandra and **R. Kavyashree**. A Novel Economical Capillary Force Brick Based Liquid Medium for *in vitro* seed germination and development of medicinally important orchid *Flickingeria nodosa* (Dalz.) Seidenf at Bangalore India Bio, 2012 held from 06-08th February 2012.
 18. Attended Conference on “Biotech crops for food security in India” organized by FBAE, Bangalore at Hotel Bangalore International on 27th February, 2012.
 19. **R. Kavyashree** and Divya Shalini Aind. "Biofertilizer: A boon to nature from nature" at Second National Symposium on Innovative Approaches and Modern Technologies for Crop Productivity, Food Safety and Environmental sustainability" held at Thrissur, Kerala during November 19th - 20th, 2012.
 20. Attended State Level Conference on " Science and Technology for Societal Transformation" organized by KSTA during 19th - 20th December, 2012.
 21. Attended "Bangalore Bio, 2013" held at Lalit Ashok, Bangalore during 13th to 15th February, 2013.
 22. **R. Kavyashree**, Sneha S. Naik and Swati Verneker. Molecular assessment of mulberry SSRs in species of Moraceae family for identification and conservation presented at International Conference on Biodiversity, Bioresources and Biotechnology organized by Society of Applied Biotechnologists at Quorum Hotel, Mysore, during 30-31st January, 2013.
 23. Attended 103rd Indian Science Congress on " Science and Technology for Indegenous Development in India" during 3rd - 7th January, 2016.
 24. Attended the 2 day XI ISBA conference 'Powering Start- up enablers: Incubators, Accelerators, Innovation Clusters, Co-working spaces' at Pune on 10th & 11th September 2016.

13. Symposium/Seminars/Meetings attended: 8

1. Access to scholarly electronic journals/databases under UGC-Infonet held at Bangalore University, Bangalore during 29th -30th November 2004 organized by Information and Library Network (INFLIBNET) Centre, Ahmedabad in collaboration with Bangalore University.
2. ‘Jnanarjana, 2005’, National Symposium on recent trends in life science held at The Oxford Educational Institutions, Bommanahalli, Bangalore during 2nd - 3rd , 2005.

3. Exploring Entrepreneurship & Corporate Opportunities - Getting started on the career ladder held at The Oxford College of Science campus in Bangalore held on 13th October 2010.
4. Indo-Swiss Life Sciences Round Table organized by ABLE, Bangalore on 28th October, 2010.
5. Industry Academia Forum on Creating industry- ready talent for Biopharmaceutical industry at Biocon, Bangalore on 22nd July, 2011.
6. Workshop cum Seminar on Stake Holders involvement in formation of Sectoral Skill council for Education and Training at Hotel Chancery Pavilion on 6th August, 2011.
7. 77th Annual Meeting of Indian Academy of Sciences at Physical Research Laboratory, Ahmedabad during 17th – 20th November, 2011.
8. Workshop for College Principals on “Role of Principal in Achieving Excellence of Institution” by UGC-Human Resource Development Centre from 21st to 23rd September, 2015.
9. 103rd Indian Science Congress- “Science and Technology for Indigenous Development in India.” From 3rd Jan 2016 – 7th Jan 2016 at Mysore.

14. Journal Reviewer:

1. African Journal of Biotechnology (AJB)
2. African Journal of Microbiology (AJM)
3. Agricultural Science Research Journal (ASRJ)
4. International Research Journal of Biotechnology (IRJOB)
5. Physiology and Molecular Biology of Plants (PMBP)

15. Books published:

1. **Tissue culture studies in mulberry, 2010, Lambert Publishing Company, Germany. ISBN 978-3-8433-5166-9.**
2. **Plant Tissue Culture - Protocols in Plant Biotechnology, 2015. Narosa Publishing House Pvt., Ltd.,. ISBN 978-81-8487-443-3.**

16. Lectures delivered:

1. “Plant tissue culture – a versatile and viable tool” delivered lecture as Resource person at “Contemporary trends in animal sciences” the Second Refresher course in Zoology organized under the aegis of Department of Zoology and UGC-Academic Staff College, Bangalore University, Bangalore, during 9th – 29th March, 2005.
2. Plant metabolic engineering – Past, present & future” delivered lecture as invited speaker at “National conference on Biotechnology, Bioinformatics and Bioengineering” held at Dharmapuri, Tamilnadu during 17th – 18th December 2010.

17. Awards and Fellowships:

1. **Prof. R. P. Roy Prize** for the original research paper entitled “A repeatable protocol for the production of gynogenic haploid plants in mulberry variety-S₅₄” presented at the “Eighth All India Conference on Cytology and Genetics” held at Bangalore University, Bangalore during 28th–30th January, 2001.
2. **Fellow of Society of Sciences (F.S.Sc.)** by Society of Sciences, India, 2004.
3. **Fellow of Society of Applied Biotechnologists (FSAB)** by Society of Applied Biotechnologists, 2010.
4. **Jnana Fellowship** by Karnataka Knowledge Commission, Government of Karnataka, 2011.
5. **Young Scientist Award** for contributions made in the field of medicinal Plant Biotechnology at “3rd International Conference on medicinal Plants & Herbal products”

organised by Faculty of Medicine and the Institute of Indigenous medicine, University of Colombo, Colombo, Sri Lanka during 19th – 21st December, 2011.

6. 'Honorary Doctorate award' by Dr. Radhakrishnan Research and Development Centre, University of South America in 2016.

18. Membership of Professional Bodies:

1. Life Member – Society of Cytologists and Geneticists
2. Life Member – Society of Plant Cell Biotechnology & Molecular Biology
3. Life Member – Society of Sciences
4. Life Member – International Society of Plant Morphologists
5. Life Member – The Indian Science Congress Association
6. Life Member – Society of Applied Biotechnologists

19. Accomplishments:

a. External funds received – Rs. 73,62,000.00

(Workshop, SEC meeting, Women Scientist Scheme (WOS-A) DST, UGC, New Delhi, VGST, Department of IT, BT, S&T, Government of Karnataka, Karnataka Jnana Aayoga, Vidhana Soudha, Government of Karnataka)

b. Conferences organised:

1. **Organizing committee member**, “IFCON 1998” (International Food Convention) held at CFTRI, Mysore during December, 1998.
2. **Organising Committee Member**, “National Seminar on Bioprocessing and Fermentation Technology” held at Kristu Jayanti College during 23 – 25th March 2010.
3. **Organising Secretary**, “National conference on Plant diversity: Prospects and problems on Conservation” held at Kristu Jayanti College during 27th – 29th October, 2010.
4. **Organising Committee Member**, “National Workshop on Entrepreneurship in Life Sciences” held at Kristu Jayanti College during 10th – 11th October, 2011.
5. **Organizing Secretary**, Workshop on “Writing Research Proposals” sponsored by SERB, Department of Science and Technology, Ministry of Science and Technology, Government of India, New Delhi held at The Oxford College of Science, Bangalore on 31st October 2014.
6. **Organizing Chair, Faculty Development program** - Workshop on “Advances in *in vitro* cell culture and functional applications” sponsored by Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi held at The Oxford College of Science, Bangalore from 6th -10th July 2015.
7. **Organizing Chair, Faculty Development program on “Mind your Teaching”** by Mindsmart Learning Strategies, Bangalore held at The Oxford College of Science, Bangalore on 29th - 31st July, 2015.

c. Outreach activities:

As Co-ordinator/Member of Life Science club, conducted

1. Awareness programme in Kothanur village on H1N1 pandemic in 2010
2. Parthenium eradication programme in areas surrounding Kristu Jayanti College, 2010
3. Organic waste management programme to school students in Kothanur village,

2011

As Jnana Fellow, Karnataka Jnana Aayoga, Government of Karnataka

- Studied work-climate of the Department of Health & Family Welfare and Suggested measures for its improvement and bring in more accountability

d. Event Judge:

1. Biodesign at “National Symposium on Breakthrough in Molecular Diagnostics” organized by The Oxford Educational Institution under the aegis of Children’s Education Society during 22nd – 23rd March, 2007.
2. Poster session at “National Conference on molecular innovations in Food Processing and food safety management” organized by The Oxford Educational Institution in collaboration with IICPT during 4th - 5th April, 2010.
3. National level “Green India Competition” for PU Students, 2010

e. Other Contributions:

Initiated, planned and set up:

1. Molecular Biology Forum at Department of Molecular Biology, Bangalore University, Bangalore during 2007.
2. Jayantian Life Science Forum at Department of Life Sciences, Kristu Jayanti College, Bangalore during 2011.

As Co-ordinator of the forum I have organised various activities such as Award Lectures, Guest Lectures, Skill & Knowledge Development Programme and Industry interactions.

f. Other training programme undertaken:

1. Life Skill Education program conducted by Rajiv Gandhi Centre of Youth Development, Ministry of Youth Affairs Sports, Government of India, Sriperumbadur, Tamil Nadu and Centre for Life Skills Education, Kristu Jayanti College, Bangalore from 05-09th June, 2013.
2. Lean Six Sigma - Green Belt Certification course conducted by Asian Institute of Quality Management, Pune during 01 – 03rd May, 2014.

Date : 27.07.2017
Place : Bangalore

(Dr. R. Kavyashree)
Signature

