

CURRICULUM VITAE



1. **Name** : Dr. R. JEYACHANDRAN
2. **Date of Birth** : 07-05-1960
3. **Present Position** : Associate Professor and Head
4. **Department** : Botany
5. **Field(s) of Specialization:** Plant Biotechnology
Biochemistry
Bioinformatics

6. **Educational Background:**

Degree	Subject of study/ Research Specialisation	University	Year Conferred	Percentage/ Grade
B.Sc.	Botany	Madras	1981	'O' Grade 82%
M.Sc.	Botany	Madras	1983	'O' Grade 75%
Ph.D.	Physiology & Biochemistry	Bharathidasan	1988	Commendable
PGDBI	Bioinformatics	Bharathiar	2003	I Class

7. **Employment record:**

Employer	Period	Designation / Nature of assignment
St.Joseph's College, Tiruchirappalli-620002	1987-1992	Lecturer
St.Joseph's College, Tiruchirappalli-620002	1992-1998	Senior Lecturer
St.Joseph's College, Tiruchirappalli-620002	1998 - 2005	Reader
St.Joseph's College, Tiruchirappalli-620002	2006- Till date	Associate Professor
	2010-2011	Coordinator, M.Phil. Biotechnology
	June 2011 onwards	Head, Dept.of Botany

8. Teaching Experience:

Under graduate level: B.Sc. Plant Biology and Biotechnology	: 24 years
Post graduate level: M.Sc. Plant Biology and Biotechnology	: 24 years
M.Sc. Biochemistry	: 19 years
M.Sc. Biotechnology	: 10 years
M.Phil: Plant Biology and Biotechnology	: 24 years
M.Phil: Biotechnology	: 5 years
Ph.D.: Plant Biotechnology, Phytochemistry and Microbiology	: 24 years

C). Research Output

National

1. **Jeyachandran, R.**, Stephen, J. and George, V.K. (1988). Chemostress induced biochemical changes in *Chara hispida*, perspective in Phycology. V.N.Rajarao (Ed.), Today and Tomorrow's Printers and Publishers, New Delhi. pp 221-222.
2. Thangeswaran, A., **Jeyachandran, R.** and George, V.K. (1991): A preliminary investigation on UV-filters in two cultivars of mung bean. Environment and Ecology. 9(4): 1038-1040.
3. **Jeyachandran, R.** and George, V.K. (1991). Zinc toxicity and its alleviation by calcium salts in *Scenedesmus acutus* 273. Journal of Ecotoxicology and Environmental Monitoring. 1: 180-184.
4. **Jeyachandran, R.** and George, V.K. (1992). A relationship between delta amino levulinic acid dehydratase activity and chlorophylls in salt-stressed seedlings of mung bean. Journal of Ecobiology. 4: 197-199.
5. **Jeyachandran, R.** and Anand, S. (2002). 'Nickel – induced Biochemical changes on *Vigna radiata* L. Wilczek and *Zea mays* L. The Journal of the Swamy Botanical Club 19: 47-50
6. **Jeyachandran, R.** (2002). Bioconversion potential of *Capsicum frutescens* L. for the production of Capsaicin. The Journal of the Swamy Botanical Club 19: 31-33.
7. Anand, S.P. and **Jeyachandran, R.** (2003). Antibacterial activities of *Zehneria scabra* root extracts. Journal of Tropical Medicinal Plants 4(2) 1-7
8. **Jeyachandran, R.** and Anand, S.P. (2003). Effect of chromium on morphological and Biochemical changes of *Zea mays* L. and *Sorghum vulgare* L. Journal of Swamy Botanical Club, 20: 43-48.
9. **Jeyachandran, R.**, Anand S.P. and Cindrella, L. (2004). *In vitro* multiplication of *Anisochilus carnosus* from nodal explants, Journal of Swamy Botanical Club 22: 27-30.
10. **Jeyachandran, R.**, V.Muthumani and Anand, S.P. (2004). Role of laccase in the detoxification of pesticides, Convergence. 6:(1-4) 91-97.

11. **Jeyachandran R.** and L.Cindrella (2004). Different levels of Genome analysis in Bioinformatics. RETELL 5:(1) 17- 19.
12. Alex Ramani, V., Arunachalam, T., S. Joseph Selvaraj and **Jeyachandran R.**, (2004). An Antimicrobial study with the aqueous ethanol extract of *Anisochilus carnosus* L. RETELL 5:(1) 28- 29.
13. **Jeyachandran R.** and L.Cindrella (2005). Chemoinformatics resources and their pipelines in Biology. RETELL 5:(2), 37-38.
14. **Jeyachandran, R.** and Anand, S. P. (2005) Sensitivity of Bacterial Pathogens on the medicinal plant *Tinospora cordifolia* (Wild.) Hook. F. and Thomson. Asian Journal of Microbiology, Biotechnology and Environmental Science. 7: (3) 555-557.
15. **Jeyachandran, R.** and Anand, S. P. and Thangavel P. (2005). ‘*In vitro* micropropagation of *Enicostemma littorale* through leaf explants. Journal of the Swamy Botanical Club, 22:113-116.
16. **Jeyachandran R** and Vengat P (2006) Effect of *Telfairia occidentalis* on blood glucose levels in normal and alloxan induced diabetic rats. RETELL, 6(1). 82-86.
17. Anand, S. P. and **Jeyachandran, R.** (2006). Enumeration of some potential and tribal medicinal plants of Bodamalai hills in Namakkal district of Tamil Nadu. Journal of Economic, Taxonomic Botany.
18. Kavitha J V, Rosario J.F, G.Stalin, **Jeyachandran R** and Vengat P (2006) Effect of *Telfairia occidentalis* on blood glucose levels in normal and alloxan induced diabetic rats. RETELL, 5 (2).
19. **Jeyachandran R** and Cindrella L. (2006). RNAi Technology – Revolutionizing the field of functional genomics. RETELL, 6(1), 87-88.
20. Kavitha J V, Jane F M **R Jeyachandran**, G.Stalin, and Joseph F R, (2006). Preventive effect of diacare on Dexamethasone and fructose induced insulin resistance in rats. Indian Journal of Physiology and pharmacology
21. **Jeyachandran, R.** and Karthik Mohan, Therapeutic potentiality of adipocytes RETELL, 2010.
22. Anand, S. P. and **Jeyachandran, R.** (2010). Enumeration of some potential and tribal medicinal plants of Bodamalai hills in Namakkal district of Tamil Nadu. Journal of Economic, Taxonomic Botany (In Press).

International

23. **Jeyachandran, R.** and George, V.K. (1986). Salt injury in germinating seeds of *Vigna mungo* (L.) Hepper. Journal of Current Biosciences, 3: 72-74.
24. **Jeyachandran, R.** and George, V.K. (1987). Exclusion of solutes and ions in germinating sunflower seeds. Journal of Plant Nutrition. 10: 1631-1635.
25. Thangeswaran, A. and **Jeyachandran, R.** (1991). Differential susceptibility of two mung bean cultivars to UV-C irradiation. Journal of Environmental Biology. pp 377-380.

26. Franklin, G., **Jeyachandran, R.**, Melchias, G. and Ignacimuthu, S. (1998). Multiple shoot induction and regeneration of pigeon pea (*Cajanus cajan* (L.) Millsp) cv. Vamban-1 from apical and auxillary meristem. *Current Science*. 74(11): 936-937.
27. Franklin, G., **Jeyachandran, R.**, and Ignacimuthu, S. (2000). Factors affecting regeneration of pigeon pea (*Cajanus cajan* L. Millsp) from mature embryonal axes. *Plant Growth Regulation* 30: 31-36.
28. **Jeyachandran, R.**, T. Francis Xavier and Anand, S.P. (2004). Antibacterial activity of stem extracts of *Tinospora cordifolia* (Willd) hook.f & Thompson. *Ancient Science of Life* Vol. No. XXIII (1) pp 40-43.
29. **Jeyachandran, R** Premkumar A and Ganapathy A, (2004). Callusing, somatic embryogenesis and organogenesis in *Cajanus cajan* L *Asian Journal of Microbiology, Biotechnology and Environmental Science*. 6:(3) 403-407.
30. **Jeyachandran, R.**, Anand S.P. and Cindrella, L. (2004). *In vitro* Plant regeneration of *Premna latifolia* roxb.from nodal explants. *Journal of natural products*. (in press).
31. **Jeyachandran, R.**, T. Francis Xavier and Anand, S.P. (2004). Antibacterial activity of stem extracts of *Tinospora cordifolia* (Willd) hook.f & Thompson. *Ancient Science of Life* Vol. No. XXIII (1) pp 40-43.
32. **Jeyachandran, R.** and Vasukidevi. (2005).Signal step preparation of pure plasmid DNA from Bacterial cells.*Biochem.Cell.Arch*.6(1):77-78.
33. **Jeyachandran, R.** and Vasukidevi. (2005). Expression of Chitinasev gene in transgenic Cowpea (*Vigna unguiculata*(L.) WALP).*Biochem. Cell. Arch*. 6(1):77-78.
34. **Jeyachandran, R.** and A. Mahesh (2006) Regeneration of *Teraxacum officinale* through nodal explant. *Journal of Tropical Medicinal Plants, Malaysia*. Vol.6 (2): 245-248.
35. Anand, S. P. and **Jeyachandran, R.** (2006). *In vitro* multiple shoot plant regeneration from nodal explants of *Zehneria scabra*. *Journal of Tropical Medicinal Plants, Malaysia*, Vol.6 (2): 249-252.
36. **Jeyachandran,R.**, Nagarajan,S,M., Rajasekaran,S. and Kandasamy,S.(2006).*In vitro* studies on *Swietenia mahagoni* (L.) JACQ. *Asian Jr. of Microbiol. Biotech. Env. Sc. Vol.8, No(3):1*
37. **Jeyachandran,R.** and Karthic Mohan.(2006). Effect of Stevia rebaudiana leaf extract in experimentally induced Myocardial infarction in male albino rats.*J.Trop.Med.Plants..7(1)*, 63-67.
38. **Jeyachandran, R.** and A. Mahesh (2006) Regeneration of *Teraxacum officinale* through nodal explant. *Journal of Tropical Medicinal Plants, Malaysia*. Vol.6 (2): 245-248.
39. **Jeyachandran, R.** and Mahesh, A. (2007). Enumeration of antidiabetic herbal flora of Tamil nadu. *Research Journal of Medicinal plant*. 1(4): 144- 148.

40. **Jeyachandran, R.**, Mahesh, A. and Cildrella. (2007). DEN - induced cancer and its alleviation by *Anisomeles malabarica* (L.) R. Br. ethanolic leaf extract in male albino mice. *International Journal of Cancer Research*. 3(4): 174- 179.
41. **Jeyachandran, R.** and Mahesh, A. (2007). *Agrobacterium rhizogenes* mediated hairy root induction in *Oxystelma esculentum* (L.f). R.Br. *Journal of Biological Research*. 8: 207- 212.
42. **Jeyachandran, R.** and Mahesh, A. (2007). Antimicrobial evaluation of *Kigelia africana* (Lam). *Research Journal of Microbiology*. 2(8): 645- 649.
43. **Jeyachandran, R.**, Mahesh, A., Cindrella, L and Baskaran, X. (2008). Screening Antibacterial Activity of Root Extract of *Cocculus hirsutus* (L.) Diels. used in folklore remedies in south India. *Journal of plant sciences.*, 3(2): 194- 198.
44. John Peter Paul J and **Jeyachandran R.** 2008. Micropropagation of *Citrullus colocynthis* (L.) Schrad-an important Medicinal Plant. *Indian Journal of Botanical Research* 4(2): 183-188.
45. **Jeyachandran, R.**, Mahesh, A., Cindrella, L., Sudhakar, S. and Pazhanichamy, K. 2009. Antibacterial activity of Plumbagin and root extracts of *Plumbago zeylanica* L. *Acta Biologica Cracoviensia Series Botanica* 51(1): 17-22.
46. Karthik Mohan, **Jeyachandran Robert** 2009, Protective Effect of *Stevia rebaudiana* Bertoni on Cadmium-induced Nephrotoxicity in Male Albino Rats, *International Journal of Biomedical and Pharmaceutical Sciences*, Vol 3(1); 26-28.
47. Karthik Mohan, **Jeyachandran Robert** 2009, Hepatoprotective Effect of *Stevia rebaudiana* Bertoni on Ccl4-induced liver injury in Male Albino Rats, *Medicinal and Aromatic Plant Science and Biotechnology*. Vol 3(1); 59-61.
48. **Jeyachandran R.**, Baskaran X and L Cindrella, 2010. *In vitro* direct regeneration of nodal explant of *Justicia prostrata* Gamble. *International Journal of Biological Technology*, 1(1):90-93.
49. **Jeyachandran R.**, Baskaran X and L Cindrella, 2010. *In vitro* Antibacterial activity of three Indian medicinal plants. *International Journal of Biological Technology*, 1(1):103-106.
50. Mahesh, **R. Jeyachandran**, L. Cindrella, D. Thangadurai, V. P. Veerapur and D. Muralidhara Rao 2010. Hepatocurative potential of sesquiterpene lactones of *Taraxacum officinale* on carbon tetrachloride induced liver toxicity in mice. *Acta Biologica Hungarica* 61(2), pp. 175–190.
51. Anand, S. P., **R. Jeyachandran** and V. Nandagopalan, 2011. NMR Spectral Analysis on Root Extract of *Zehneria scabra* - A Vital Medicinal Climber. *Journal of Pharmaceutical Sciences and Research (JPSR)*, 3(1), 1015-101.
52. Baskaran X., and **Jeyachandran R.**, 2010. Evaluation of Antioxidant and Phytochemical Analysis of *Pteris tripartita* Sw.- a critically endangered fern from South India. *Journal of Fairylake Botanical Garden* 9(3), pp. 28-34.
53. **Jeyachandran R.**, X. Baskaran and L. Cindrella, 2010. Screening of Phytochemical and Antibacterial Potential of Four Indian Medicinal Plants. *Libyan Agriculture Research Center Journal International* (5): 301-306.

Book Chapters:

1. **Jeyachandran, R.** A Chapter on “Plant Medicines”, in the book entitled “Ethnomedicine and Human Welfare”. (ed.) Irfan Ali Khan (2003), Ukaaz Publications, Hyderabad, S.INDIA, pp. 162-179.
2. **Jeyachandran, R.** A Chapter on “Ecosystem”, in the book entitled “Environmental studies”, published by St. Joseph’s College, Tiruchirappalli, 2004, pp.47-59.
3. **Jeyachandran, R.** and Reena Rose Mathew (2005) Transgenic plants as Bioreactor In: *Biotechnology in the welfare of mankind Vol I* Eds: Irfan Ali Khan and Adithya Khanum UKAAZ publication Hydrabad-36, pp.225 -254.
4. **Jeyachandran, R.,** and Yogeswari, P. (2007). Enzymes as indicators of Diseases, In: *Role of Biotechnology in Medicinal and Aromatic plants*. Ali Khan, I., Khanum, A. and Ahad khan, A. (eds). Ukaaz publications, Hyderabad, pp 1-27.
5. **Jeyachandran, R.,** and Karthikeyan, S. (2007). Methods of Antigen presentation, In: *Role of Biotechnology in Medicinal and Aromatic plants*. Ali Khan, I., Khanum, A. and Ahad khan, A. (eds). Ukaaz publications, Hyderabad, pp 28-65.
6. Mahesh, A., **Jeyachandran, R.,** Cindrella, L. Thangadurai, D. and Pinheiro de Carvalho, M.A.A. (2008). Phytochemical, Pharmacological and Tissue Culture Studies on *Taraxacum officinale* Weber (Asteraceae). In: *Biotechnology for food, Environment and Agriculture*, Vol. I. Thangadurai, D. (eds.), Agrobios Press, India. pp. 235-251.
7. **Jeyachandran, R.,** Mahesh, A. and Cindrella, L. (2008). Hepatoprotective Medicines, In: *Role of Biotechnology in Medicinal and Aromatic*, Vol- XIX. Ali Khan, I., Khanum, A. and Ahad khan, A. (eds). Ukaaz publications, Hyderabad. pp 114-142.
8. **Jeyachandran, R.,** Mahesh, A. and Cindrella, L. (2008). Nephroprotective Plant Medcines, In: *Role of Biotechnology in Medicinal and Aromatic*, Vol- XIX. Ali Khan, I., Khanum, A. and Ahad khan, A. (eds). Ukaaz publications, Hyderabad. pp 143-168.
9. **Jeyachandran, R.,** Mahesh, A. and Cindrella, L. (2008). Immunotoxicology, In: *Role of Biotechnology in Medicinal and Aromatic*, Vol- XX. Ali Khan, I., Khanum, A. and Ahad khan, A. (eds). Ukaaz publications, Hyderabad. pp 262-290.
10. **Jeyachandran, R.,** Mahesh, A. and Cindrella, L. (2008). Pathogenesis of Poliomyelitis, In: *Role of Biotechnology in Medicinal and Aromatic*, Vol- XIX. Ali Khan, I., Khanum, A. and Ahad khan, A. (eds). Ukaaz publications, Hyderabad. pp. 271-296.
11. **Jeyachandran R,** Mahesh A and L Cindrella, 2009, Glucosamine – A Novel Medicine for Arthritis in *The Role of Biotechnology in Medicinal and Aromatic Plants*, Volume-XXI, pp 246-272,Ukaaz Publications, Hyderabad.
12. **Jeyachandran R,** Mahesh A and L Cindrella, 2009, Epidemiology of Hot Water Epilepsy in *The Role of Biotechnology in Medicinal and Aromatic Plants*, Volume-XXI, pp 273-296, Ukaaz Publications, Hyderabad.

13. **Jeyachandran R**, Baskaran X and L Cindrella, 2009, Brain Cell Damage in Stroke in The Role of Biotechnology in Medicinal and Aromatic Plants, Volume-XXII, pp 43-71, Ukaaz Publications, Hyderabad.

D) Abroad Visits:

S.No.	Title	Place	Period
1	Workshop on “Techniques in Molecular Morphology, Imaging, Gene Expression & Behavioural Analysis”	School of Medicine and Health Sciences, Monash University, Malaysia	Nov. 20 th -24 th 2006
2	Nanotech 2007 Workshop on “Biomaterial and nano technology for tissue engineering”	Santa Clara, California, USA.	May 20 th 2007
3	Nanotech 2007 Conference and Exposition	Santa Clara, California, USA.	May -21 st – 24 th 2007
4	3 rd Global Summit On Medicinal and Aromatic Plants (GOSMAP- 3)	Chiang Mai University, Chiang Mai, Thailand.	Nov 21 st - 24 th 2007
5	World conference on Medicinal and aromatic plants (WOCMAP IV) Chaired a session in the Conference.	Cape Town, South Africa.	Nov. 9 th -14 th 2008
6	XVIII international Botanical Congress	Melbourne, Australia.	Jul.23 rd -30 th 2011

F) Research Projects undertaken:

Name of the Project	Funding Agency	Position held	Period	Remarks
Screening for salt tolerance of recently released paddy varieties in Tamil Nadu	UGC	Principal Investigator	1992-93	Completed
Identification of elite clones of Jatropha in the field and their micropropagation in the laboratory and transfer of the same to the rural areas for commercial exploitation	TNSC&ST	Co-investigator	1994-96	Completed
Popularisation of herbal medicine through promotion of	Combined services Third	Co-investigator	1994-95	Completed

Herbal Garden	World Fund, Dublin			
Biomolecular screening of root specific phytochemicals through hairy root culture in <i>Toddalia asiatica</i> (L.) Lam. an endangered plant	UGC, New Delhi	Principal Investigator	2003-05	Completed
Biotransformation of root specific phytochemicals through hairy root culture in <i>Oxystelma esculentum</i> (L.f). R.Br	UGC, New Delhi	Principal Investigator	2007-08	Completed

G) Conference/Seminars/Workshops attended:

National

1. **Jeyachandran, R.** and George, V.K. (1984). Salinity induced changes in germinating seeds of *Vigna radiata* (L.) Wilczek. Proceedings of the 53rd Annual Meeting, Society of Biological Chemists (India), New Delhi, p 71.
2. **Jeyachandran, R.** and George, V.K. (1984). Organic Solutes in Salt-stressed germinating seeds of *Vigna mungo* (L.) Hepper. Proceedings of the 56th Annual Meeting of the Society of Biological Chemists (India), Tirupathi.
3. **Jeyachandran, R.** and George, V.K. (1985). Relative Salt tolerance of some South Indian Cowpea varieties. Proceedings of the National Seminar in Plant Physiology, Varanasi, p 62.
4. **Jeyachandran, R.** (1985). Salinity effects of membrane permeability in germinating seeds of *Vigna mungo* (L.) Hepper. Proceedings of the 54th Annual Meeting, Society of Biological Chemists (India), Patnagar.
5. **Jeyachandran, R.** and George, V.K. (1985). Enzyme activities in Salt stressed corn leaves. Proceedings of the National Seminar in Plant Physiology, Manipur.
6. **Jeyachandran, R.** and George, V.K. (1985). Physiological responses of barley cultivars under substrate salinization. Proceedings of the National Seminar on Plant Molecular biology, Nitrogen metabolism and Plant Nutrition, New Delhi.
7. **Jeyachandran, R.** and George, V.K. (1985). Influence of chloride and sulphate salinity on proline and cations accumulation in the leaves of *Zea mays* L., Proceedings of the National Seminar in Plant Physiology and Biochemistry for Scientists, Lucknow.
8. **Jeyachandran, R.** and George, V.K. (1986). Nitrogen metabolism in salt-stressed *Zea mays* L. leaves. Proceedings of the 73rd Indian Science Congress, New Delhi.
9. **Jeyachandran, R.** and George, V.K. (1986). Salinity induced biochemical changes in the leaves of soybean. Proceedings of the 55th Annual Meeting of Society of Biological Chemists (India), Trivandram.

10. **Jeyachandran, R.** and George, V.K. (1987). A relationship between leaf osmotic potential, proline and total free amino acid contents in salt-stressed *Sorghum bicolor* (L.). Monech. Proceedings of the 74th Indian Science Congress, Bangalore.
11. **Jeyachandran, R.** and George, V.K. (1987). Effect of Na⁺ and K salinities on pigment composition and cationic accumulation in soybean leaves. Proceedings of the National Seminar on Physiology and Biochemistry of Soil Seed Plants, Tirupati.
12. **Jeyachandran, R.** and George, V.K. (1987). Deleterious effect of NH₄NO₃ in *Chara hispida* L. Proceedings of All India Symposium on Aquatic Organisms, Poondi.
13. **Jeyachandran, R.** and George, V.K. (1987). Iron Nutrition in mung bean exposed to soil salinity. Paper presented in the 4th International Symposium on Iron Nutrition and Interactions in Plants, New Mexico, USA.
14. **Jeyachandran, R.** and George, V.K. (1987). Exclusion of solutes and ions in germinating sunflower seeds. Journal of Plant Nutrition. 10: 1631-1635.
15. **Jeyachandran, R.** and George, V.K. (1988). Supplementary effect of KNO₃ on *Azolla pinnata* (R.Br.). Proceedings of the 75th Annual Meeting of the Indian Science Congress, Pune.
16. **Jeyachandran, R.** and George, V.K. (1988). Cations in salt-stressed leaves of *Cicer arietinum*. Proceedings of 2nd Convention of Society for Green Vegetation Research, Kanpur.
17. **Jeyachandran, R.** and George, V.K. (1988). Salinity induced membrane functions in germinating seeds of soybean. Proceedings of first convention of the Indian Society of Agricultural Biochemists, Kanpur.
18. **Jeyachandran, R.**, Stephen, J. and George, V.K. (1988). Chemostress induced biochemical changes in *Chara hispida*, perspective in Phycology. V.N.Rajaroo (Ed.), Today and Tomorrow's Printers and Publishers, New Delhi. pp 221-222.
19. **Jeyachandran, R.** and George, V.K. (1989). Ameliorating effect of calcium salts on zinc toxicity of *Scenedesums acutus* 273-3A. Proceedings of the 76th Annual Meeting of Indian Science Congress Association, Madurai.
20. **Jeyachandran, R.** and George, V.K. (1989). Influence of salinity on NPK uptake and yield of mung bean. Proceedings of National Symposium on Centenary Celebration of Biological Nitrogen Fixation Research, Hissar.
21. **Jeyachandran, R.** and George, V.K. (1989). Salinity effect on germinability, establishment and yield of mung bean. Proceedings of the 3rd Convention of Society for Green Vegetation Research, Gorakhpur.
22. **Jeyachandran, R.** and George, V.K. (1989). Pigment components in salt stressed seedlings of mung bean. Proceedings of the Symposium on Current Advances in Molecular Biochemistry Applications in Health, Environment and Agriculture', Lucknow.
23. **Jeyachandran, R.** and George, V.K. (1990). Pigment components in UV-C irradiated leaves of mung bean. Proceedings of 77th Annual Meeting of Indian Science Congress Association, Cochin.
24. Selvarani, N. and **Jeyachandran, R.** (1990). Supplemental effects of NaNO₃ on maize under salt stress. Proceedings of the 11th Annual Session of the Academy of Environmental Biology, Aurangabad.

25. Premkumar, A., Selvarani, N., **Jeyachandran, R.** and George, V.K. (1990). Interacting effect of UV-B water stress on biochemical changes in cowpea. Proceedings of the National Seminar for Young Scientists on Environmental Plant Physiology, HAPPRC, Srinagar, Garwal.
26. Premkumar, A., **Jeyachandran, R.**, Sathiaseeli, M.R. and George, V.K. 1991. Diurnal fluctuation of Nitrate Reductase activity in some tree species. Proceedings of the 78th Annual Meeting of Indian Science Congress Association, Indore.
27. Thangeswaran, A. and **Jeyachandran, R.** (1991). Differential susceptibility of two mung bean cultivars to UV-C radiation. Proceedings of the 11th Annual Session of the Academy of Environmental Biology, Aurangabad.
28. **Jeyachandran, R.** and George, V.K. (1991). Salinity Nitrate interaction on the uptake and accumulation of certain minerals in cowpea and maize. Proceedings of the 79th session of the Indian Science Congress, Vadodara, Baroda.
29. **Jeyachandran, R.** and George, V.K. (1993). Growth response of mung bean to soil salinity. Proceedings of the 80th Annual Session of Indian Science Congress Association, Goa.
30. **Jeyachandran, R.** and John Britto, S. (1993). Cytozyme mediated changes in pigment components in mungbean and urdbean. Proceedings of the 16th Indian Botanical Congress, Jabalpur.
31. **Jeyachandran, R.** and John Britto, S. (1994). The role of UV-A in photo reactivation and photo protection of chlorophylls in vigna species. Proceedings of the 81st Annual Session of Indian Science Congress Association, Jaipur.
32. **Jeyachandran, R.**, Selvaraj, R. and John Britto, S. (1995). Effect of bacterial Biofertilizers on establishment and yield of urd bean. Proceedings of National Seminar on Microorganisms in Sustainable Agriculture, Thiagarajar College, Madurai.
33. Padmavathi, N., Selvaraj, R. and **Jeyachandran, R.** (1995). Seed dressing effect of Rhizobium, phosphobacterium and their interaction on growth and yield of urd bean. Proceedings of National Seminar on Microorganisms in Sustainable Agriculture, Thiagarajar College, Madurai.
34. **Jeyachandran, R.**, Selvaraj, R. and John Britto, S. (1996). Effect of *Azospirillum* broth on root induction in Horticultural crops. Proceedings of the National Seminar on 'Role of Crop Physiology in improving agricultural productivity. New Vistas for Plant Physiological Research, TNAU, Coimbatore.
35. **Jeyachandran, R.**, Selvaraj, R. and John Britto, S. (1996). Isolation and establishment of *Azospirillum lipoferum* broth for commercial exploitation. Proceedings of the II National level symposium BIOTECHCELLENCE'96, Anna University, Chennai.
36. Francis Sathiyaseelan, M., **Jeyachandran, R.** and John Britto, S. (1996). Tissue culture of *Achyranthes aspera* variety *Aspera* (L) – A medicinal plant. Proceedings of the National Symposium on current trends in Plant Biochemistry and Biotechnology, CCS, Haryana Agricultural University, Hissar, Haryana.
37. Milton Prabakaran, V., John Britto, S. and **Jeyachandran, R.** (1996). Differential callusing efficiency of *Jatropha multifida* L. to 2, 4-Dichloro phenoxyacetic acid.

- Proceedings of the National Symposium on current trends in Plant Biochemistry and Biotechnology, CCS, Haryana Agricultural University, Hissar, Haryana.
38. Francis Sathiyaseelan, M., **Jeyachandran, R.** and John Britto, S. (1996). Induction of callus in various explants in *Mukia maderaspatana* (L.) M Roemer – A medicinal plant. Proceedings of the National Conference on Environmental Biotechnology, Bharathidasan University, Tiruchirappalli.
 39. Sathya Bama, S., **Jeyachandran, R.** and Selvaraj, R. (1996). Studies on the responses of Maize to *Azospirillum*, phosphobacterium and their interaction. Proceedings of the X South Regional Conference on Microbial inoculants, Tanjore, Tamil Nadu.
 40. **Jeyachandran, R.**, Selvaraj, R. and John Britto, S. (1997). Seed dressing effect of bioinoculants on growth and nutrient uptake in Mung bean. Paper presented in the National Symposium on Natural Resources Management Systems, St. Joseph's College, Tiruchirappalli.
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 137. **Jeyachandran R**, Anand S P and P Thangavel (2006). Indirect plantlet regeneration from the nodal explants of *Enicostemma littorale* Blum., Proceedings of DBT sponsored National Symposium on Frontier areas in Plant Biotechnology organized by Department Botany & Post graduate Department of Microbiology, Lady Doak College, Madurai, 20th & 21st January 2006.
 138. **Jeyachandran R**, and Reena R M (2006). Protein profiling Den induced cancer and treated serum of rats, Proceedings of Emerging trends in Animal Biotechnology organized by Department Animal Science, Bharadhidasan University, Tiruchirappalli, 27th & 28th January 2006.
 139. **Jeyachandran R**, and Mahesh A (2006). *Cocculus hirsutus* (L.) Diols –a potential antigonorrhoea and antihypertensive drug, Proceedings of National Seminar on human perspective of Biotechnology organized by School of Biosciences, Mahendra Arts and Science College, Kalippatti, 11th & 12th February 2006.
 140. **Jeyachandran R**, Anand S P and Tagore A J K (2006). Micropropagation of *Premna integrifolia* L. through shoot tip explant, Proceedings of 3rd National Symposium on Modern Biological Sciences (SyMBioS-'06) organized by School

- of Biosciences & Research, SNMV College of Arts and Science, Coimbatore, 15th & 16th February 2006.
141. Anand S P, Nagomie P and **Jeyachandran R** (2006). *In vitro* studies on *Clitoria ternatia* L. – an important medicinal plant, Proceedings of DST Sponsored National Seminar on Frontier areas in Biological research, organized by Department of Biotechnology, Bishop Heber College (Autonomous), Tiruchirappalli, 20th & 21st February 2006.
 142. **Jeyachandran R**, Periyamayagam K and Anand S P (2005). Multiple shoot induction through shoot tip explants of *Melothria maderaspatana* L., Proceedings of DST Sponsored National Seminar on Frontier areas in Biological research, organized by Department of Biotechnology, Bishop Heber College (Autonomous), Tiruchirappalli, 20th & 21st February 2006.
 143. **Jeyachandran R**, Jayakumar E and Anand S P (2005). *In vitro* micropropagation of *Passiflora foetida* through nodal explant, Proceedings of DST Sponsored National Seminar on Frontier areas in Biological research, organized by Department of Biotechnology, Bishop Heber College (Autonomous), Tiruchirappalli, 20th & 21st February, 2006.
 144. Anand, S. P. and **Jeyachandran, R.** (2006). Enumeration of Ethno medicinal plants in Bodamalai hills of Tamil Nadu, Proceedings of National Seminar on Recent trends in Biosciences organized by Departments of Microbiology, Biochemistry, Botany & Zoology, Vivekanandha College of Arts and Science for Women, Tiruchengodu, 23rd & 24th February 2006.
 145. **Jeyachandran R**, and Mahesh A (2006). *In vitro* micropropagation of *Cocculus hirsutus* (L.) Diols through nodal explant, Proceedings of National Seminar on Advances in Plant Science organized by Department of Plant Science, Bharathidasan University, Tiruchirappalli, 24th & 25th February 2006.
 146. **Jeyachandran R**, and Cindrella L. (2006). Microbial proteases – current problems and potential solutions, Proceedings of National Seminar on Advances in Enzymology organized by Department of Plant Science, Bharathidasan University, Tiruchirappalli, 9th & 10th March 2006.
 147. **Jeyachandran, R.** and Mahesh, A. (2006). Comparative Antibacterial Efficacy of Cissampelos Pareira L. National Seminar On Current Trends in Biotechnology Applications. Thiagarajar College. Madurai. July 20-21.
 148. **Jeyachandran, R.** and Cindrella, L. (2006). cDNA microarray: An invaluable tool for the identification of gene alterations at the mRNA level. National Level seminar on ‘Advances in Biological Sciences’, Department of Biotechnology and Microbiology. Hindusthan College of Arts and Science, Coimbatore. 8 Aug 2006.
 149. **Jeyachandran, R.,** Mahesh, A. and Kavitha, C. (2006). Antimicrobial evaluation of the leaf extracts of Clerodendrum phlomides. National Level seminar on ‘Advances in Biological Sciences’, Department of Biotechnology and Microbiology. Hindusthan College of Arts and Science, Coimbatore. 8 Aug 2006.
 150. **Jeyachandran, R.,** Mahesh, A. and Kavitha, K. (2006). Isolation and characterization Bioactive principles from Trichodesma indicum and its efficacy on disease pathogens. National seminar on ‘Recent Advances in plant Biology’, Research Department of Botany. Virudhunagar Hindu Nadar’s Senthikumara Nadar College. Veirudhunar. 10-11 Aug 2006.

151. **Jeyachandran, R.,** Arunkumar, V., Balaji and Karthik Mohan (2006).Effect of *Stevia rebaudiana* leaf extract on cadmium induced liver toxicity in male albino rats. National seminar on 'Recent Advances in plant Biology', Research Department of Botany. Virudhunagar Hindu Nadar's Senthikumara Nadar College. Veirudhunar. 10-11 Aug 2006.
152. **Jeyachandran, R.,** Balaji and Karthik Mohan. (2006).Protective effect of *Stevia rebaudiana* leaf extract on cadmium induced liver toxicity in male albino rats. National seminar on 'Recent Advances in plant Biology ', Research Department of Botany. Virudhunagar Hindu Nadar's Senthikumara Nadar College.Veirudhunar. 10-11 Aug.
153. **Jeyachandran, R.** Venkatesan, S and Mahesh. A. (2006). A suitable protocol for the micropropagation of *Anisomeles, malabarica* (L) R.Br., National Level Seminar on 'Future Scenario of Biosciences' Organized by Flora, People of Biology and Biogenic, Institute of Biotechnology, Namakkal.11-12 Aug.
154. **Jeyachandran, R.** Sudhakar, S. and Mahesh. A. (2006).Micropropagation of *Plumbago zeylanica* L. through shoot tip explants , State Level seminar on New Thrust in Bioscience. Department of Microbiology, Biochemistry, Botany & Zoology, Vivekanandha College of Arts & Sciences for women, Tiruchengode , Namakkal .18 Aug.
155. **Jeyachandran, R.,** Mahesh, A. and Udayakumar,S. (2006). *Kigelia africana*-An effective antibacterial herbal medicine. One day National Seminar On Thrust Areas In Biotechnology. Bishop Heber College. Tiruchirappalli.Sep 19.
156. **Jeyachandran, R.,** Mahesh, A. and Devi,A. (2006). A suitable protocol for the Micropropagation of *Oxystelma esculentum* (L.f.) R.Br. One day National Seminar On Thrust Areas In Biotechnology. Bishop Heber College. Tiruchirappalli. Sep 19.
157. **Jeyachandran, R.,** Sripriya,S. and Mahesh, A. (2006). Phytochemical and Pharmacological importance of *Calophyllum inophyllum*. One day National Seminar On Thrust Areas In Biotechnology. Bishop Heber College. Tiruchirappalli. Sep 19.
158. **Jeyachandran, R.,** Vincy,C.and Mahesh, A. (2006). Phytochemical and Pharmacological investigations of *Alangium salvifolium*.. One day National Seminar On Thrust Areas In Biotechnology. Bishop Heber College. Tiruchirappalli. Sep 19.
159. **Jeyachandran, R.,** Amutha,R. and Mahesh, A. (2006). *Carissa carandar*- An Antianthelmintic herbal remedy.One day National Seminar On Thrust Areas In Biotechnology. Bishop Heber College. Tiruchirappalli. Sep 19.
160. **Jeyachandran, R.,** Baskaran,X. and Anand,S.P. (2006). Antihypertensive Nature of *Ruta graveolens* (L). One day National Seminar On Thrust Areas In Biotechnology. Bishop Heber College. Tiruchirappalli. Sep 19.
161. **Jeyachandran, R.,**Balu,P. and Anand,S.P. (2006). *Lawsonia inermis* (L) –A Potential Antifertility herbal remedy. One day National Seminar On Thrust Areas In Biotechnology. Bishop Heber College. Tiruchirappalli. Sep 19.
162. **Jeyachandran, R.** and Cindrella, L. (2006). Genetic Engineering of Microbial Proteases. Two Day National Conference on “ Microbial Enzyme Technology”. Karpagam Arts and Science College. Coimbatore. Oct 4-5.

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167. **Jeyachandran, R.,** Mahesh, A. and Venkadesan, S.(2006). *Anisomeles malabarica*- a potential herbal remedy against various Gm^{+ve} and Gm^{-ve} bacteria. National Seminar On Emerging Trends In Biological Sciences. Shrimati Indira Gandhi College.Tiruchirappalli. Oct 9-10.
168. **Jeyachandran, R.,** Mahesh, A. and Pazhanichamy. (2006). Broad spectrum activity of *Plumbago zeylenica* L. against various disease causing pathogens. National Seminar On Emerging Trends In Biological Sciences. Shrimati Indira Gandhi College.Tiruchirappalli. Oct 9-10.
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170. **Jeyachandran, R.** and Cindrella, L. (2006). Issues and choices for antibody and other capture arrays. National Seminar On Coputational Genomics. Srimad Andavan Arts and Science College. Tiruchirappalli. Oct 12-13.
171. **Jeyachandran, R.** and Cindrella, L. (2006). Protein microarray technology – Revolutionizing the field of applied biology and Pharmaceutical industries. 4th International Symposium On Biocontrol And Biotechnology. Lady Doak College. Madurai. Nov 27- 29.
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173. **Jeyachandran, R.,** Sindhu, K.K. and Mahesh, A. (2006). *Indigofera aspalathoides*- as effective medicine for sexually transmitted diseases. State level Seminar on Tribals, Forests and Futures. Organized by Centre for Future Study. Gandhigram Rural University. Dindigul. Dec 11.
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175. **Jeyachandran, R.,** Vincy, S. and Mahesh, A. (2007). Evaluation of pharmacological properties of *Argemone maxicana*. National Seminar On New Frontiers In Biological Science. Organized by Department of Botany. Holy Cross College. Tiruchirappalli. Jan 19-20.
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 180. **Jeyachandran, R.,** Karthkeyan, N. and Mahesh, A. (2007). *In Vitro* conservation strategy for the mass propagation of *Merremia tridentate* (Linn). Organized by Department of Biotechnology. P.S.G.R.Krishnammal College for women. Coimbatore. Feb 10.
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 183. **Jeyachandran, R.** and Mahesh, A. (2007). *Agrobacterium rhizogenes* (Strain No. 15834) induced gene transfer in *Oxystelma esculentum* (L.f) R. Br. International Conference On "Opportunities and Challenges in Biotechnology and Environmental Science". Organized by Department of Botany. Vellalar College for Women. Erode. Feb 22-23.
 184. **Jeyachandran, R.,** Gnanaraja, R. and Mahesh, A. (2007). Antimicrobial role of *Calotropis gigantean* (L). National Symposium On Need Based Modern Trends in Ethnomedicine Research. Organized by Department of Botany. Kongunadu Arts and Science College. Coimbatore. Feb 26-27.
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Department of Botany. Kongunadu Arts and Science College. Coimbatore. Feb 26-27.

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187. **Jeyachandran, R.**, Mahesh, A. and Sathish Climer, C. (2007). Anticancerous property of *Indigofera aspalathoides*. National Seminar On Emerging Trends of Biotechnology in the medicinal plant. Organized by Department of Zoology. Nirmala College for women. Coimbatore. Feb 27-28.
188. **Jeyachandran, R.**, Mahesh, A. and Cindrella L. (2007). Antibacterial activity of *Indigofera aspalathoides* roots. National level seminar on Advances in Microbiology. Organized by Department of Microbiology. Kurinji College of Arts and Science. Tiruchirappalli. Oct 5.
189. **Jeyachandran, R.**, Mahesh, A. and Cindrella L. (2007). Phytotherapeutic value of *Launaea sarmentosa* (Willd.) Schult- Bip. National level seminar on Advances in Microbiology. Organized by Department of Microbiology. Kurinji College of Arts and Science. Tiruchirappalli. Oct 5.
190. **Jeyachandran, R.**, Mahesh, A., Gobinath, S. and Cindrella L. (2008). *In Vitro* Propagation of *Cucumis melo* L. through nodal explants. National Symposium on Sustainable Utilization and Conservation of Medicinal Plants. Organized by Department of Plant Biology and Plant Biotechnology. Nirmala College for Women. Coimbatore. August 21st and 22nd.
191. **Jeyachandran, R.**, Gobinath, S., Mahesh, A. and Cindrella L. (2008). Bioprospecting of *Cassia auriculata* L. National Symposium on Sustainable Utilization and Conservation of Medicinal Plants. Organized by Department of Plant Biology and Plant Biotechnology. Nirmala College for Women. Coimbatore. August 21st and 22nd.
192. **Jeyachandran, R.**, Antony Roseline, T., Mahesh, A., Gobinath, S. and Cindrella L. (2008). Ethnopharmacological importance of *Thymus vulgaris* L. National Symposium on Sustainable Utilization and Conservation of Medicinal Plants. Organized by Department of Plant Biology and Plant Biotechnology. Nirmala College for Women. Coimbatore. August 21st and 22nd.
193. **Jeyachandran, R.**, Meenakshi, C. T., Mahesh, A., Gobinath, S. and Cindrella L. (2008). Phytopharmaceutical Significance of *Psoralea corylifolia* L. National Symposium on Sustainable Utilization and Conservation of Medicinal Plants. Organized by Department of Plant Biology and Plant Biotechnology. Nirmala College for Women. Coimbatore. August 21st and 22nd.
194. **Jeyachandran R.**, Vanitha mani, J., Baskaran, X., and Cindrella L. Cardioprotective effects of *Bacopa monniera* L. Proceedings of the DST sponsored national seminar on phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirappalli- 620 002. March 29- 30. 2010.
195. **Jeyachandran R.**, Baskaran, X., and Cindrella L. Phytotherapeutic evaluation of *Calotropis procera* R. Br. Proceedings of the DST sponsored national seminar on

- phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirapalli- 620 002. March 29- 30. 2010.
196. **Jeyachandran R.**, M.Bastin, Baskaran, X., and Cindrella L. *Crotalaria biflora* L. A potential antitumor drug. Proceedings of the DST sponsored national seminar on phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirapalli- 620 002, March 29- 30. 2010.
 197. **Jeyachandran R.**, Baskaran, X., and Cindrella L. *Decalepis hamiltonii* Wight & Arn. – A popular health tonic. Proceedings of the DST sponsored national seminar on phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirapalli- 620 002. March 29- 30. 2010.
 198. **Jeyachandran R.**, Baskaran, X., and Cindrella L. Phytotherapeutic value of *Plumbago zeylanica*. Proceedings of the DST sponsored national seminar on phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirapalli- 620 002. March 29- 30. 2010.
 199. **Jeyachandran R.**, Gopal R., Baskaran, X., and Cindrella L. Pharmacological importance of *Rubia cordifolia* L. Proceedings of the DST sponsored national seminar on phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirapalli- 620 002. March 29- 30. 2010.
 200. Karthik Mohan, **Jeyachandran R.**, Demal Y., Saranya P., Gastroprotective effect of *Centella asiatica* leaf extract against ethanol induced ulceration in rats. Proceedings of the DST sponsored national seminar on phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirapalli- 620 002. March 29- 30. 2010.
 201. Karthik Mohan, Nisha, Lakshmi, **Jeyachandran R.**, Effect of *Citrus aurantium* peel extract on diet induced hyperlipidemia in male albino rats. Proceedings of the DST sponsored national seminar on phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirapalli- 620 002. March 29- 30. 2010.
 202. Karthik Mohan, **Jeyachandran R.**, Manimala and Rathina kumar G. Hepatoprotective effect of *Trianthema portulacastrum* Linn. Leaf extract in CCl₄ induced liver injury in albino rats. Proceedings of the DST sponsored national seminar on phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirapalli- 620 002. March 29- 30. 2010.
 203. Cilambarasan, Karthik Mohan, **Jeyachandran R.**, and Sundararaj S. Immunomodulatory activity of aqueous leaf extracts of *Stevia rebaudiana* BERTONI. Proceedings of the DST sponsored national seminar on phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirapalli- 620 002. March 29- 30. 2010.
 204. Karthik Mohan, **Jeyachandran R.**, Arockia Doss and Nandhini K., Antiinflammatory, Analgesic, Antipyretic and Antiarthritic effect of *Trianthema portulacastrum*. Proceedings of the DST sponsored national seminar on phytotherapeutics organized by Department of Biochemistry, St. Joseph's College, Tiruchirapalli- 620 002. March 29- 30. 2010.
 205. **Jeyachandran R.**, Baskaran X and L Cindrella. Phytochemical Screening and Antimicrobial Activity of *Indigofera aspalathoides* Vahl. Proceedings of the national conference on herbal medicine organized by the Department of Botany, Bharathiar University, Coimbatore, September 8- 9, 2010.

206. Baskaran X., **Jeyachandran R.**, and L Cindrella, 2010. *In vitro* regeneration through nodal explant of *Dipteracanthus prostratus* (Poir.) Nees. Proceedings of the national conference on herbal medicine organized by the Department of Botany, Bharathiar University, Coimbatore, September 8- 9, 2010.
207. **Jeyachandran. R.**, and P. Raja, Ethnomedicinal importance of *Rungia pectinata* (Linn.) Nees. Proceedings of National Seminar on Advances in Biological Sciences On 25th & 26th February, 2011 organized by the PG & Research Department of Botany, Holy Cross College, Tiruchirapalli.

International

1. Jeyachandran, R. and George, V.K. (1985). A relationship between mineral metabolism and enzyme activities in salt stressed *Vigna* leaves. Paper presented in the 13th International Congress of Biochemistry, Amsterdam, Netherlands.
2. Jeyachandran, R. and George, V.K. (1986). Exclusion of solutes and ions in germinating sunflower seeds under salt stress. Plant Nutrition Colloquium, Beltsville, USA.
3. Jeyachandran, R., Stephen, J. and George, V.K. (1987) chemostress induced biochemical changes in *Chara hispida* L. Proceedings of the International Symposium on Phycology, Madras.
4. Jeyachandran, R. and George, V.K. (1989). Responses of mung bean to soil salinity at various growth stages. Paper presented during XI International Plant Nutrition Colloquium, Washington, USA.
5. Jeyachandran, R. and George, V.K. (1993). Responses of mung bean to soil salinity at various growth stages. Paper presented in the XII International Plant Nutrition Colloquium Perth. Australia.
6. Jeyachandran, R., Francis Xavier, T. and Anand, S. P. (2003). *In vitro* bacterial screening of *Tinospora cordifolia* (Willd.) Hook. F & Thomson, A Folklore medicinal plant used by tribals in Eastern Ghats of Tamil Nadu - International Conference on Sustainable Development and Management of Natural Resources - Department of Botany, Holy Cross College, Tiruchirappalli - 15-17 Mar 2003.
7. Jeyachandran, R. and Cindrella, L. (2006). Nanotechnology-A Modern Science to bring huge Medicinal Benefit. International Conference "Biotechnology Promises and realities". P,S,G,R. Krishnammal College for Womens College.Coimbatore. July 14- 15.
8. Jeyachandran R, and Cindrella L. (2006). Biodiversity of Silent Valley and its Conservation Strategies, Proceedings of International Conference on Marine and

Terrene Ecology organized by Jesuit Tsunami Service, Tamilnadu, and St. Xavier's College (Autonomous), Palayamkottai, 17th – 20th January 2006.

9. Jeyachandran, R. and Mahesh, A. (2007). *Agrobacterium rhizogenes* (Strain No. 15834) induced gene transfer in *Oxystelma esculentum* (L.f) R. Br. International Conference On “Opportunities and Challenges in Biotechnology and Environmental Science”. Organized by Department of Botany. Vellalar College for Women. Erode. Feb 22-23.
10. Jeyachandran R, Cindrella L, Molecular Orbital and Linear Free energy approaches to QSAR of Gypenoside and its analogues, Paper presented at the 3rd Global summit on Medicinal and Aromatic Plants (GOSSMAP-3), Chiang Mai, Thailand, 21-24 November 2007, p.147.
11. Cindrella L and Jeyachandran R, Non-Platinum Metal oxide nano particles and nano clusters as oxygen reduction catalysts in fuel cells, Paper (Oral) presented at the European Nano Systems '07 (ENS '07), Paris, France, 3-4 December 2007, p.101- 106.
12. Jeyachandran R and Cindrella L, Quantitative Structure-activity relationship of substituted glucosylflavone and its analogues by molecular orbital and linear free energy approaches, Paper presented at the World conference on Medicinal and aromatic plants (WOCMAP IV), Cape Town, South Africa, 9-14 November 2008, p.104-105.
13. Jeyachandran R, Cindrella L and Mahesh Ayyavoo, Pharmacological evaluation of *Sphaeranthus indicus* Linn. using albino rats., Paper presented at the World conference on Medicinal and aromatic plants (WOCMAP IV), Cape Town, South Africa, 9-14 November 2008, p.85-86.
14. Padmavathy S, Jeyachandran R and Cindrella L, Ethnopharmacological importance of *Morinda citrifolia* L., Paper presented at the World conference on Medicinal and aromatic plants (WOCMAP IV), Cape Town, South Africa, 9-14 November 2008, p.16.
15. Baskaran X., and Jeyachandran R., Evaluation of antioxidant activity and their phytochemical analysis of *Pteris tripartita* Sw. a critically endangered fern from South India. Proceedings of 5th International Symposium on Asian Pteridology and garden show, 15- 21 November 2010, Shenzhen, China.

16. Jeyachandran R, Cindrella L, Structure-Activity relationship of Indicine N Oxide and its functional derivatives by Molecular Orbital evaluation and charge flow dynamics, Proceedings of the XVIII International Botanical Congress, Melbourne, Australia, 23 -30 July 2011.

H). Guest Lectures delivered:

- ‘Technology for the 21st Century’ - Department of Physics, Holy Cross College, Tiruchirappalli, S.INDIA. – 12th January 2000.
- ‘Recent trends in Biodiversity and Biotechnology’ – Department of Botany, S.R. College, Tiruchirappalli, S.INDIA.– 11th February 2000.
- ‘Biotransformation of high value Pharmaceuticals’ – Department of Chemistry, St. Joseph’s College, Tiruchirappalli, S.INDIA. – 21st February 2002.
- ‘Gene Transfer methods in plants’ – Department of Biochemistry, S.R. College, Tiruchirappalli, S.INDIA. – 18th February 2002.
- ‘GMO’s and Environment - Scientific Certainties and Uncertainties’ - Workshop on Advanced Techniques in Molecular Biology, Department of Biotechnology, J.J. College of Arts and Science, Pudukottai, S.INDIA. - 16th July 2002.
- Chairperson for a session on Biochemistry in National symposium on recent trends in Biosciences organized by the Dept. of Biology, Sri Paramakalyani College, Alwarkurichi, Tamil Nadu, Feb.27th –28th 2004.

Resource Person:

- Resource Person for workshop on ‘Advanced Biochemical Techniques and Tissue Culture’, organized by the Departments of Botany, Biochemistry and Biotechnology, St. Joseph’s College (Autonomous), Tiruchirappalli, S.INDIA, on 26th and 27th August 2003.
- Delivered a lecture on “Optimization of Degradative ability of Bacterial species to phenols” during National Seminar on Advancement in Biosciences (Biofest-03), conducted by SNMV College of Arts and Science, Coimbatore, S.INDIA, 3-4 October 2003.

- Resource Person for Two days workshop on “Plant tissue culture and Histochemistry”, organized by the Department of Botany, St. Joseph’s College, Tiruchirappalli, Sep. 16th and 17th, 2004.
- Chairperson for National symposium on ‘Sustainable utilization and Conservation of Medicinal Plants’ Organized by the Department of Plant Biology and Plant Biotechnology. Nirmala College for Women (Autonomous), Coimbatore. August 21-22, 2008.

I) Orientation Courses / Refresher Courses attended:

- Attended the Orientation Course for College teachers sponsored by the University Grants Commission, at the academic Staff College, Bharathidasan University, Tiruchirappalli, S.INDIA. during November 23rd to December 19, 1987.
- Attended the Refresher Course on ‘Environmental Remote Sensing’ at Bharathidasan University, Tiruchirappalli, S.INDIA. during 3-30 March 1994.
- Attended the Refresher Course on ‘Plant Cell, tissue and Organ Culture’ at Bharathidasan University, Tiruchirappalli, S.INDIA. during March 5 to April 1, 1996.

J). Research Guiding experiences:

i) M.Phil.

S.No.	Name	Title of M.Phil. Dissertation	Year
1	Augustin Gnanachezhian	Biochemical changes in diseased and normal leaves of <i>Solanum melongena</i> and <i>Datura metal</i>	1988
2	Arivalagan, T.	Biochemical changes in diseased and normal leaves of <i>Capsicum annuum</i> and <i>Datura metal</i>	1989
3	Kaliamoorthy, S.	Biochemical changes in diseased and normal leaves of <i>Coccinia indica</i> and <i>datura metal</i>	1990
4	Julia, S.	Pigment components in salt stressed seedlings of mung bean	1991

5	Selvarani, N.	Salinity-nitrate interaction on the uptake and translocation of certain minerals in cowpea and maize	1991
6	Mariamamma Varghese	Ameliorating role of uv-a and uv-b irradiated seedlings of cowpea and blackgram	1992
7	Saravanan, K.	Alleviating effect of NH ₄ NO ₃ on growth and mineral nutrients of salt stressed urdbean	1992
8	Madhu, R.	Additive effect of water stress on uv-b irradiated seedlings of mungbean	1993
9	Thanga Krishna Kumari	Influence of foliar application of mepiquat chloride on growth and pigment components of urd bean	1993
10	Francis Manuel, A.	Studies on the responses of maize to bioinoculants	1994
11	Catherine Hemalatha, A.	Bioconversion potential of <i>Capsicum frutescens</i> L. for the production of capsaicin	1994
13	Ravi Paul, S.	In vitro studies on wedelia calendulacea less nigella sativa linn.	1995
14	Vellankanni Arockiaraj	Effect of different mycorrhizal treatments on the growth performance and nutrient uptake in capsicum	1995
15	Marimuthupaul Raj, A.	Chromium induced morphological and biochemical changes in maize and sorghum	1996
16	Prem Kumar, A.	Callusing, somatic embryogenesis and organogenesis in cajanus cajan l.	1997
17	Anand, S.	Lethal effect of nickel on biochemical changes of vigna radiata l. wilczek and zea mays l.	1998
18	Kumar, A.	Micropropagation of cayratia pedata juss. an endangered species of south east asia.	1999
19	Muthumani, V.	Laccase mediated detoxification of pesticides	2000
20	Manju, A.	Evaluation of alternate carbon source for rhizobium	2001
21	Muralidharan, T.	Screening, isolation, identification, characterization and purification of protease from bacillus st	2002
22	Prema, K.	In vitro studies on premna latifolia roxb.	2003
23	Ranjiniganth, S.	In vitro studies on <i>anisochilus carnosus</i> wall.	2003
24	Munju, A.	Evaluation of alternate carbon source for Rhizobium	2004
25	Girija, J.	Strain evaluation through acetylene reduction test	2004

26	Ramesh, S.	In vitro regeneration of <i>Ocimum tenuiflorum</i> (L.) – an important medicinal herb	2004
27	Manjuparkavi, S.P.	Phytochemical and antimicrobial characterization on bioactive principles isolated from <i>Tribulus terrestris</i> (L.)	2004
28	Muthumani	Laccase mediated detoxification of pesticides	2004
29	Thangavel, P.	In vitro propagation and antimicrobial screening of <i>Enicostemma littorale</i> Blum.	2004
30	Anantha Bharathy, R.	In vitro micropropagation and antimicrobial screening of <i>Plumbago zeylanica</i> (L.)	2005
31	Sariba Begum, J.	A suitable protocol for the micropropagation and antimicrobial studies in <i>Aerva lanata</i> (L.)	2005
32	Muthuselvan	Antimicrobial screening, phytochemical analysis and in vitro studies on <i>Sphaeranthus indicus</i> L.	2005
33	Kavitha, K.	In vitro micropropagation of antibacterial and phytochemical studies on <i>Trichodesma indicum</i> (Linn) R.Br.	2006
34	Anderson, A.	The role of fibrinogen as a marker for cardio vascular disease in Type II Diabetic patients	2006
35	Sudha, A.	Antimicrobial activity and phytochemical studies on <i>Wrightia tinctoria</i> R.Br.	2006
36	Sindhu, K. K	Phytochemical and Antimicrobial Enumeration of <i>Indigofera aspalathoides</i> Vahl. Ex. Dc	2007
37	Sureshkumar, K	In Vitro Propagation and Antimicrobial Screening on <i>Ammania baccifera</i> (Linn.)	2007
38	Prudence Elizabeth Savielle	Evaluation of anticancerous property of leaf extract of <i>Anisomeles malabarica</i> (L.) R.Br on DEN induced albino mice	2007
39	Kamachi, P	Antidiabetic activity of <i>Kigelia africana</i> (Lam) in Alloxan induced albino mice	2007
40	Sree Vidya	Effect of root extract of <i>Operculina turpethum</i> (L.) Silva Manso. on Carbon Tetrachloride induced hepatotoxicity in albino mice	2007
41	Devi	In vitro regeneration and antibacterial screening of some medicinal plants	2009
42	Bastin	In vitro micropropagation and antimicrobial studies of <i>Crotalaria biflora</i>	2010
43	Kayalvizhi.R	Studies on saccharification and fermentation process for conversion of cellulosic biomass to bioethanol.	2011

44	Ruba Jennifer.D	A preliminary attempt to isolate the full length cellulose gene of termite by PCR	2011
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i) Ph.D.

S.No.	Name	Title of Ph.D. thesis	Field	Year
1	Francis Sathiyaseelan M.	In vitro culture studies on <i>Solanum surrattens burm f.</i>	Botany	2004
2	Anand, S. P.	Ethnobotanical, antimicrobial, phytochemical and tissue culture studies in <i>Zheneria scabra</i> L.f. sonder.	Botany	2007
3	Vasuki Devi, R.	Tissue Culture and transgenic approaches for the genetic improvement of cowpea (<i>Vigna unguiculate</i> (L.) Walp)	Biotechnology	2007
4	Mahesh, A.	Agrobacterium mediated gene transformation	Botany	2009
5	Karthik Mohan	Therapeutic effects of Glycosides	Biochemistry	Doing
6	Baskaran.X	Tissue culture and Pharmacology	Botany	Doing
7	Bastin	Micro propagation of endangered medicinal plants	Botany	Doing

15. Fellowship/Membership in the Scientific Organisation:

S.No.	Professional Body	Membership category
1	Biotechnology Society of India	Life Membership (LM 32)
2	Bioinformatics Institute of India	Life Membership (L 1264)
3	Swamy Botanical Club	Life Membership

16. Awards/Honours received:

Course	Year	Awards/Honours
I B.Sc. Botany	1978-79	I Rank with silver medal
II B.Sc. Botany	1979-80	I Rank with silver medal
III B.Sc. Botany	1980-81	I Rank with silver medal

III B.Sc. Botany	1980-81	Academic Excellence
B.Sc. Botany	1978-81	I Rank with Gold medal
I M.Sc. Botany	1981-82	Academic Excellence
II M.Sc. Botany	1982-83	I Rank with silver medal
M.Sc. Botany	1981-83	I Rank with silver medal
Ph.D.	1983-87	CSIR – Research Fellowship
The American Biographical Institute	2003	Honorary appointment to the Research Board of Advisors

Citation Index

S/No	Author name	Paper citations	Year of publications	Name of the Journal	Vol & Page No
1	S. P. Anand and R. Jeyachandran	<i>In vitro</i> Multiple Shoot Regeneration from Nodal Explants of <i>Zehneria scabra</i> (L.f.) Sonder - An Important Medicinal Climber	2004 (December)	Plant Tissue Cult.	14(2) : 101-106,
2	Kalidass Chinnamadasamy, Daniel Arjunan	Rapid Micropropagation of <i>Plumbago zeylanica</i> L. An Important Medicinal Plant	2010	Science 2010; 6 (10)	; 6 (10)
3	A. Daniel 1, C. Kalidass	<i>In vitro</i> multiple shoot induction through axillary bud of <i>Ocimum basilicum</i> L. an important medicinal plant	(2010)	International Journal of Biological Technology	1(1):24-28.
4	M. F. HASAN, R. DAS, M. S	Callus induction and plant regeneration from shoot tips of Chakunda (<i>cassia obtusifolia</i> l.)	(October 2008)	<i>Int. J. Sustain. Crop Prod.</i>	3(6):6-10
5	A. Biswas1, M. A. Bari	Clonal propagation through nodal explant culture of	2009 (June)	Plant Tissue Cult. &	9(1): 53-59,

		<i>Boerhaavia diffusa</i> l. - a rare medicinal plant		Biotech. 1	
6	V.J.E CAROLINE	High frequency <i>in vitro</i> Rhizogenesis in <i>bryonopsis laciniosa</i> (l.) naud. a highly valuable medicinal cucurbit	Jan/Mar- 2011	Internation al Journal of Pharma and Bio Sciences	Vol-1 /Issue-1
7	S. P. Anand1, R. Jeyachandran	NMR Spectral Analysis on Root Extract of <i>Zehneria scabra</i> - A Vital Medicinal Climber	2011	J. Pharm. Sci. & Res.	Vol.3(1), ,1015- 1018
8	Animesh Biswas1? M A Bari1	IN VITRO REGENERATION OF ARISTOLOCHIA TAGALA CHAMP. - A RARE MEDICINAL PLANT OF CHITTAGONG HILL TRACTS	2007	J. bio-sci.	15: 63- 67,
9	K.Sathyavani, T.Ramanathan	Effect of Plant growth regulators on Callus induction and Plantlet regeneration of Bitter Apple (<i>Citrullus colocynthis</i>) <i>from Stem</i>	2011	Asian Journal of Biotechnol ogy	3(3): 2246-256
10	Turgut Topal, Sukru Oter	Human being needs a revolution on diabetes therapy	2011	Journal of Experiment al and Integrative Medicine	1(3):173- 174
11	Gupta A.V.N, Rama Rao. Bandlamuri	Studies on anti-microbial activity of flower extracts of <i>Antigonon leptopus</i> against common dental pathogens	2011	Annals of Biological Research,	, 2 (2) : 99-103
12	ROBERT JEYACHAN DRAN* and AYYAVO MAHESH	<i>Agrobacterium rhizogenes</i> mediated hairy root induction in <i>Oxystelma esculentum</i> (L.f) R.Br.	2007	<i>Journal of Biological Research- Thessaloni ki</i>	8: 207 – 212,
13	G. O. Ajayi1*, J. A. Olagunju	Gas chromatography-mass spectrometry analysis and phytochemical screening of Ethanollic root extract of <i>Plumbago zeylanica</i> , Linn.	May, 2011	Journal of Medicinal Plants Research	Vol. 5(9), pp. 1756- 1761, 4
14	Mumtaz Jahan, Mohiuddin K. Warsi, Fehmeeda Khatoon	STUDIES ON ANTIBACTERIAL PROPERTY OF EUCALYPTUS - THE AROMATIC PLANT	March – April 2011; Article-015	Internation al Journal of Pharmaceut ical Sciences Review and Research	Volume 7, Issue 2,
15	Bhavna H.	ETHNOPHARMACOLOGICAL	March –	Internation	Volume

	Maryal*, S. B. Bothara ²	PROPERTIES OF <i>COCCULUS HIRSUTUS</i> (L.) DIELS- A REVIEW	April 2011; Article-022	al Journal of Pharmaceutical Sciences Review and Research	7, Issue 1,
16	R. Vijayalakshmi and R. Ranganathan	Antimicrobial activity of various extracts of whole plant of <i>Anisomeles malabarica</i> (Linn.) R. Br.	2011,	International Multidisciplinary Research Journal	1/2:15-19
17	Boobalan Raja* and Jeganathan Manivannan	Evaluation of <i>in vitro</i> antioxidant and antimicrobial potential of methanolic leaf extract of <i>Anisomeles malabarica</i> (Linn.)	2010	Journal of Pharmacy Research	3(7),1471-1474
18	Olatunji A. Gabriell	Comprehensive scientific demystification of <i>Kigelia africana</i> : A review	September, 2009	African Journal of Pure and Applied Chemistry	Vol. 3 (9), pp. 158-164,
19	Atika Chandra and Deepak Pental	Regeneration and genetic transformation of grain legumes: An overview	FEBRUARY 2003	CURRENT SCIENCE,	VOL. 84, NO. 3, 10
20	M.Jain and H.C.Chaduvadi	<i>In vitro</i> cloning of <i>Cajanus cajan</i> Var. <i>Bahar</i> through prolific shoot bud differentiation in leaf segment and production of fertile plant	April -2004	Indian Journal of Biotechnology	Vol-3 Pp: 258-262
21	Saleem Khan ¹ , Mehboob	<i>In vitro</i> micro-propagation of indigenous chick pea (<i>Cicer arietinum</i> L.) cultivars, KK-1 and Hassan-2K	November, 2010	African Journal of Agricultural Research	Vol. 5(21), pp. 2934-2938, 4
22	M. Prabhakaran, S. Elumalai*	High Frequency Induction of Callus from Seedling Explants of Pigeonpea (<i>Cajanus cajan</i> [L] Millsp.) for Genetic Transformation	2011,	<i>Current Botany</i>	2(6): 15-17
23	SHAGUFTA NAZ, AAMIR	Multiple shoot formation from different explants of chick pea (<i>cicer arietinum</i> l.)	2007.	<i>Pak. J. Bot.</i> ,	39(6): 2067-2073,
24	KIRAN K. SHARMA	Agrobacterium-mediated production of transgenic pigeonpea (<i>cajanus cajan</i> l. millsp.) expressing the synthetic bt	March–April 2006	In Vitro Cell. Dev. Biol.—	42:165–173,

		crylab gene		Plant	
25	AYEPOLA O.O AND B.A. ADENIYI	The Antibacterial Activity of Leaf Extracts of <i>Eucalyptus camaldulensis</i> (Myrtaceae)	2008	Journal of Applied Sciences Research,	4(11): 1410- 1413,
26	T. Panda	Preliminary Study of Ethno-Medicinal Plants Used to Cure Different Diseases in Coastal District of Orissa, India	2010	British Journal of Pharmacol ogy and Toxicology	1(2): 67- 71,
27	Ayepola, O.O and R.O. Ishola	Evaluation of Antimicrobial Activity of <i>Anacardium occidentale</i> (Linn.)	2009	Advances in Medical and Dental Sciences,	3(1): 1-3,
28	S.Kumar and V.Kumar	Pharmacological Evaluation of Fractioned Extracts of <i>Callistemon Lanceolatus</i> for Antidiabetic and Hypolipidemic activities in Diabetic Rats	2011	Journal of Pharmacy and Allied Health Sciences	--
29	R. Jeyachandran, A. Mahesh,	Antibacterial activity of Plumbagin and root extracts of <i>plumbago zeylanica</i> l.	2009	<i>ACTA BIOLOGIC A CRACOVI ENSIA Series Botanica</i>	51/1: 17- 22,
