



Dr. B. D. RANJITHA KUMARI
UGC – BSR Faculty Fellow

Contact

Address : Department of Botany
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Tamil Nadu, INDIA

Date of Birth : 17.07.1959

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Academic Qualifications:

M.Sc., M.Phil., Ph.D.,

Teaching Experience: 25 Years

| | |
|-------------------------|---------------------------------|
| 2019 – Till Date | UGC – BSR Faculty Fellow |
| 2017 – 2019 | PROFESSOR AND HEAD |
| 2007 – 2017 | PROFESSOR |
| 1999 – 2007 | READER |
| 1994 – 1999 | SENIOR LECTURER |
| 1993 – 1994 | LECTURER |

Research Experience: 30 Years

| | |
|--------------------|---|
| 1989 – 1993 | SCIENTIST (Plant Physiology) Spices Board (Ministry of Commerce) Govt. of India, Myladumpara, 685553- Kerala |
| 1982-1984 | Senior Research Fellow ICMR Project National Institute for Communicable Disease (NICD), Rajahmundry, Andhra Pradesh. |

Additional Responsibilities

- | | |
|---|--------------------------|
| 1. Head of the Department from | 01.07.2017 to 31.07.2019 |
| 2. Coordinator- Centre of Excellence in Life Sciences | 2017 – Till Date |
| 3. Member – Academic Committee (Governor’s Nominee), Mother Teresa Women’s University, Kodaikanal. | 2017 to till date |
| 4. Member – Syndicate (Governor’s Nominee), Manonmaniam Sundaranar University, Tirunelveli, T.N. | 2012 to 2015 |
| 5. UGC XII Plan- Member in Merged Scheme: (Remedial Coaching) | 2012 – 2016 |
| 6. Deputy Co-ordinator UGC-SAP | 2014 – 31.03.2018 |
| 7. Member Secretary - IBSC | 2012 – 2015 |
| 8. Convener - Equal Opportunity Cell | 2012 – 2014 |
| 9. Controller of Examinations, Department of Plant Science | 2005 – 2006 |
| 10. Deputy Warden, University Hostel | 2000 – 2001 |

Areas of Research

- ❖ Plant Stress Physiology and Biochemistry
- ❖ Plant Tissue Culture
- ❖ Plant Genetic Transformation
- ❖ Nanotechnology in Medicinal and Crop Plants

Research Supervision / Guidance

| Program of Study | | Completed | Ongoing |
|------------------|---------|-----------|---------|
| Research | Ph.D. | 18 | 6 |
| | M.Phil. | 9 | 0 |
| Project | PG | 55 | 3 |

Guided Dr. D.S. Kothari UGC - Post Doctoral Fellow 1

Publications

| International | | National | | Others | |
|---------------|-------------|----------|-------------|--------|---------------|
| Journals | Conferences | Journals | Conferences | Books | Book Chapters |
| 91 | 38 | 32 | 114 | 3 | 3 |

| | | |
|---------------------------------------|---|------|
| Cumulative Impact Factor (as per JCR) | : | 62 |
| h - index | : | 18 |
| i-10 index | : | 37 |
| Total Citations | : | 1149 |

Funded Research Projects

Completed Projects

| S. No | Agency | Period | | Project Title | Budget (Rs. In lakhs) |
|-------|--------|--------|------|--|-----------------------|
| | | From | To | | |
| 1 | UGC | 2013 | 2017 | Enhancement of repellence activity in <i>Artemisia vulgaris</i> (L.) to control yellow fever mosquitoes <i>Aedes aegypti</i> through <i>in vitro</i> precursor and <i>Agrobacterium rhizogenes</i> . | 14.208 |
| 2 | DBT | 2008 | 2011 | Development of <i>Alternaria carthami</i> disease resistant transgenic plants of safflower through overexpression of chitinase gene disease resistance | 29.37 |
| 3 | UGC | 2008 | 2011 | <i>In vitro</i> regeneration and development of <i>Alternaria carthami</i> resistant Safflower (<i>Carthamus tinctorius</i> L.) plant | 9.368 |
| 4 | TNSCST | 2007 | 2009 | Phytoremediation: Reclamation of mercury contaminated soil through <i>Catharanthus roseus</i> (L.) G. Don | 1.54 |
| 5 | UGC | 2003 | 2006 | <i>In vitro</i> regeneration, salt tolerance, <i>Agrobacterium</i> mediated hairy root production in <i>Rauvolfia tetraphylla</i> L. | 4.305 |
| 6 | UGC | 2001 | 2002 | Effect of Textile dye effluent on growth and development of groundnut. | 0.15 |

| | | | | | |
|----|-----|------|------|--|------|
| 7 | UGC | 1998 | 1999 | <i>In vitro</i> selection of salt tolerance in Soybean <i>Glycine max</i> (L.) Merr. | 0.12 |
| 8 | UGC | 1996 | 1997 | Effect of tannery effluent on seed germination and seedling development of Soybean [<i>Glycinemax</i> (L.) Merr.] | 0.15 |
| 9 | UGC | 1994 | 1995 | Response of Betel Vine to growth regulators | 0.06 |
| 10 | UGC | 1993 | 1994 | Effect of Insecticides on pollen germination and tube elongation in some minor spices | 0.05 |

Distinctive Achievements / Awards

1. Awarded **UGC - BSR Faculty Fellowship** for the period 2019 – 2022
2. **Shiksha Rattan Puraskar (2011)** for outstanding services, achievements and contributions: Honoured by “**India International Friendship Society**”, New Delhi-110001.
3. Inspirational Women of the Year – 2018 presented by Intellectual forum, Vijayawada.

Events organized in leading roles

Number of Conferences organized: 3

Role: Organising Secretary

1. National Seminar on “Science and Society – Challenges in Biotechnology” (2019) Sponsored by UGC SAP DRS - II
2. Emerging Trends in Plant Science (2016) Sponsored by UGC-SAP, DBT, DST – SERB.
3. Recent trends in crop improvement for suitable development (2000) Sponsored by UGC, CSIR, DST, BARC

Number of Refresher Courses Conducted: 3

Role: Coordinator

| S. No | Theme | Year | Date | | Sponsoring Agency |
|-------|--|------|------------|-----------|-------------------|
| | | | From | To | |
| 1 | Plant Breeding, Plant Biotechnology and Biochemistry | 2000 | 10.3.2000 | 30.3.2000 | UGC |
| 2 | Biosciences | 2005 | 15.11.2005 | 5.12.2005 | UGC |
| 3 | Plant Physiology and Biochemistry | 1997 | 21.1.1997 | 17.2.1997 | UGC |

Events Participated & Presented Research Papers

Conferences / Seminars / Workshops:

International: 39 National: 114

1. **On invitation by the ECSITE (European Network Science Centres & Museums)** presented a paper *“Role of Universities in combating Social Exclusion for Community Empowerment and Social Inclusion: An Indian Experience”* in the 2nd HEIRRI conference on “Education towards a responsible society, transforming Universities through RRI” on 27-04-2018 at **Vienna, Austria.**
2. **B. Sundararajan, B. D. Ranjitha Kumari.** Composition of the leaf essential oil of *Artemisia vulgaris* L. and its larvicidal and repellent activity against the dengue fever vector *Aedes aegypti* L. **XXVI Annual Conference of Indian Association for Angiosperm Taxonomy and International Seminar on Conservation and Sustainable Utilization of Biodiversity** 7th – 9th November, 2016 Organized by Shivaji University, Kolhapur (MS) India.
3. **B. Sundararajan, B. D. Ranjitha Kumari.** Novel Synthesis of gold nanoparticles in leaf extract of *Artemisia vulgaris* L. and their efficacy on larvicidal activity and repellent activity against dengue fever vector *Aedes aegypti* L. **Fourth International Conference on Nanomedicine and Tissue Engineering (ICNT – 2016).** Held in Mahatma Gandhi University, Kottayam during 12th to 14th August 2016.
4. G. Mahendran, B. Sundararajan, N. Parimala Devi, V. Narmatha Bai, **B. D. Ranjitha Kumari.** The green synthesis, characterization and evaluation of the biological activities of silver nanoparticles synthesized from *Nothapodytes nimmoniana* (Graham) Mabb fruit extracts. **International Conference on Advances in Micro/Nanotechnologies for Biological Applications.** Held in PSG Institute of Advanced Studies, Coimbatore during 7th and 8th August 2015.
5. B.Sundararajan, G.Mahendran and **Ranjitha Kumari B.D.** Characterization, Antioxidant and Antibacterial Activity of Green Synthesized Gold Nanoparticles of *Artemisia vulgaris* L. **International Conference on Advances in Micro/Nanotechnologies for Biological Applications.** Held in PSG Institute of Advanced Studies, Coimbatore during 7th and 8th August 2015.
6. B. Sundararajan and **Ranjitha Kumari B.D.** Effect of lead nitrate on morphological and biochemical parameters of *Trigonella foenum-graecum* L. **24th Annal Conference of Indian Association for Angiosperm and Taxonomy (IAAT) and International Conference on Trends in Plant Systematics.** Held in Bharathidasan University, Trichy during 31st and 2nd November 2014.
7. M. Prathap and **Ranjitha Kumari B.D.** Identification of volatile compounds produced by the Enterobacter species that inhibit the growth of fungal pathogen. **“24th Annal Conference of Indian Association for Angiosperm and Taxonomy (IAAT) and International Conference on Trends in Plant Systematics”.** Held in Bharathidasan University, Trichy during 31st and 2nd November 2014.
8. C.Janani and **Ranjitha Kumari B.D.** Enumeration of NaCl illness on multiplication of shoot induction by ethyl methanesulphonate (EMS) treatment in *Arabidopsis thaliana* (L.)

Heynh. “**24th Annal Conference of Indian Association for Angiosperm and Taxonomy (IAAT) and International Conference on Trends in Plant Systematics**”. Held in Bharathidasan University, Trichy during 31st and 2nd November 2014

9. **Ranjitha Kumari B.D.** has chaired a session on Systemics of Flowering Plants and Phylogeny in the “**24th Annal Conference of Indian Association for Angiosperm and Taxonomy (IAAT) and International Conference on Trends in Plant Systematics**”. Held in Bharathidasan University, Trichy during 31st and 2nd November 2014.
10. B.Sundararajan, C.Janani and **Ranjitha Kumari B.D.** Effect of farnesyl di phosphate on beta caryophyllene content in the calli of *Artemisia vulgaris*. “**International Conference on Mordern Progress in Biotechnology**” held in Anna University, Trichy during 9th and 10th,October 2014.
11. M. Prathap, C.Janani and **Ranjitha Kumari B.D.** Bacterial volatile effect of tobacco rhizospheric soil PGPR against *Rhizoctonia solani*. “**International Conference on Mordern Progress in Biotechnology**” held in Anna University, Trichy during 9th and 10th,October 2014.
12. C. Janani, M. Prathap, B. Sundararajan and **Ranjitha Kumari B.D.** *In vitro* regeneration and biohardening of soybean (JS335) variety. “**International Conference on Mordern Progress in Biotechnology**” held in Anna University, Trichy during 9th and 10th,October 2014.
13. C. Janani and **Ranjitha Kumari B.D.** *In vitro* plant regeneration from cotyledonary node and half seed explants of *Glycine max L.* (JS 335). **International conference on Biotechnology and Human Welfare 2013** held in Sastra University held in Thanjavur during 6th -8th, December 2013.
14. T. Rajani, P. Ratna Kumar, **Ranjitha Kumari B.D.**, S. N. Nigam and V. Vadez. Impact of Nitrogen accumulation (low and high N content) in sixteen groundnut genotypes (*Arachis hypogaea L.*) under different water regims. **International Conference on Interdrought –Iv Conference** held in Crown Perth, Western Australia during 2nd -6th September 2013.
15. B. D. Ranjitha Kumari and S. Pradeep Kumar. *Agrobacterium* mediated transformation of Safflower (*Carthamus tinctorius L.*) with a rice chitinase gene. **International Conference on Safflower Research and Development in the World: Status and Strategies** held in Hyderabad during 9th January, 2012.
16. Radhakrishnan.R and. **Ranjitha Kumari, B.D.** Role of Magnetic field on Food Technology: An analysis in Soybean (*Glycine max L.*) **International conference on Food Technology held in Indian Institute of Crop Processing Technology** during 30th -31st, October 2010.
17. Radhakrishnan.R and. **Ranjitha Kumari, B.D.** Enhancement of Soybean Seed Germination, Plant Growth and Yield by Magnetic field treatments. **International Symposium on Sustainable Agricultural for Subtropical Regions (ISSASR-2)**, Changsha held in Institute of Subtropical Agriculture, CAS, Changsha, Hunan, China during 15-18th, September 2010.
18. **Ranjitha Kumari, B.D.** Participated in the **International conference on Drug Delivery** held in PSG College of Pharmacy, Coimbatore during 29th and 30th, January 2010.

19. Pradeep Kumar S. and **Ranjitha Kumari B.D.** **International conference on Biology, Environment and Chemistry-ICBEC 2010** at Hong Kong during 28-30, December 2010.
20. Pradeep Kumar.S and **Ranjitha Kumari, B.D.** Effect of aminoacids and growth regulators on Callus, Multiple shoot and Root Induction in *Artemisia vulgaris*. L. **International Conference on Emerging Trends in Biotechnology (ETBT-2009)** in Banaras Hindu University, Varanasi, during 4-6th, December 2009.
21. Pradeep Kumar S. and **Ranjitha Kumari B.D.** DNA finger printing in coconut using SSR markers. **International conference on Biotechnology** held in School of Biotechnology, Chemical and Biomedical Engineering, VIT University, Vellore during 6-8 Feb. 2008.
22. Arun Mozhi Varman P. and **Ranjitha Kumari B.D.** Analysis of heat shock proteins (HSPs) expression during Cadmium stress on *Catharanthus roseus* (L.) G.Don. **International symposium on genomic and proteomic approaches to decipher the molecular basis of pathogenesis** held in Department of Zoology, Osmania University, Hyderabad during 28-30 Dec. 2007.
23. Anitha S. and **Ranjitha Kumari B.D.** Micropropagation of *Rauvolfia tetraphylla* L. Effect of explant type, phytohormones and AgNO₃ on organogenesis. **International Conference on opportunities and Challenges in Biotechnology and Environmental Science** held in the Dept. of Botany, Vellalar College for women, during 22-23 Feb, 2007.
24. Sujatha G. and **Ranjitha Kumari B.D.** Preservation of plant genetic resources – A report. **International Conference on Biotechnological approaches in Bioresource management** held in the Dept. of Biotechnology, Bharathidasan University, Tiruchirappalli during 23-26 Jan, 2007.
25. Nandagopal S. and **Ranjitha Kumari B.D.** Chemical components and biological activity of essential oil of chicory (*Cichorium intybus* L.). **International Conference on Biotechnological approaches in Bioresource management** held in the Dept. of Biotechnology, Bharathidasan University, Tiruchirappalli during 23-26 Jan, 2007.
26. Arun Mozhi Varman P. and **Ranjitha Kumari B.D.** Effect of mercury on the activities of Reactive Oxygen Species and antioxidant enzymes of *Catharanthus roseus* (L.) Don. **International Conference on Biotechnological Approaches in Bioresource Management** held in the Dept. of Biotechnology, Bharathidasan University, Tiruchirappalli during 23-26 Jan, 2007.
27. **Ranjitha Kumari, B.D.** and Sujatha, G. Multiple shoot induction in *Artemisia vulgaris* L. **International Conference on “Genetics and Biotechnology”** held at the Dept. of Botany, Osmania University, Hyderabad from 8-10 Jan , 2006.
28. Nandagopal, S. and **Ranjitha Kumari, B.D.** *In vitro* salt tolerant plantlet regeneration and flowering of chicory (*Cichorium intybus* L.). **International Conference on “Genetics and Biotechnology”** held at the Dept. of Botany, Osmania University, Hyderabad from 8-10 Jan, 2006.

29. Anitha, S. and **Ranjitha Kumari, B.D.** Effect of AgNO₃ on shoot induction and growth in *Rauvolfia tetraphylla* L. **International Conference on “Genetics and Biotechnology”** held at the Dept. of Botany, Osmania University, Hyderabad from 8-10 Jan, 2006.
30. Velayutham, P. and **Ranjitha Kumari, B.D.** Auxin induced hairy root culture in *Cichorium intybus* L. “Biology in Asia - **International conference**” held at the National University of Singapore, Singapore from 7 – 10 Dec, 2004.
31. **Ranjitha Kumari, B.D.** and Anitha, S. Multiple shoot induction and *in vitro* flowering in *Rauvolfia tetraphylla* L. “Biology in Asia - **International conference**” held at the National University of Singapore, Singapore from 7 – 10 Dec, 2004.
32. Delivered an **Invited talk** on “Abiotic stress tolerant transgenics” in the **International Seminar on “Challenges and Applications in Biotechnology”** held at School of Life sciences, Thanthai Hans Roever College, Perambalur, Tamil Nadu, on 4-6 March 2004.
33. Raja Mohan Rao, K. and **Ranjitha Kumari, B.D.** Water pollution and health hazards in rural India: Needs for health education. **2nd International conference on “Environment and Health”** at Karnataka Environment Research Foundation, Bangalore on 4-6 Dec, 2000.
34. Kamaraj, M. and **Ranjitha Kumari, B.D.** Proline metabolism during water stress in Betel Vine (*Piper betel* L.) cultivar SGM1. “**International conference in Life Science in Next Millennium**” held at University of Hyderabad on Dec 11-14.1999.
35. Raja Mohan Rao, K., Kennedy Ondiba Ongaro and **Ranjitha Kumari, B.D.** Water pollution and health hazards in rural India – need for safe drinking water. **International Conference on “Environment and Health”** held at Indian Institute of Sciences, Bangalore on 14 to 16 Dec, 1998.
36. Velayutham, K.K, Raja Mohan Rao, K. and **Ranjitha Kumari, B.D.** Soil pollution causes, consequences and remedial measures. **International Conference on “Environment and Health”** held at Indian Institute of Sciences, Bangalore on 14 to 16 Dec, 1998
37. Kamaraj, M., **Ranjitha Kumari, B.D.**, Saraswathi, N. and Rohini, D.K. Effect of distillery spent wash on growth and development of soybean (*Glycine max.(L).Merr.*). **International Symposium on “Bio-Industry”** held at AVVM Sri Puspham College, Poondi on 8 to 10 Jan, 1998.
38. Settu, A. and **Ranjitha Kumari, B.D.** Selection and characterization of salt tolerant cell lines of soybean (*Glycine max. (L).Merr.*). **International Symposium on “Bio-Industry”** held at AVVM Sri Puspham College, Poondi on 8 to 10 Jan, 1998.
39. **Ranjitha Kumari, B.D.** and Rohini, D.K. Effect of distillery spent wash on growth and development of soybean (*Glycine max (L).Merr.*). **International Symposium on “Bio-Industry”** held at AVVM Sri Puspham College, Poondi on 8 to 10 Jan, 1998.

National:

1. G. Mahendran and **B.D.Ranjitha Kumari**. Micropropagation of *Nothapodytes nimmoniana* (Graham) Mabb an important anticancer plant. National conference on recent advances in Plant Science held on 9th and 10th March 2017 at Bharathidasan University, Tiruchirappalli.
2. Dr. B.D.Ranjitha Kumari, Professor, Department of Plant Science sessioned a chair for oral presentations in “**National Conference on Recent Advances in Plant Science**” held on 9th and 10th March 2017 in Dept. of Plant Science, Bharathidasan University.
3. G. Mahendran and B.D. Ranjitha Kumari. Micropropagation of *Nothapodytes nimmoniana* (Graham) Mabb. An important anticancer plant. “**National Conference on Recent Advances in Plant Science**” held on 9th and 10th March 2017 in Dept. of Plant Science, Bharathidasan University
4. Anitha. S, Sujatha. G and **Ranjitha Kumari. B.D.** Preliminary phytochemical screening of medicinal plants for secondary metabolites. National Conference on “**Emerging Trends in Plant Science**” held on 10th and 11th March 2016 in Dept. of Plant Science, Bharathidasan University.
5. Sujatha G. and **Ranjitha Kumari B. D.** A simple and cost-effective liquid culture system for the micropropagation of *Artemisia vulgaris* L. National Conference on “**Emerging Trends in Plant Science**” held on 10th and 11th March 2016 in Dept. of Plant Science, Bharathidasan University
6. Santanu Das and **Ranjitha Kumari B. D.** Antimicrobial effects of medicinal plant extracts on Human pathogenic microorganisms. National Conference on “**Emerging Trends in Plant Science**” held on 10th and 11th March 2016 in Dept. of Plant Science, Bharathidasan University.
7. Kalavani S., Mahendran, G. and **Ranjitha Kumari B. D.** Chemical composition, antioxidant, antimicrobial and larvicidal activities of essential oils from leaves of *Ocimum americanum* L. National Conference on “**Emerging Trends in Plant Science**” held on 10th and 11th March 2016 in Dept. of Plant Science, Bharathidasan University.
8. Sundararajan, B., Mahendran, G., Thamaraiselvi. R. and **Ranjitha Kumari B.D.** Biological activities of synthesized silver nanoparticles from *Cardiospermum halicacabum* L. National Conference on “**Emerging Trends in Plant Science**” held on 10th and 11th March 2016 in Dept. of Plant Science, Bharathidasan University.
9. Anil Kumar Moola, Senthil Kumar T. and **Ranjitha Kumari B. D.** Eco-friendly synthesis of fluorescent silver nanoparticles by using aqueous soluble seed coat secondary metabolites of *Celastrus paniculatus* Willd. National Conference on “**Emerging Trends in Plant Science**” held on 10th and 11th March 2016 in Dept. of Plant Science, Bharathidasan University.
10. Mahendran, G. and **Ranjitha Kumari B. D.** *Nathapodytes nimmoniana* (Graham) Mabb. : Botany, Traditional usage, phytochemistry and pharmacology of an important anticancer plant. National Conference on “**Emerging Trends in Plant Science**” held on 10th and 11th March 2016 in Dept. of Plant Science, Bharathidasan University.

11. Prathap M. and **Ranjitha Kumari B. D.** *In vitro* antagonist activity, plant growth traits of tobacco rhizosphere soil bacteria. National Conference on “**Emerging Trends in Plant Science**” held on 10th and 11th March 2016 in Dept. of Plant Science, Bharathidasan University.
12. Janani, C. and **Ranjitha Kumari B.D.** Cloning and Transformation of Peroxisome Proliferator Activated Receptor Gamma Gene using *Agrobacterium tumefaciens* into *Glycine max* L. Merr. National Conference on “**Emerging Trends in Plant Science**” held on 10th and 11th March 2016 in Dept. of Plant Science, Bharathidasan University.
13. Sundararajan, B., Mahendran, G. and **Ranjitha Kumari B.D.** Establishment of hairy root culture through *Agrobacterium rhizogenes* mediated transformation and beta caryophyllene content in *Artemisia vulgaris* L. using GC-MS. National Conference on “**Emerging Trends in Plant Science**” held on 10th and 11th March 2016 in Dept. of Plant Science, Bharathidasan University.
14. Delivered an Invited Talk on “Biotechnology – Biodiversity Conservation” in the National Conference on “**Plant Diversity: Challenges in Conservation and Sustainable Utilization**” held at Kakatiya University, Warangal, Telangana, on 4th to 6th Feb, 2016.
15. Prathap M. and **Ranjitha Kumari B. D.**, Antagonistic effect of tobacco rhizospheric soil PGPR against *Rhizoctonia solani*. **National Conference on “Recent trends in Bioprospecting of Plants**” held on 28th and 29th March 2014 in Dept. of Plant Science, Bharathidasan University.
16. Janani. C and **Ranjitha Kumari B. D.**, “ Isolation and Identification of PPAR Gamma Gene in *Abutilon indicum* (L.) Sweet. **National Conference on “Recent Trends in Bioprospecting of Plants**” held on 28th and 29th March 2014 in Dept.of Plant Science, Bharathidasan University.
17. Ragavendra Rao S., **Ranjitha Kumari B. D.**, Phanindra M.L.V., Vikrant Nain, Singh V. K., Dhandapani G., Padaria J.C., Solanke A.U., Ananda Kumar P. “Creating double strand breaks using ZFNs: a promising method for homologous recombination and gene targeting”. **National Conference on Plant Recent trends in Plant Biotechnology** held on 27th-28th Feb 2013 in Dept. of Plant Science, Bharathidasan University.
18. S. Manigandan and **B. D. Ranjitha Kumari**. Recent advances in RNA interference mediated gene silencing in plants for crop improvement. **National Conference on plant Recent trends in plant Biotechnology**. Held on 27th-28th Feb 2013 in Dept. of plant science, Bharathidasan University.
19. B. Sundararajan and **B. D. Ranjitha Kumari**. *In vitro* shoot induction of *Lagerstroemia speciosa* (L.) Pers using nodal explants. National Conference on **Recent trends in plant Biotechnology**. Held in Dept. of plant science, Bharathidasan University, on 27th to 28th feb, 2013.
20. B. Sundararajan and **B. D. Ranjitha Kumari**. Biosynthesis of silver nanoparticles in *Lagerstroemia speciosa* (L.) Pers and evaluation of their antimicrobial activities. **International Conference on sustainable utilization, management and conservation of bioresources**.held in Department of Plant Science, St. Joseph’s college, Trichy on 10th and 11th January 2013.

21. M. Nimmi and **B. D. Ranjitha Kumari**. Regeneration of Safflower (*Carthamus tinctorius* L.). **National conference on Phytomedicine**, held in Dept of Botany, Bharathiar University during 4th- 5th October, 2012.
22. **B. D. Ranjitha Kumari**, participated in the National Level Workshop on **Interpretation of Spectral Data and Identification of Phytoconstituents**, held in Karpagam University, Coimbatore during 17 and 18th Feb 2012.
23. S.Pradeep Kumar and **Ranjitha Kumari B.D.** *In vitro* and *In vivo* protein profile studies in *Artemisia vulgaris* L. **Golden Jubilee Conference on “ Challenges and Emerging Strategies for Improving Plant Productivity”**. IARI, New Delhi. 12-14th November 2008.
24. Arun Mozhi Varman P. and **Ranjitha Kumari B.D.** Analysis of leaf proteome of *Catharanthus roseus* (L.) G. Don., under chromium stress. **National Seminar on Plant Physiology** held in --- Dapoli during 29&30th Nov. and 1st December, 2007.
25. Anitha S. and **Ranjitha Kumari B.D.** Effect of light and sucrose concentrations on reserpine accumulation in *Rauvolfia tetraphylla* L. **Regional Seminar on Recent Trends in Biotechnology and its role in utilization of Biodiversity** held in the PG and Research Dept. of botany, Jamal Mohamed College, Trichy during 5-6 March, 2007.
26. Nandagopal S. and **Ranjitha Kumari B.D.** *Agrobacterium rhizogenes* mediated transformation and production of secondary metabolites in *Cichorium intybus* L. **Regional Seminar on Recent Trends in Biotechnology and its role in utilization of Biodiversity** held in the PG and Research Dept. of botany, Jamal Mohamed College, Trichy during 5-6 March, 2007.
27. Nandagopal S. and **Ranjitha Kumari B.D.** Cytotoxic activity of chicory (*Cichorium intybus* L.) against human cancer cell lines. **National Seminar on Emerging Trends in Biochemistry – Health and diseases**, held in the Dept. of Biochemistry, Periyar University, Salem during 26-27 Feb, 2007.
28. Vijaya Kumar J. and **Ranjitha Kumari B.D.** Effect of cytokinins on shoot organogenesis of safflower (*Carthamus tinctorius* L.) cv. A1. **National Symposium on Frontiers in Biotechnology** held in the Dept. of Biotechnology, Bharathiar University, Coimbatore during 8-9 Feb, 2007.
29. Nandagopal S. and **Ranjitha Kumari B.D.** Production of essential oils by transformed hairy root culture, antibacterial and cytotoxic activity of chicory (*Cichorium intybus* L.). **National Symposium on Frontiers in Biotechnology** held in the Dept. of biotechnology, Bharathiar University, Coimbatore during 8-9 Feb, 2007.
30. Anitha S. and **Ranjitha Kumari B.D.** Callus induction and reserpine accumulation studies in two endangered *Rauvolfia* (Apocynaceae) sps. **National Symposium on Frontiers in Biotechnology** held in the Dept. of biotechnology, Bharathiar University, Coimbatore during 8-9 Feb, 2007.
31. Nandagopal S. and **Ranjitha Kumari B.D.** Antibacterial activity of chicory. **National Symposium on current trends in the development of herbal drugs and biomedical scientists** held in the Tropical Botanical Garden and Research Institute, Palode, Thiruvananthapuram, Kerala during 25-27 Nov, 2006.
32. Arun Mozhi Varman P. and **Ranjitha Kumari B.D.** Phytoremediation aptitude of *Catharanthus roseus* (G.) Don. on mercury removal. **National Symposium on Issues and**

Challenges for conservation of plants and ecosystems in India. Dept. of Botany, Shillong University, 2-3 Nov, 2006.

33. **Ranjitha Kumari B.D.** Participated in the **National Workshop on “Patent awareness”** held at St. Joseph’s College, Tiruchirappalli on April 07, 2006.
34. **Ranjitha Kumari, B.D.** and Anitha, S. Bioprospecting and benefit sharing. **National Seminar on “Forest Biodiversity Resources: Exploitation, Conservation and Management”** held at Madurai Kamaraj University, from 21-22 March, 2006.
35. Radhakrishnan, R., Sheik Abdullah, A., Raja, G. and **Ranjitha Kumari, B.D.** Modulatory changes in enzyme activity in salt stressed and salt alleviated *Glycine max* (L.) Merr. By growth regulator (N- Triacontanol). **National Seminar on “Advances in Enzymology”** organized by the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli from 9-10 March 2006.
36. Arun Mozhi Varman, P. Krishnamurthy, K.V. and **Ranjitha Kumari, B.D.** Assessment of genetic variation in *Rubia cordifolia* L. using Isozyme data. **National Seminar on “Advances in Plant Sciences”** held in the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli during 24-25 Feb, 2006.
37. Radhakrishnan, R. Sheik Abdullah, S. and **Ranjitha Kumari, B.D.** Toxic effect of soil salinity alleviated by growth regulator (N- triacontanol) in soybean plant. **National Seminar on “Advances in Plant Sciences”** held in the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli during 24-25 Feb, 2006.
38. Saravanamoorthy, M.D. and **Ranjitha Kumari, B.D.** Impact of textile effluent on morphology and yield of peanut (*Arachis hypogaea* L.) cv. TMV – 10 and JL – 24. **National Seminar on “Advances in Plant Sciences”** held in the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli during 24-25 Feb, 2006.
39. Anitha, S. and **Ranjitha Kumari, B.D.** 2,4-D with NAA induced more reserpine accumulation in the callus of *Rauvolfia tetraphylla* L. **National Seminar on “Advances in Plant Sciences”** held in the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli during 24-25 Feb, 2006.
40. Nandagopal, S. and **Ranjitha Kumari, B.D.** Effect of plant growth regulators on *in vitro* callus induction, plantlet regeneration and flowering of *Cichorium intybus* L. cv. Focus – A potential medicinal plant. **National Seminar on “Advances in Plant Sciences”** held in the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli during 24-25 Feb, 2006.
41. Vijayakumar, J. and **Ranjitha Kumari, B.D.** Indirect somatic embryogenesis from proembryogenic calli in different explants of safflower (*Carthamus tinctorius* L.) cv. NARI – 6. **National Seminar on “Advances in Plant Sciences”** held in the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli during 24-25 Feb, 2006.
42. Sujatha, G. and **Ranjitha Kumari, B.D.** Effect of phytohormones on multiple shoot induction and plantlet regeneration in *Artemisia vulgaris* L. – A valuable medicinal plant. **National Seminar on “Advances in Plant Sciences”** held in the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli during 24-25 Feb, 2006.
43. Geetha, S., **Ranjitha Kumari, B.D.** and Jayabalan, N. Regeneration of *Solanum nigrum* - a multipurpose medicinal plant. **National Seminar on “Advances in Plant Sciences”** held in the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli during 24-25 Feb, 2006.

44. Arun Mozhi Varman, P. and **Ranjitha Kumari, B.D.** Phytoremediation: mercury tolerance on *Catharanthus roseus* (L.) Don. **National Seminar on “Advances in Plant Sciences”** held in the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli during 24-25 Feb, 2006.
45. Raja, G. and **Ranjitha Kumari, B.D.** Reclamation of waste lands using *Jatropha curcas* L. with biofertilizers. **National Seminar on “Advances in Plant Sciences”** held in the Dept. of Plant Sciences, Bharathidasan University, Tiruchirappalli during 24-25 Feb, 2006.
46. Radhakrishnan, R., Dharmaraj, K. and **Ranjitha Kumari, B.D.** Assessment of polluted water in Sivakasi. **National Conference on Environment and sustainable development** organized by the Dept. of Environmental Management, Bharathidasan University during 16-17 Feb, 2006.
47. Saravanamoorthy, M.D. and **Ranjitha Kumari, B.D.** Impact of textile effluent on physiological and biochemical changes of two peanut varieties (*Arachis hypogaea* L.) cv. TMV – 10 and JL – 24. **National Conference on Environment and sustainable development** organized by the Dept. of Environmental Management, Bharathidasan University during 16-17 Feb, 2006.
48. Raja, G. and **Ranjitha Kumari, B.D.** Response of *Jatropha curcas* L. to biofertilizers. **National Conference on “Environment and sustainable development”** organized by the Dept. of Environmental Management, Bharathidasan University during 16-17 Feb, 2006.
49. Anitha, S. and **Ranjitha Kumari, B.D.** Use of bioreactors for the production of plant secondary metabolites. **National Seminar on “Recent Trends in Biotechnology - Biopioneer’ 05”** held at the Dept. of Biotechnology, Srimad Andavan arts and Science College, Tiruchirappalli during 30th Sep and 1st Oct, 2005.
50. Vijayakumar, J. and **Ranjitha Kumari, B.D.** Identification of antibacterial sensitivity of crude extracts of *Cleome gynandra* L. **National Seminar on “Recent Trends in Biotechnology -Biopioneer’ 05”** held at the Dept. of Biotechnology, Srimad Andavan arts and Science College, Tiruchirappalli during 30th Sep and 1st Oct, 2005.
51. Raja, G., **Ranjitha Kumari, B.D.** and Mareeswari, G. *In vivo* and *in vitro* studies on *Trigonella foenum –graecum* L. under AgNO₃ treatment. **National Seminar on “Recent Trends in Biotechnology-Biopioneer’ 05”** held at the Dept. of Biotechnology, Srimad Andavan arts and Science College, Tiruchirappalli during 30th Sep and 1st Oct, 2005.
52. Anitha, S. and **Ranjitha Kumari, B.D.** Use of plant tissue culture for germplasm storage. **National seminar on “Present scenario in plant science research”** held at the Dept. of Botany Annamalai University, Annamalai Nagar on 19 – 20 Feb, 2005.
53. Delivered an **Invited talk** on “Development of Abiotic stress tolerant transgenic plants” in the **state level seminar on “Recent scopes in biosciences, Biopearl ‘05”** held at the Dept. of Biochemistry, Dhanalakshmi Srinivasan College, perambalur, Tamil Nadu on 18th Feb, 2005.
54. Sujatha, G. and **Ranjitha Kumari, B.D.** Women entrepreneurs: A perspective. **National seminar on women entrepreneurship – issues and challenges** held at the Dept. of Economics, Bharathidasan University, Tiruchirappalli on 21 – 22 January 2005.
55. **Ranjitha Kumari, B.D.** Intellectual property rights for Biotechnology. **National seminar on role of universities in intellectual property education, research and public outreach**

held at the Dept. of Economics, Gandhigram rural institute, Gandhigram, Tamil Nadu on 6 – 7 January, 2005.

56. Sujatha, G., **Ranjitha Kumari, B.D.** and Anitha, S. *In vitro* callus induction in *Artemisia vulgaris* L. **National Seminar on “Plant Physiology”** held at the Dept. of Botany, University of Pune, Pune, Maharashtra on 27 – 29, Dec, 2004.
57. Anitha, S., **Ranjitha Kumari, B.D.** and Sujatha, G. Influence of salt stress on phenolic compounds accumulation in *Trigonella foenum-graecum* L. **National Seminar on “Plant Physiology”** held at the Dept. of Botany, University of Pune, Pune, Maharashtra on 27 – 29, Dec, 2004.
58. Velayutham, P., **Ranjitha Kumari, B.D.** and Anitha, S. Auxin induced hairy root culture in *Cichorium intybus* L. **National Seminar on “Plant Physiology”** held at the Dept. of Botany, University of Pune, Pune, Maharashtra on 27 – 29, Dec, 2004.
59. Velayutham, P. and **Ranjitha Kumari, B.D.** Comparative pharmacognosy study in *in vivo* and *in vitro* chicory plants (*Cichorium intybus* L.) **National Symposium on “Recent trends in Plant Sciences”** held at the Dept. of Botany, Sri Krishnadevaraya University, Anantapur, Andhra Pradesh on 29 – 31, Oct, 2004.
60. Velayutham, P., Manimuthu, C., Kala, K. and **Ranjitha Kumari, B.D.** Micropropagation of *Coccinia grandis* (L.) Voigt. through nodal explant of field grown stems. **National Symposium on “Recent Trends in Plant Biotechnology”** held in the Dept. of Plant Science, Bharathidasan University, Tiruchirappalli on 22-23 March 2004.
61. Velayutham, P., Parameswari, A., Kala, K. and **Ranjitha Kumari, B.D.** Plant regeneration from cotyledon explants of *Clitoria ternatea* L. **National Symposium on “Recent Trends in Plant Biotechnology”** held in the Dept. of Plant Science, Bharathidasan University, Tiruchirappalli on 22-23 March 2004.
62. Velayutham, P. and **Ranjitha Kumari, B.D.** Plant regeneration from cotyledonary explants of chicory (*Cichorium intybus* L.). **National Symposium on “Recent Trends in Plant Biotechnology”** held in the Dept. of Plant Science, Bharathidasan University, Tiruchirappalli on 22-23 March 2004.
63. Nandagopal, S. and **Ranjitha Kumari, B.D.** *In vitro* callus induction in *Cichorium intybus* L. **National Symposium on “Recent Trends in Plant Biotechnology”** held in the Dept. of Plant Science, Bharathidasan University, Tiruchirappalli on 22-23 March 2004.
64. Vijaya kumar, J. and **Ranjitha Kumari, B.D.** *In vitro* multiple shoot induction of Safflower (*Carthamus tinctorius* L.). **National Symposium on “Recent Trends in Plant Biotechnology”** held in the Dept. of Plant Science, Bharathidasan University, Tiruchirappalli on 22-23 March 2004.
65. Sujatha, G., Jayabalan, N., **Ranjitha Kumari, B.D.** and Anitha, S. Efficient protocol for direct plant regeneration from shoot tip explants of Chickpea (*Cicer arietinum* L.). **National Symposium on “Recent Trends in Plant Biotechnology”** held in the Dept. of Plant Science, Bharathidasan University, Tiruchirappalli on 22-23 March 2004.
66. **Ranjitha kumari, B.D.**, Murugesan, k., Sujatha, G and Anitha, S. Changes in nitrogen metabolism imposed by CaCl₂ salt in Coriander (*Coriandrum sativum* L.). **National Symposium on “Recent Trends in Plant Biotechnology”** held in the Dept. of Plant Science, Bharathidasan University, Tiruchirappalli on 22-23 March 2004.

67. **Ranjitha kumari, B.D.**, Murugesan, K., Anitha, S. and Sujatha, G. Effect of NaCl salinity on nitrogen metabolism in Coriander (*Coriandrum sativum* L.). **National Symposium on “Recent Trends in Plant Biotechnology”** held in the Dept. of Plant Science, Bharathidasan University, Tiruchirappalli on 22-23 March 2004.
68. Velayutham, P., **Ranjitha Kumari, B.D.**, Anitha S. and Sujatha G. Qualitative analysis of *in vitro* grown callus of chicory (*Cichorium intybus* L.). **National symposium on “Recent trends in isolation, characterization, synthesis and biological studies of organic compounds”** held at Dept. of Chemistry, Gandhigram Rural Institute, Dindigul on 5-6 Mar, 2004.
69. Saravanamoorthy, M.D. and **Ranjitha Kumari, B.D.** Effect of cotton yarn dye factory effluent on physiological and biochemical contents of two ground nut varieties (*Arachis hypogaea* L.). **National symposium on “Current perspectives in stress biology”** held at Dept. of Botany, Univ. of North Bengal on 6-8 Feb, 2004.
70. Anitha, S., **Ranjitha Kumari, B.D.** and Sujatha, G. Callus induction from leaf and petiole explants of *Rauwolfia tetraphylla* L. **National conference on the “Frontiers of research and development in medicinal plants”** held at Dept. of Botany, St. Xavier’s College, Palayamkottai on 28-30 Jan, 2004.
71. Sujatha, G., Jayabalan N., **Ranjitha Kumari, B.D.** and Anitha S. *In vitro* clonal propagation of chick pea (*Cicer arietinum* L.). **National conference on the “Frontiers of research and development in medicinal plants”** held at Dept. of Botany, St. Xavier’s College, Palayamkottai on 28-30 Jan, 2004.
72. Thulasi, G. Pillai and **Ranjitha Kumari, B.D.** *In vitro* regeneration and effect of GA₃ on shooting and rooting of chicory (*Cichorium intybus* L.). **National seminar on “Biodiversity, conservation and commercial exploitation of medicinal plants”** held at Dept. of Botany, Osmania Univ., Hyderabad on 8-10 Nov, 2003.
73. Thulasi, G. Pillai and **Ranjitha Kumari B.D.** Somatic embryogenesis and plant regeneration in soybean (*Glycine max* (L.) Merr.). **National seminar on “Advances in genetics and plant breeding – impact of DNA revolution”** held at UAS, Dharwad on 30-31 Oct, 2003.
74. **Ranjitha Kumari, B.D.**, Giri Rajkumar, S., George Thomas and Anitha, S. *Agrobacterium* mediated transformation of Rice Var. Basmati-370. **National conference on “Frontiers in Biotechnology”** held at J.J. college of Arts and Science, Pudukkottai on 21-23 July, 2003
75. Sheela, G.N., **Ranjitha Kumari, B.D.** and Saravanamoorthy, M.D. Effect of cotton yarn dye effluent sludge on morphological and biochemical changes in *Phaseolus mungo* L.. **National Conference on “Recent Trends in Plant Science Research”** held at Dept. of Botany, St. Thomas College, Pala on 14-15 Nov, 2002.
76. Saravanamoorthy, M.D. and **Ranjitha Kumari, B.D.** Effect of cotton textile yarn dye effluent on seed germination and seedling of two groundnut varieties (*Arachis hypogaea* L.). **National Conference on “Recent Trends in Plant Science Research”** held at Dept. of Botany, St. Thomas College, Pala on 14-15 Nov, 2002.
77. Velayutham, P. and **Ranjitha Kumari, B.D.** An efficient and rapid procedure for direct regeneration of plantlets from chicory (*Cichorium intybus* L.) shoot tips. **National Conference on “Recent Trends in Plant Science Research”** held at Dept. of Botany, St. Thomas College, Pala on 14-15 Nov, 2002.

78. Murugesan, K. and **Ranjitha Kumari, B.D.** Effect of salinity on growth and yield in *Coriandrum sativum* L. Var. Co-3 and CS-4. **National Conference on "Recent Trends in Plant Science Research"** held at Dept. of Botany, St. Thomas College, Pala on 14-15 Nov, 2002.
79. Anitha, S. and **Ranjitha Kumari, B.D.** Multiple shoot and callus induction in *Rauvolfia tetraphylla* L. **National Conference on "Recent Trends in Plant Science Research"** held at Dept. of Botany, St. Thomas College, Pala on 14-15 Nov, 2002.
80. **Ranjitha Kumari, B.D.** and Settu, A. *Agrobacterium tumefaciens* mediated genetic transformation in soybean. **National symposium on "Changing Horizons in Genetics – Human welfare"**, held at Dept of Genetics, Osmania University, Hyderabad on 30-31 Dec, 2001.
81. **Ranjitha Kumari, B.D.** and Saravanamoorthy, M.D. Effect of Spinning dye industry effluent on germination and development of groundnut (*Arachis hypogaea* L.) and Green Gram (*Vigna radiata* L.). **National seminar on "Role of plant physiology for sustaining quality and quantity of food production in relation to environment"** held at the Department of Crop Physiology, University of Agriculture Sciences , Dharwad, Karnataka on 5th -7th Dec , 2001.
82. **Ranjitha Kumari, B.D.** and Settu, A. NaCl tolerant plant of soybean (*Glycine max* (L.) Merr.) regenerated from salt tolerant cell line. **National seminar on "Management of problem soils for sustainable Agriculture"** held at Anbil Dharmalingam Agricultural College and Research Institute Navalur Kottapattu. Tiruchirappalli on Nov 29-30 2001.
83. **Ranjitha Kumari, B.D.** and Anitha, S. Callus induction of Fenugreek - NaCl stress. **National symposium on "Relevance of Plant Biochemistry and Biotechnology – Modern trends"** held at American College, Madurai on March 1-3, 2001.
84. Poongodi, G.L., **Ranjitha Kumari, B.D.**, Saravanamoorthy, M.D. and Anitha, S. Biochemical analysis of callus and in vitro Flowering, seed setting in Fenugreek (*Trigonella foenum-graecum* L.). **National Symposium on "Medicinal Plants"** held in the Dept. of Botany , St. Joseph college Tiruchirappalli on 5-6 Feb, 2001
85. Poongodi, G.L. and **Ranjitha Kumari, B. D.** *In vitro* plant regeneration and alkaloid estimation from the shoot explant of Fenugreek (*Trigonella foenum – graecum* L.). **National symposium on "Recent trends in plant science research"** held in the Dept. of Botany, University of Kerala, Kariavattom, Thiruvananthapuram, Kerala on 17 - 19, Apr. 2000.
86. Settu, A., Venkatachalam, P. and **Ranjitha Kumari, B. D.** Expression and Inheritance of foreign genes in transgenic soybean plants generated by *Agrobacterium* mediated transformation. **National symposium on "Recent trends in crop improvement for sustainable development"** held in the Dept. of Plant science, Bharathidasan University, Tiruchirappalli - 620 024, Tamil Nadu on 27 - 29 Jan, 2000.
87. Murugesan, K. and **Ranjitha Kumari, B.D.** Salt tolerance of *Coriandrum sativum* Linn. varieties Co-3 and CS-4. **National symposium on "Recent trends in crop improvement for sustainable development"** held in the Dept. of Plant science, Bharathidasan University, Tiruchirappalli - 620 024, Tamil Nadu on 27 - 29 Jan, 2000
88. Velayutham, P., Gopalakrishnan, V. and **Ranjitha Kumari, B.D.** A new midge gall on *Salvadora persica* Linn. **National symposium on "Recent trends in crop improvement for**

- sustainable development"** held in the Dept. of Plant science, Bharathidasn University, Tiruchirappalli - 620 024, Tamil Nadu on 27 - 29 Jan, 2000.
89. Velayutham, P., Gopalakrishnan, V. and **Ranjitha Kumari, B.D.** Mite induced flower gall on *Salvadora persica* Linn. **National symposium on "Recent trends in crop improvement for sustainable development"** held in the Dept. of Plant science, Bharathidasn University, Tiruchirappalli - 620 024, Tamil Nadu on 27 - 29, Jan. 2000.
90. Poongodi, G.L. Settu, A. and **Ranjitha Kumari, B. D.** *In vitro* plant regeneration from leaf explant of Fenugreek (*Trigonella foerum-graceum* L.). **National symposium on "Recent trends in crop improvement for sustainable development"** held in the Dept. of Plant science, Bharathidasan University, Tiruchirappalli - 620 024, Tamil Nadu on 27 - 29, Jan. 2000.
91. Saraswathy, N. and **Ranjitha Kumari, B.D.** Effect of plant hormones on amino acid, proline content under salt stress of mung bean (*Vigna radiata* (L.)WILCZEK). Var. Vamban 1 and K.M. 2. **National symposium on "Recent trends in crop improvement for sustainable development"** held in the Dept. of Plant science, Bharathidasan University, Tiruchirappalli - 620 024, Tamil Nadu on 27 - 29, Jan. 2000.
92. Kamaraj, M., George, V.K. and **Ranjitha Kumari, B.D.** Effect of zinc on germination growth, chlorophyll, carotenoid and sugar content in *Phaseolus radialus* Linn. **National symposium on "Recent trends in crop improvement for sustainable development"** held in the Dept. of Plant science, Bharathidasan University, Tiruchirappalli - 620 024, Tamil Nadu on 27 - 29, Jan. 2000.
93. Kamaraj, M. and **Ranjitha Kumari, B.D.** Effect of water stress on nitrogen metabolism in Betel vine (*Piper betle* L.). **National Symposium on "Future Goals of Physiological Research for Improvement of Plant Resources"** held in the Dept. of Botany, Annamalai University, Annamalai Nagar on 18 to 20, Dec. 1998.
94. Saraswathi, N. and **Ranjitha Kumari, B.D.** Morphological and biochemical response of fenugreek (*Trigonella foenum-graecum* L.) to some growth regulators. **National Symposium on "Future Goals of Physiological Research for Improvement of Plant Resources"** held in the Dept. of Botany, Annamalai University, Annamalai Nagar on 18 to 20, Dec. 1998.
95. Settu, A. and **Ranjitha Kumari, B.D.** Influence of growth regulators on plant regeneration from hypocotyl explants of soybean (*Glycine max* (L.) Merr.). **National Symposium on "Future Goals of Physiological Research for Improvement of Plant Resources"** held in the Dept. of Botany, Annamalai University, Annamalai Nagar on 18 to 20 Dec, 1998.
96. **Ranjitha Kumari, B.D.**, Gnaana Saraswathi, S. and Saraswathi, N. Biotechnological approaches in crop improvement and food production. **National Workshop in "Perspectives on Food Security issues in Tamilnadu and Kerela"** held at Dept. of Economics, Gandhigram Rural Institute, Gandhigram on 8 to 9, Oct 1998.
97. Kamaraj, M. and **Ranjitha Kumari, B.D.** Changes in total aminoacids, nitrate (NR) and nitrite reductase (NiR) activities in Betel vine (*Piper betel* L.) under water deficit stress. **National Conference on "Recent Trends in Biotechnology and Microbial Research"** held in the Dept. of Biotechnology and Microbiology, J.J. College of Arts and Science, Pudukkottai on 20 to 21 May, 1998.
98. Settu, A. and **Ranjitha Kumari, B.D.** *In vitro* selection of NaCl and KCl toletrant plantlets of soybean (*Glycine max* (L.) Merr.). **National Conference on "Recent Trends in**

Biotechnology and Microbial Research” held in the Dept of Biotechnology and Microbiology, J.J. College of Arts and Science, Pudukkottai on 20-21May 1998.

99. Rajmohan Rao, K. and **Ranjitha Kumari, B.D.** Trends in Export of cardamom from India, 1991 to 1997. **National Conference on “Recent Trends in Spices and Medicinal Plant Research”** organized by Academy of Plant Sciences, India in collaboration with Spices Board, held at Bose research Institute, Calcutta on 2 to 4, Apr 1998.
100. Kamaraj, M. and **Ranjitha Kumari, B.D.** Water stress induced changes in glutamine, ammonia, nitrate and nitrite reductase activities in Betel vine (*Piper betle* L.). **National Conference on “Recent Trends in Spices and Medicinal Plant Research”** organized by Academy of Plant Sciences, India in collaboration with Spices Board, held at Bose Research Institute, Calcutta on 2 to 4, Apr 1998.
101. Settu, A. and **Ranjitha Kumari, B.D.** *In vitro* selection of NaCl and KCl tolerant cell lines of soybean (*Glycine max. (L).*Merr.). **National Symposium on “Current Trends in Plant Physiology and Biochemistry”** held in the Dept. of Plant Science, School of Life Sciences, University of Hyderabad, Hyderabad on 29 to 31, Jan 1998.
102. Murugesan, K. and **Ranjitha Kumari, B.D.** Influence of salinity levels at two growing stages on the performance of two coriander (*Coriandrum sativum L.*) varieties. **National Symposium on “Current Trends in Plant Physiology and Biochemistry”** held in the Dept. of Plant Science, School of Life Sciences, University of Hyderabad, Hyderabad on 29 to 31, Jan 1998.
103. Saraswathi, N. and **Ranjitha Kumari, B.D.** Influence of Calcium Chloride on changes in protein and chlorophyll content in seedlings of *Phaseolus radiatus* L. var.vamban-1(Green gram). **National Symposium on “Current Trends in Plant Physiology and Plant Biochemistry”** held in the Dept. of Plant Science, School of Life Sciences, University of Hyderabad, Hyderabad on 29 to 31, Jan 1998.
104. Kamaraj, M. and **Ranjitha Kumari, B.D.** Physiological response of Betel vine (*Piper betle*) to water stress. **National Symposium on “Current Trends in Plant Physiology and Plant Biochemistry”** held in the Department of Plant Science, University of Hyderabad, Hyderabad on 29 to 31, Jan 1998.
105. Kamaraj, M. and **Ranjitha Kumari, B.D.** Influence of stomatal occurrence in Betel vine (*Piper betle*) under moisture stress. **National symposium on “Natural Resources Management System”** held in the Dept. of Botany, St. Joseph’s College, Tiruchirappalli on 26 to 28, Feb 1997.
106. **Ranjitha Kumari, B.D.** Water stress induced changes in Nitrate and Nitrite reductase activities in Mulberry. **National Conference on “Moriculture”** held in the Dept. of Biotechnology, School of Life Sciences, Bharathidasan University, Trichirappalli – 620 024 on 22 to 23, Feb 1997.
107. Settu, A. and **Ranjitha Kumari, B.D.** *In vitro* selection for salt tolerant cell lines from soybean (*Glycine max.(L.). Merr.*). **National Symposium on “Emerging Trends in Plant Tissue Culture and Molecular Biology”** held at the Department of Genetics, Osmania University, Hyderabad on 29 to 31, Jan 1997
108. Settu, A. and **Ranjitha Kumari, B.D.** *In vitro* selection for salt tolerance in *Trigonella foenum-graecum* using callus and shoot tip culture. **National Seminar on “Biotechnology of Spices and Aromatic Plants (BIOSAAP)”** held at National Research Centre of Spices, Calicut, Kerela on 24 to 25 Apr, 1996.

109. **Ranjitha Kumari, B. D.** Changes in nucleic acid in mulberry under water stress. “**New Vistas in Crop Improvement**” held at Punjab Agricultural University, Ludhiana on 20 to 22 Feb, 1996.
110. Kamaraj.M., **Ranjitha Kumari.B.D.** and George.V.K., Effect of Plant growth hormones on physiological changes in *Helianthus annuus. L. var. SUF- 5*. **National Seminar on “Crop Physiology**” held at Tamilnadu Agricultural University, Coimbatore on 29 to 31 Jan 1996.
111. **Ranjitha Kumari, B.D.** Water stress induced changes in protein, aminoacid and protease activity in mulberry (*Morus alba L.*). **National Seminar on “Crop Physiology**” held at Tamilnadu Agricultural University, Coimbatore on 29 to 31 Jan 1996.
112. **Rajitha Kumari, B.D.** and Madhusoodanan, K.J. Evaluation of high yielding cardamom genotypes to moisture stress. **National symposium on “New directions in Plant Biodiversity Research**” held in the Department of Plant Science, Bharathidasan University, Tiruchirappalli on 27 to 29 Sep, 1995.
113. **Ranjitha Kumari, B.D.**, Kuriachen, P.M., Madhusoodanan, K.J. and Naidu. **Standardization of light required in cardamom seedlings nursery PLACROSYM** held at C.P.C.R.I Kasaragod, Kerela on Dec, 1992.
114. Santhakumari, M. and **Ranjitha Kumari, B.D.** Induction of rooting in mulberry by amide group herbicide Alachlor. **Seminar on “Problems of Sericulture**” held at Bangalore University, Bangalore on 27 to 30 March, 1986.

Overseas Exposure / Visits

1. Vienna, Austria

On invitation by the ECSITE (European Network Science Centres & Museums) presented a paper “*Role of Universities in combating Social Exclusion for Community Empowerment and Social Inclusion: An Indian Experience*” in the 2nd HEIRRI conference on “Education towards a responsible society, transforming Universities through RRI” on 27-04-2018 at **Vienna, Austria**.

2. Singapore:

Visited Dept. of Biology, National University of Singapore and Participated presented a research work in the International Conference –Biology in Asia- at the National University of Singapore, **Singapore** during December 2004

Membership in

Professional Bodies

1. Life Member in the Indian Association for Plant Physiologist (Since 1993)
2. Life Member and Editorial Board in the Society for Plant Biotechnology and Molecular Biology
3. Life Member in Journal of Swami Botanical Club

Editorial Board

1. Editorial member in Asian Journal of Applied Research – Arunai Publications.
2. Journal of Plant Cell Biotechnology and Molecular Biology
3. Journal of Plant Cell Tissue and Organ Culture (Springer Publications)
4. Asian Journal of Environmental Science.
5. The Indian Society for Plant Physiology
6. Swami Botanical Club
7. Current Science Association

Advisory Board

- Participated One day (22/11/2012) workshop on reform of Undergraduate and Postgraduate Curriculum Cell conducted by CCCD at Bharathidasan University, Trichy.
- Subject Expert for framing PG degree standard syllabus for Tamil Nadu Public Service Commission, Chennai, Tamil Nadu.

Academic Bodies (such as Board of Studies etc.,)

- Chairman - Board of Studies: Department of Plant Science
Bharathidasan University, Trichy.
- Chairman - Board of Studies – Environmental Studies
4 (UG and PG) Bharathidasan University, Trichy. 2012 – 2016
- Chairman - Board of Studies- Department of Botany,
Government Arts College for Women
- The Member of the Senate/Standing Committee on
Academic Affairs 2013 – 2016
- Academic Council Member
 - i. Government Arts College for Women, Kumbakonam.
 - ii. National College, Trichy.
 - iii. Government Arts College, Karur.
- 1. Botany (UG and PG) of K.N. Govt. Arts College for women, Thanjavur

2. Dept. of Botany, SR College, Trichy
3. University Board of Studies - UG and PG Biotechnology
4. St. Joseph's College, Trichy
5. Kundavainachiyar College, Thanjavur
6. Member as University Representative to Academic Council of Govt. Arts. College for Women, Kumbakonam.
7. Department of Plant Science, Bharathidasan University, Trichy.
8. Department of Botany, Government Arts College for Women, Pudukkottai.
9. Member of Board of Studies of Botany, National College, Trichy
10. Member as University Representative, Department of Botany, National College, Trichy.

Books Published

Title: Laboratory Manual on Plant Physiology and Biochemistry.

Publisher : Raj Arun, Tarnaka, Hyderabad.

Year : Feb 1998.

Level : Research.

Title: Plant Proteomics

Publisher : A.P.H. Publishers, Ansari Road, New Delhi.

Year : 2008

Level : PG and Research

Title: Phytosynthesis of Nanoparticles and Hairy Root Cultures.

Publisher: A.P.H. Publishers, Ansari Road, New Delhi

Year: 2018

Level: Research

Resource persons in various capacities

- ❖ Delivered an Invited Talk on “**Biotechnology – Biodiversity Conservation**” in the National Conference on “*Plant Diversity: Challenges in Conservation and Sustainable Utilization*” held at Kakatiya University, Warangal, Telangana, on 4th to 6th Feb, 2016.
- ❖ Delivered Valedictory Address of 8th College Students Council at Wavoo Wajeetha Womens college of Arts and Science, Kayalapatnam on 08/04/2014 .
- ❖ Delivered an invited talk on the topic “**Bioremediation of Pollutant**” in the UGC sponsored Refresher Course in Environmental Education on 13.11.2006
- ❖ Delivered an **Invited talk** on “Development of Abiotic stress tolerant transgenic plants” in the **state level seminar on “Recent scopes in biosciences, Biopearl ‘05”** held at the Dept. of Biochemistry, Dhanalakshmi Srinivasan College, Perambalur, Tamil Nadu on 18th Feb, 2005.
- ❖ Delivered an invited talk in the National Seminar on “*Recent scopes in Biosciences*” on the topic “**Development of Abiotic stress tolerant transgenic plants**” 18.2.2005

- ❖ Delivered an invited talk in the International Conference on “*Challenges and Applications in Biotechnology*” on the topic “**Abiotic stress tolerant transgenics**” 05.03.2004
- ❖ Delivered an invited talk on the topic “**Isolation of Salt tolerant cell lines**” in the UGC sponsored Refresher Course in Botany (Plant Tissue and Molecular Biology) on 21.03.1998
- ❖ Delivered an invited talk on the topic “**Environmental Stress on Living Organisms**” in the UGC sponsored Refresher Course in Animal Sciences (Environmental complexities and their impact on animal health and diversity)
- ❖ Delivered an invited talk on the topic “**Plants Under Stress**” in the UGC sponsored Refresher Course in Botany on 14.02.1997
- ❖ Delivered an invited talk on the topic “**Host – Parasitic Interaction**” in the UGC sponsored Refresher Course in Botany (Ecology and Plant Pathology) on the topic 17.02.1998

Others

1. No. of PhD Theses evaluated : 28
2. No. of Ph.D., Public Viva Voce Examinations conducted :30
3. Sequences submitted in Gen-Bank: 06

Recent Publications

International:

1. Anil Kumar Moola and **B.D. Ranjitha Kumari** Direct regeneration of plantlets from shoot tip explants of a vulnerable medicinal plant – *Celastrus paniculatus* Willd., Journal of Applied Horticulture. (2019), 21(3). (Manuscript in Press).
2. C Janani, B. Sunadararajan and **B D Ranjitha Kumari**, Construction and transformation of peroxisome proliferator-activated receptor gamma (RnPPAR γ) gene using *Agrobacterium tumefaciens* into *Glycine max* L. Merr. (2019), Gene reports, <https://doi.org/10.1016/j.genrep.2019.100427>.
3. Raghavendrarao Sanagala, **Ranjitha Kumari BD**. Expression Analysis of miRNA 164c During Rice Regeneration in Different indica Rice Genotypes, Journal of Pure and Applied Microbiology, ISSN: 0973-7510, (2018), 12(4), 2159-2164.
4. Sundararajan Balasubramani, Gopal Sabapathi, Anil Kumar Moola, Rajadurai Vijay Solomon, Ponnambalam Venuvanalingam and Ranjitha Kumari Bollipo Diana. Evaluation of the Leaf Essential Oil from *Artemisia vulgaris* and Its Larvicidal and Repellent Activity against Dengue Fever Vector *Aedes aegypti*—An Experimental and Molecular Docking Investigation (2018) *ACS Omega*, 3, 15657–15665.
5. Sundararajan, B.; Anil Kumar Moola.; K. Vivek and **Ranjitha Kumari, B. D.** (2018) Formulation of nanoemulsion from leaves essential oil of *Ocimum basilicum* L. and its antibacterial, antioxidant and larvicidal activities (*Culex quinquefasciatus*). *Microbial Pathogenesis* (125) 475-485. (Impact Factor 2.332).
6. C Janani and **B D Ranjitha Kumari**, Antidiabetic activity of Methanolic Leaves Extracts of Transformed Soybean in 3T3 L1 Pre-Adipocytes Cell Line, *International Journal of*

- Pharmaceutical Sciences and Research.*, ISSN: 2320-5148, (2017), 8, 11, DOI: 10.13040/IJPSR.0975-8232.8(11).4732-44. (Impact Factor: 0.59)
7. Raghavendra Rao Sangala, Anil Kumar Moola, B D Ranjitha Kumari. A Review on Advanced methods in Plant Gene Targeting, *Journal of Genetic Engineering and Biotechnology.*, ISSN: 1687-157X, (2017), 15, 317-321, DOI: <https://doi.org/10.1016/j.jgeb.2017.07.004>.
 8. M Prathap and **B D Ranjitha Kumari**, Bioformulation in biological control for plant disease – A review, *International Journal of Biotech Trends and Technology.*, ISSN: 2249-0183, (2017), 22, 1-8, DOI: [10.14445/22490183/IJBTT-V22P601](https://doi.org/10.14445/22490183/IJBTT-V22P601). (Impact Factor – 2.09)
 9. B Sundararajan, R Thamaraiselvi, Anil Kumar Moola and **B D Ranjitha Kumari**, Development of nanoemulsion from *Vitex negundo* L. essential oil and their efficacy of antioxidant, antimicrobial and larvicidal activities (*Aedes aegypti* L, *Environmental Science and Pollution Research.*, (2017), 24, 15125- 15133, (Impact Factor – 2.8)
 10. B Sundararajan and **B D Ranjitha Kumari**, Novel synthesis of gold nanoparticles using *Artemisia vulgaris* L. leaf extract and their efficacy of larvicidal activity against dengue fever vector *Aedes aegypti* L, *Journal of Trace Elements in Medicine and Biology.*, ISSN: 0946-672X, (2017), doi: 10.1016/j.jtomb.2017.03.008. (Impact factor: 3.755)
 11. G Mahendran and B D Ranjitha Kumari, Biological activities of silver nanoparticles from *Nothapodytes nimmoniana* (Graham) mabb. Fruit extracts, *Food Science and Human Wellness.* ISSN: 2213-4530, (2016), 5(4), 207, <https://doi.org/10.1016/j.fshw.2016.10.001>
 12. B Sundararajan, G Mahendran, R Thamaraiselvi and B D Ranjitha Kumari, Biological activities of synthesized silver nanoparticles from *Cardiospermum halicacabum* L., *Bulletin of Material Science.*, ISSN:0250-4707, (2016), 39(2), 423. (Impact factor: 0.925)
 13. B Sundararajan, **B D Ranjitha Kumari**, Effect of Farnesyl Diphosphate on Beta caryophyllene content in the calli of *Artemisia vulgaris* L., *International Journal of New Technologies in Science and Engineering.*, ISSN 2349-0780, (2015), 2(4), 307.
 14. C Janani, **B D Ranjitha Kumari**, PPAR Gamma Gene - A Review, , *Diabetes & Metabolic Syndrome: Clinical Research & Reviews.*, ISSN: 1871-4021, (2015), 9, 46, doi: 10.1016/j.dsx.2014.09.015.
 15. M Prathap, **B D Ranjitha Kumari** A Critical Review on Plant Growth Promoting Rhizobacteria, , *Journal of Plant Pathology and Microbiology.*, ISSN: **2157-7471**, (2014), 6(4),1, doi:10.4172/2157-7471.1000266. (Impact factor: 1.62)
 16. M Prathap, S E Noorjahan, T P Sastry, **B D Ranjitha Kumari** *In vitro* Release of Antibiotics from a Wound Dressing Material- Fibro Gel, *Asian Journal of Biochemical and Pharmaceutical Research.*, (2014), 4, 76 (Impact factor: 0.96)
 17. Anti-bacterial activities of silver nanoparticles synthesized from plant leaf extract of *Abutilon indicum* (L.) Sweet, M Prathap, A Alagesan, **B D Ranjitha Kumari**, *Journal of Nanostructure in Chemistry.*, ISSN: 2193 – 8865, (2014), 4, 106 (DOI: 10.1007/s40097-014-0106-1.
 18. Thidiazuron-induced shoot organogenesis of *Cleome viscosa* (L.) through cotyledonary explants culture, J Vijayakumar, G S Rathi, S M Bhuvaneshwari, **B D Ranjitha Kumari**, E Castano, *African Journal of Biotechnology.*, ISSN: 1684-5315, (2014), 13 (9), 1027, DOI: 10.5897/AJB2013.12456. (Impact factor: 0.90)

19. B. Sundararajan, **B D Ranjitha Kumari**, Biosynthesis of silver nanoparticles in *Lagerstroemia speciosa* (L.) Pers and their antimicrobial activities, , *International Journal of Pharmacy and Pharmaceutical Sciences.*, ISSN- 0975-1491, (2014), 6 (3), 30. (Impact factor: 0.512)
20. P Ananthi, **B D Ranjitha Kumari**, GC – MS Determination of Bioactive Components of *Rorippa indica* L., *International Journal of Chem Tech Research.*, ISSN: 2455 – 9563, (2013), 5(4), 2027.
21. S Pradeep Kumar, **B D Ranjitha Kumari**, Antioxidant and *In situ* Chitinase gel activity in Safflower (*Carthamus tinctorius* L.), *World Applied Sciences Journal.*, ISSN : 1818-4952, (2013), 24 (1), 46, DOI: 10.5829/idosi.wasj.2013.24.01.3037
22. S Rajaperumal, M Nimmi, **B D Ranjitha Kumari**, *In vitro* Studies on Antimicrobial and Antioxidant Effect of Methanolic Extract of *Indigofera aspalathoides* (Vahl ex Dc) and its Cytotoxic Property against Human Lung Cancer Cell Line NCI H460, *European Journal of Experimental Biology.*, ISSN No: 2248-9215, (2013), 3(3), 18. (Impact factor: 1.09)
23. G Sujatha, **B D Ranjitha Kumari**, Composition and larvicidal activity of *Artemisia vulgaris* L. stem essential oil against *Aedes aegypti*, , *Jordan Journal of Biological Sciences.*, ISSN 23077166, (2013), 6(1), 11.
24. C Janani, S Girija, **B D Ranjitha Kumari**, *In vitro* culture and *Agrobacterium* Mediated Transformation in High Altitude Tomato (*Lycopersicon esculentum* Mill.) Cultivar Shalimar, *International Journal of Pharmacy Teaching and Practices.*, ISSN: 1986-8111, (2013), 4(1), 483.
25. S Anitha, **B D Ranjitha Kumari**, Gas Chromatography-Mass Spectrometry Analysis of Methanolic Seed and Root Extracts of *Rorippa indica* L., , *International Journal of ChemTech Research.*, ISSN: 2455 -9563, (2013), 5(1), 299.(Impact factor: 0.59 per doc)
26. S Anitha, **B D Ranjitha Kumari**, *In vitro* callus culture in *Rauvolfia tetraphylla* L.: Indole Alkaloid production, *Asian Journal of Plant Science.* ISSN: 1812 – 5697 (2013), 12(1), 28,) DOI: [10.3923/ajps.2013.28.33](https://doi.org/10.3923/ajps.2013.28.33). (Impact factor: 0.41)
27. G Sujatha, **B D Ranjitha Kumari**, High-efficiency *Agrobacterium rhizogenes* mediated genetic transformation in *Artemisia vulgaris*: Hairy root production and essential oil analysis, *Industrial Crops and Products.*, ISSN: 0926-6690, (2013), 44, 643, doi: <https://doi.org/10.1016/j.indcrop.2012.09.007>. (Impact factor: 3.849)
28. R Radhakrishnan, **B D Ranjitha Kumari**, Protective role of pulse magnetic field against salt stress effects in soybean organ culture, , *Plant Biosystem.*, ISSN 1126-3504 , (2013), 147 (1), 135, doi: <https://doi.org/10.1080/11263504.2012.717543>. (Impact factor: 1.390)
29. G Sujatha, **B D Ranjitha Kumari**, Establishment of fast-growing *in vitro* root culture system in *Artemisia vulgaris*, *International Journal of Agricultural Technology.*, ISSN:2630 – 0192, (2012), 8(5), 1779.
30. Radhakrishnan, T Leelapriya, **B D Ranjitha Kumari**, Effects of pulsed magnetic field treatment of soybean seeds on calli growth, cell damage and biochemical changes under salt stress, R *Bioelectromagnetics.*, ISSN:1521-186X, (2012), 33(8), 670, doi: 10.1002/bem.21735. (Impact factor: 2.0)

31. R Radhakrishnan, **B D Ranjitha Kumari**, Pulsed magnetic field: A complementary approach offers to enhance plant growth and yield of soybean, *Plant Physiology and Biochemistry*, ISSN: 0981-9428, (2012), 51, 139, doi: 10.1016/j.plaphy.2011.10.017. (Impact factor: 2.718)
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33. P Ananthi, **B D Ranjitha Kumari**, A Ramachandran, *In vitro* propagation of *Rorippa indica* L. from nodal and shoot tip explants, *International Journal for Biotechnology and Molecular Biology Research*, ISSN: 2141-2154, (2011), 2(3), 51.
34. G. Don., S Pradeep Kumar, T Sudha, **B D Ranjitha Kumari**, Effect of chelators and mercury on growth and development of *Catharanthus roseus* (L.) *International Journal of Agricultural Science and Technology*, ISSN: 2327-7645, (2011), 7(2), 281.
35. **B D Ranjitha Kumari**, S Pradeep Kumar, Ribosome Inactivating Proteins: An overview, *Journal of Pharmacy Research*, ISSN: 0974-6943, (2011), 4(3), 769.
36. S Pradeep Kumar, **B D Ranjitha Kumari**, Effect of primary and secondary somatic embryogenesis at morphological and Biochemical levels in safflower, *American-Eurasian Journal of Agricultural & Environmental Sciences*. ISSN: 1818-6769, (2010), 8(6), 784, DOI : 10.5829/aejaes.
37. S Pradeep Kumar, R Manimekalai, **B D Ranjitha Kumari**, Microsatellite marker based characterization of south pacific coconut (*Cocos nucifera* L.) accession, *International J. of Plant Breeding & Genetics*, ISSN: 2152 - 3347, (2010), 5(1), 34, DOI: [10.3923/ijpbg.2011.34.43](https://doi.org/10.3923/ijpbg.2011.34.43). (Impact factor: 0.36)
38. S Pradeep Kumar, **B D Ranjitha Kumari**, Effect of amino acid and Growth Regulators on Indirect organogenesis in *Artemisia vulgaris* L., *Asian Journal of Biotechnology*, ISSN : 1996 – 0700, (2010), 2(1), 37, DOI: 10.3923/ajbkr.2010.37.45 (Impact factor: 0.60)
39. S Pradeep Kumar, **B D Ranjitha Kumari**, *In vitro* and *In vivo* identification of variation in protein expression in *Artemisia vulgaris* L., *Advance in Biological Research*, ISSN : 1992-0067, (2009), 3(5-6), 237.
40. R Radhakrishnan, **B D Ranjitha Kumari**, Variations in morphology, photosynthetic pigments and protein contents in micropropagated soybean compared to conventional soybean, *J. Sci. Trans. Environ. Technovation*, (2009), 3(21), 79.
41. S Anitha, **B D Ranjithakumari**, M Kamaraj, Changes in the Antioxidant enzymes and lipid peroxidation in Betel vine (*Piper betel* L.) subjected to water stress, *The Asian and Australasian Journal of Plant Science and Biotechnology*, ISSN: 1752-3818, (2009), 43.
42. R Radhakrishnan, **B D Ranjitha Kumari**, Rooting and shooting: dual function of thidiazuron in *in vitro* regeneration of soybean (*Glycine max.* L.), *Acta Physiologiae Plantarum*, ISSN: 1861-1664, (2009), 31(6), 1213, DOI: 10.1007/s11738-009-0356-6. (Impact factor: 1.438)
43. R Radhakrishnan, **B D Ranjitha Kumari**, Changes in protein content in micropropagated and conventional soybean plants (*Glycine max* L. Merr.), *World Journal Agricultural Science*, ISSN 1817-3047, (2009), 5(2), 186.

44. R Radhakrishnan, **B D Ranjitha Kumari**, Morphological and agronomic evaluation of tissue culture derived Indian soybean plants, *Acta Agriculturae Slovenica.*, (2008), 91(2), 391. DOI: 10.2478/v10014-008-0019-0. (Impact factor: 0.44)
45. R Radhakrishnan, **B D Ranjitha Kumari**, N-triacontanol alleviates the toxic effects of soil salinity in Soybean, *Journal of Biosciences.*, ISSN: 0250-599, (2008), 19(2), 53, doi:10.1.1.522.5721. (Impact factor: 1.528)
46. G Raja, **B D Ranjitha Kumari**, Effect of Biofertilizers on *Jatropha curcas* L. under tropical conditions, *Asian Journal Of Environmental Science.* ISSN: 0973 – 4759, (2008), 3, 66.
47. G Sujatha, **B D Ranjitha Kumari**, Mass propagation and essential oil analysis of *Artemisia vulgaris* L., *Journal of Bioscience and Bioengineering.*, ISSN: 1389-1723, (2008), 105 (3), 176, doi: 10.1263/jbb.105.176. (Impact factor: 2.015)
48. J Vijaya Kumar, **B D Ranjitha Kumari**, Cyclic somatic embryogenesis of safflower (*Carthamus tinctorius* L.) cv. NARI-6, *Biologia Plantarum.*, ISSN: 0006-3134, (2008), 52 (3), 429, doi:10.1007/s10535-008-0087-3. (Impact factor: 1.424)
49. Arun Mozhi Varman, **B D Ranjitha Kumari**, Analysis of heat shock proteins (HSPs) expression during cadmium stress on *Catharanthus roseus* (L.) Don., P Ramachandran, *Perspectives in Cytology and Genetics.*, (2007), 13, 332.
50. G Sujatha, **B D Ranjitha Kumari**, Micropropagation, encapsulation and growth of *Artemisia vulgaris* node explants for germplasm preservation, *South African Journal of Botany*, ISSN: 0254-6299, (2007), 74, 93, <https://doi.org/10.1016/j.sajb.2007.09.002>. (Impact factor: 1.442)
51. J Vijaya Kumar, **B D Ranjitha Kumari**, Production of plants resistant to *Alternaria carthami* via organogenesis and somatic embryogenesis of safflower cv NARI-6 treated with fungal culture filtrates, *Plant Cell Tissue and Organ Culture.*, ISSN: 0167-6857, (2008), 93, 85, DOI: 10.1007/s11240-008-9346-4. (Impact factor: 2.004)
52. R Radhakrishnan **B D Ranjitha Kumari**, Callus induction and plant regeneration of Indian soybean via half seed explant culture, *Journal Agricultural Technology.*, ISSN:1686-9141, (2007), 3(2), 287.
53. G Sujatha, **B D Ranjitha Kumari**, Efficient in vitro micro propagation and regeneration of *Artemisia vulgaris* L, *Crop Breeding and Applied Biotechnology.*, ISSN 1518-7853, (2007), 7, 117, DOI:10.12702/1984-7033.v07n02a02. (Impact factor: 0.806)
54. S Nandagopal, **B D Ranjitha Kumari**, Effectiveness of auxin induce in vitro root culture in Chicory, *Central European Agriculture.* ISSN: 1332 – 9049, (2007), 8(1), 73.
55. S Anitha, **B D Ranjitha Kumari**, Influence of auxins combinations on accumulation of reserpine in the callus of *Rauvolfia tetraphylla* L, *Pakistan J. Biological Sciences.*, ISSN: 1812 – 5735, (2007), 10, 3900. (Impact factor: 0.24)
56. G Sujatha, **B D Ranjitha Kumari**, High-frequency shoot multiplication in *Artemisia vulgaris* using thidiazuron, *Plant Biotechnology Reports.*, ISSN: 1863-5466, (2007), 3, 159, DOI 10.1007/s11816-007-0028-1. (Impact factor: 1.301)
57. **B D Ranjitha Kumari**, P Velayutham, S Anitha, Antimicrobial activity of esculin and esculetin from *Cichorium intybus* L, *Advances in Biological Research.*, ISSN:1992 – 0067, (2007), 1(1), 25.

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60. P Velayutham, **B D Ranjitha Kumari**, P Baskaran, An efficient in vitro plant regeneration system for *Cichorium intybus* L. - an important medicinal plant, *Journal of Agricultural Technology.*, ISSN: 2630 – 0192, (2007), 2(2), 287.
61. G Sujatha, **B D Ranjitha Kumari**, Rapid in vitro micropropagation of *Cicer arietinum* L, N Jayabalan, *Horticultural Science.*, ISSN 0862-867X (2007), 34(1), 1. (Impact factor: 0.5)
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63. R Radhakrishnan, K Dharmaraj, **B D Ranjitha Kumari**, A comparative study on the physico chemical and bacterial analysis of drinking bore well and sewage water in the three different places of Sivakasi, *Journal of Environmental Biotechnology.*, ISSN: 0254-8704, (2007), 28(1/2), 105. (Impact factor:0.56)
64. S Nandagopal, **B D Ranjitha Kumari**, Influence of Exogenous hormones on development of root culture in *Cichorium intybus* L. cv., *Focus- Journal of Central European Agriculture.*, ISSN:1332-9049 (2006), 27, 231.
65. M Ganesan, M Chandrasekar, **B D Ranjitha Kumari**, N Jayabalan, Somatic embryogenesis and plant regeneration of okra (*Abelmoschus esculentus* (L.) Moench) through suspension culture, *Biologia Plantarum.*, ISSN: 1573-8264, (2006), 27, 315. (Impact factor: 1.424)
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69. S Anitha, **B D Ranjitha Kumari**, In vitro flowering in *Rauvolfia tetraphylla* L, *Pakistan Journal of Biological Science.*, ISSN: 1812-5735, (2006), 9(3), 422, <http://dx.doi.org/10.3923/pjbs.2006.422.424>.
70. J Vijaya Kumar, **B D Ranjitha Kumari**, Effect of phytohormones on multiple shoot induction in cv. NARI -6 of safflower (*Carthamus tinctorius* L.), *Journal of Plant Biotechnology.*, ISSN 1229-2818, (2005), 7(3), 149.
71. K Murugesan, **B D Ranjitha Kumari**, S Anitha, Effect of salinity in carbohydrate metabolism of Coriander (*Coriandrum sativum* L.) *Geobios.*, ISSN: 0016-6995, (05), 32 (2-3), 157. (Impact factor: 1.205)

72. **B D Ranjitha kumari**, A Settu, G Sujatha, *Agrobacterium* mediated genetic transformation in soybean (*Glycine max* (L.) Merr), *Journal of Plant Cell Biotechnology and Molecular Biology.*, ISSN: 0972-2025, (2005), 5(3&4), 16.
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86. **B D Ranjitha Kumari**, K Veeranjanyulu, Modulation in levels of inorganic ions, dry matter and nitrogen fractions in mulberry under different moisture regimes, , *Annali Di Bot.*, (1996), LIV, 189. (Impact factor: Not available) (JCR Impact factor: 0.882)
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