

CURRICULUM VITAE



Name : Dr. RAJINIKANTH MARKA

Father's Name : Sahadev

Mother's Name : Sarojana

Date of Birth : 19th June, 1985

Designation : Assistant Professor (Part time)

Department of Biotechnology

Kakatiya University

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Telangana, India.

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ACADEMIC QUALIFICATIONS

SI. No	Course	Board/University	Year	Marks %
01	Ph.D	Department of Biotechnology,	April,	-
	Biotechnology	Kakatiya University, Warangal	2017	
02	M. Sc	Dr. B. R. Ambedkar Open University,	Dec,	70.83
	Botany	Hyderabad.	2014	
03	B. Ed	Dr Zakir Hussain Memorial College of	Aug/Sep,	62.57
	(Biological Science)	Teacher Education, Warangal	2011	
04	M. Sc	University College of Kakatiya	Mar/Apr,	84.50
	Biotechnology	University, Warangal	2009	
05	B. Sc (Biotechnology,	Chaitanya Degree & P.G College,	March,	75.61
	Botany, Chemistry)	Kakatiya University, Warangal.	2007	
06	Intermediate	Swamy Vivekananda Junior College,	March,	77.10

	(10+2) (Bi. P. C)	Parkal.	2003	
07	S.S.C	Z.P.S.S Rayaparthy, Parkal.	March,	74.66
			2001	

Teaching Experience: 9 years

Teaching:

- ❖ Faculty to teach Under Graduate (B.Sc-Biotech) Students of CKM Degree and PG College, Warangal for 1 year (2010 − 2011).
- Faculty to teach Post Graduate (M.Sc-Biotech) Students of University College, Kakatiya University from 2016 to till-to-date.

Research experience: 10 years

Publications: 21

No. of articles published in National Research Journals : **08**

No. of articles published in International Research Journals : 13

Publications:

- 1. Ghan Singh Malothu, **Rajinikanth Marka** and Rama Swamy Nanna (2021). High efficiency direct in vitro regeneration from different explants of medicinal plant turkey berry (*Solanum torvum* Sw). *International Research Journal of Plant Science*, **12(5)**: 1-8.
- 2. Ghan Singh Malothu, **Rajinikanth Marka** and Rama Swamy Nanna (2021). Effect of plant growth regulators on somatic embryogenesis and plantlet development of turkey berry (*Solanum torvum* SW). *European Journal of Medicinal Plants*, **32(7):**1-8.
- 3. **Rajiniaknth Marka** and Rama Swamy Nanna (2020). Expression of *Tcchitinase-I* gene in transgenic peanut (*Arachis hypogaea* L.) confers enhanced resistance against leaf spot and rust diseases. *Plant growth regulation*, **93**:53-63.
- 4. **Rajinikanth Marka** and Rama Swamy Nanna (2020). Factors affecting *Agrobacterium*-mediated genetic transformation in groundnut (*Arachis hypogaea* L.). *Asian Journal of Microbiology, Biotechnology and Environmental Sciences*, **22(1):**63-70.

- 5. **Rajinikanth Marka** and Rama Swamy Nanna (2018). Optimization of factors affecting *Agrobacterium*-mediated genetic transformation in groundnut (*Arachis hypogaea* L.). *Advancers in Plants & Agriculture Research,* **8(3):**275-282.
- 6. Mahitha Banala, **Rajinikanth Marka**, Archana Pamulaparthi and Rama Swamy Nanna, (2016). *In vitro* direct regenaration through cotyledon in pigean pea (*Cajanus cajan* (L.) Millsp and evaluation of genetic fidelity using RAPD markers. *Vegetos-an International Journal of Plant Research*, **29(4)**:1-5.
- 7. Fatemeh Soghra Younesikelaki, Mohammad Hadi Ebrahimzadeh, Mehdi Kiani Desfardi, Mahitha Banala, **Rajinikanth Marka** and Rama Swamy Nanna (2016). Optimization of seed surface sterilization method and *in vitro* seed germination in *Althaea officinalis* (L.)-an importent medicinal herb. *Indian journal of Science and Technology*, **9(28):**1-6.
- 8. M. Rambabu, D. Ujjwala, **M. Rajinikanth** and N. Rama Swamy (2016). Microropagation through nodal culture of an economically important forest tree species *Gmelina arborea* Roxb. *International journal of Science and Research (IJSR)*, 5 (4):2098-2101.
- 9. Mohammad Hadi Ebrahimzadeh, Fatemeh Soghra Younesikelaki, **Rajinikanth Marka**, Srikanth Kagithoju and Rama Swamy Nanna (2015). Optimization of Seed Surface Sterilization Technique and *In vitro* Seed Germination of Medicinally Important Herb-Silybum marianum (L.) Gaertn. *Indian Journal of Natural Sciences*, **5(30)**:6575-6583.
- B. Mahitha, P. Archana, MD. H. Ebrahimzadeh, K. Srikanth, M. Rajinikanth and N. Rama Swamy (2015). *In vitro* antioxidant and pharmacognostic studies of leaf extracts of *Cajanus cajan* (L.) mills. *Indian Journal of Pharmaceutical Sciences*, 77(2):170-177.
- 11. **Rajinikanth Marka**, Mahitha Banala and Rama Swamy Nanna (2015). Influence of silver nitrate on leaflet based direct regeneration in *Arachis hypogaea* L. *Vegetos- an International Journal of Plant Research*, **28(1)**: 63-69.
- 12. Srinivas Penchala, Samatha Talari, Shyamsundara Chary Rudroju, **Rajinikanth Marka** and Rama Swamy Nanna (2015). *In vitro* rapid multiplication of *Wrightia tomentosa* (roxb.) roem. and schultz an endangered medicinal tree species. *International Research Journal of Biological Sciences*. **4**(3):1-5.
- 13. **Rajinikanth Marka,** Mohammad hadi Ebrahimzadeh, Archana Kurra, Archana Pamulaparthi and Rama Swamy Nanna **(2014).** *In vitro* direct organogenesis and plantlet

- formation from de-embryonated cotyledon explants of peanut (*Arachis hypogaea* L.) *International Journal of Pharma and Bio Sciences.* **5**(3)(B):481-490.
- 14. Kurra Archana, Pamulaparthi Archana, **Marka Rajinikanth** and Nanna Rama Swamy **(2014).** *In vitro* multiple shoot induction and plantlet formation from cotyledon and hypocotyl explants in tomato. *Research Journal of Biotechnology*. 9(1):78-83.
- 15. **Rajinikanth Marka**, Samatha Talari, Srinivas Penchala, Shyamsundarachary Rudroju and Rama Swamy Nanna **(2013)**. Preliminary phytochemical analysis of leaf, stem, root and seed extracts of *Arachis hypogaea* L. *International Journal of Pharmaceutical Sciences Review and Research*. **20**(1):134-139.
- 16. **Rajinikanth Marka**, Srinivas Penchala, Samatha Talari, Srikanth Kagithoju and Rama Swamy Nanna **(2013)**. *In vitro* multiplication potential of cotyledonary node explants in Peanut (*Arachis hypogaea* L.). *International Journal of Agricultural Science and Research (IJASR)*. **3**(1):189-196.
- 17. Samatha Talari, Srinivas Penchala, Shyamsundarachary Rudroju, **Rajinikanth Marka**, and Nanna Rama Swamy **(2013).** Embryo culture an efficient tool for conservation of an endangered medicinally important forest tree *Oroxylum indicum* L. Kurz, *International Journal of Bio-Technology and Research (IJBTR)*. **3**(2):45-52.
- 18. Srikanth Kagithoju, Vikram Godishala, Archana Pamulaparthi, **Rajinikanth Marka** and Rama Swamy Nanna **(2013).** Pharmacognostic and phytochemical investigations in *Strychnos potatorum*. Linn. F. *Journal of Pharmacognosy and Phytochemistry*. 2(4): 46-51.
- 19. Samatha Talari, Srinivas Penchala, Shyamsundara Chary Rudroju, **Rajinikanth Marka**, and Nanna Rama Swamy **(2012).** Phytochemical analysis of seeds, stem bark and root of an endangered medicinal forest tree *Oroxylum indicum* (L) kurz. *International Journal of Pharma and Bio Sciences*. **3**(3):1063-1075.
- 20. Srinivas Penchala, Samatha Talari, Shyamsundara Chary Rudroju, Rajinikanth Marka, and Nanna Rama Swamy (2012). Factors affecting germination and seedling growth of an endangered forest tree Wrightia tomentosa (Roxb.) Roem. & Schult. Through in vitro zygotic embryo culture. Journal of Cell Tissue Research. 12(3):3377-3382.

21. Shyamsundarachary Rudroju, Samatha Talari, **Rajinikanth Marka**, Srinivas Penchala and Nanna Rama Swamy **(2012).** Phytochemical Analysis of *Trichosanthes Cucumerina* L. *Indo American Journal of Pharmaceutical Research*. **3**(4):3359-3372.

No. of Books published/Authored: 01

Books published/Authored

Rajiniaknth Marka and Rama Swamy Nanna (2020). Transgenic approach for crop improvement in groundnutpeanut (Wondernut/Poor Man's cashewnut). ISBN: 978-93-88672-69-6, SARA Book publications, Ahmedabad (UGC Approved publishers).

Conferences and Seminars attended

- National Symposia / Conferences / Workshops attended and presented the research
 papers: 08
- International Symposia / Conferences / Workshops attended and presented the research papers: 05

International Symposia/Conferences/ Workshops

- International Symposium on Biodiversity of Medicinal Plants & Orchids: Emerging
 Trends and Challenges organized by Department of Botany and Microbiology, Acharya
 Nagarjuna University, Gunture-522 510 (A.P), India. From 9th to 11th February, 2018.
- International Conference on Emerging Biotechnologies organized by Department of Biotechnology, Kakatiya University, Warangal, TS, India. From 28th to 30th January, 2016.

Abstracts:

- Rajinikanth Marka, Archana Kurra and Rama Swamy Nanna. Agrobacterium mediated genetic transformation using cotyledon explants in groundnut (Arachis hypogaea L.) cv ICG 13942. Abstact No. APB-54, Pg.No:65
- Archana Kurra, Rajinikanth Marka, Madhusudhan Kairamkonda, Mahhitha Banala, Shama Nazrin and Rama Swamy Nanna. Assessment of Genetic Diversity of tomato Cultivars Using RAPD Markers. Abstract No: APB-03, Pg.No:34.

- K. Srikanth, G. Vikram, K. Madhusudhan, M. Rajinikanth, B. Mahitha, Shama Nazrin and Rama Swamy Nanna. Rapid in vitro clonal propagation of Strychnos potatoum using shoot tip culture. Abstract No: APB-14, Pg.No:41.
- Mahitha Banala, Rajinikanth Marka, Archana Kurra, Shama Nazrin and Rama Swamy Nanna. *In vitro* direct regeneration through cotyledon culture in Pigeon pea. Abstract No: APB-27, Pg.No:48.
- Shama Nazrin, Srikanth Kagithoju, Rajinikanth Marka, Archana Kurra, Archana Pamulaparthi, Mahitha Banala, Saikrishna Porandla and Rama Swamy Nanna. Establishment of RAPD markers for characterization of naïve and hybrid chicken varieties. Abstract No: APB-67, Pg.No:72.
- 3. International Conference on Biotechnology in Human Welfare organized by Department of Biotechnology, Kakatiya University, Warangal-506009(A.P) India. From 7th to 9th February, 2013.

Abstracts:

- Rajinikanth Marka, Samatha Talari, Shyamsundarachary Rudroju, Mohammad Hadi Ebrahimzadeh and Rama Swamy Nanna. Phytochemical analysis of leaf, stem, root and seed extracts with different solvents of *Arachis hypogaea* L.
 Abstract No: PMB-29, Pg.No:125.
- Rudroju Shyamsundarachary, Talari Samatha, Penchala Srinivas, Rajinikanth
 Marka and Nanna Rama Swamy. Phytochemical and TLC analysis of
 Trichosanthes cucumerina. L. Abstract No: PMB-02, Pg.No:110.
- Srinivas Penchala, Samatha Talari, Shyamsundarachary Rudroju, Rajinikanth
 Marka and Rama Swamy Nanna. Evaluation of Antioxidant activity of various solvent extracts of different parts of Wrightia tomentosa an endangered medicinal tree through DPPH assay. Abstract No: PMB-37, Pg.No:129.
- Mohammad Hadi Ebrahimzadeh, Srikanth Kagithoju, Archana Pamulaparthi,
 Rajinikanth Marka and RamaSwamy Nanna. Isolation of therapeutically important bioactive compounds from callus cultures in Siybum marianum.
 Abstract No: PMB-26, Pg.No:124.

4. International Conference on Biotechnology- A Global Scenario organized by Department of Biotechnology, Kakatiya University, Warangal-506009(A.P) India. From 2nd to 4th November-2010.

Abstract:

- T. Samatha, K. Himabindhu, R.S.S.Chary, M. Rajinikanth and N. Ramaswamy. In vitro propagation in an endangered and medicinally important tree species
 Oroxylum indicum (L) Kurtz. Abstract No: PB-98, Pg.No:148.
- 5. International Conference on Plant Biotechnology and Molecular Biology organized by Department of Biotechnology, Kakatiya University, Warangal-506009(A.P) India. From 15th to 17th August 2008.

National Symposia/Conferences/ Workshops

- National conference on Innovative approaches for conservation of plant diversity organized by Department of Botany, Kakatiya University, Warangal, TS, India. From 9th & 10th March, 2018.
- 2. National symposium on plant biotechnology-Recent trends in plant propagation, genetic improvement & industrial applications organized by Arid forest research institute, Indian council of forest research & education, Dehradun, Jodhpur, India. From 16th to 18th February 2018.

Abstract:

- Ramaswamy Nanna and **Rajinikanth Marka.** Engineering fungal resistance in groundnut (*Arachis hypogaea. L*). **Pg. No. 136.**
- National conference on Frontiers of plant research-prospects and challenges organized by Department of Botany, Kakatiya University, Warangal, TS, India. From 9th & 10th March, 2017.

Abstract:

Rajinikanth Marka and Rama Swamy Nanna. Optimization of Agrobacterium –
mediated genetic transformation in groundnut (Arachis hypogaea L.). Abstract
No: AB-03, Pg.No:34.

4. National Seminar on OMICS Technologies for Better Food and Nutrition organized by Department of Biotechnology, Telangana University, Nizamabad, TS, India. On 25th February, 2016.

Abstract:

- Rajinikanth Marka and Rama Swamy Nanna. Effect of factors on *Agrobacterium* mediated genetic transformation in groundnut (*Arachis hypogaea* L.). **Pg.No: 69.**
- National conference on plant diversity: Challenges in conservation and sustainable utilization organized by Department of Botany, Kakatiya University, Warangal, TS, India.
 From 4th to 6th February, 2016.

Abstracts:

- Rajinikanth Marka, Mahitha Banala and Rama Swamy Nanna. Agrobacterium-mediated genetic transformation using leaflet explants in groundnut (Arachis hypogaea L.) cv 7827. Abstract No: AB-32, Pg.No:106-107.
- K. Srikanth, G. Vikram, K. Madhusudhan, M. Rajinikanth, B. Mahitha, Shama Nazrin and Rama Swamy Nanna. Establishment of cell suspension culture in Srychnos potatorum for production of secondary metabolite. Abstract No: AB-41, Pg.No:113.
- 6. National conference on Emerging Research Trends in plant Sciences in 21st Century organized by Department of Botany, Kakatiya University, Warangal, TS, India. From 12th to 13th February, 2013.
- 7. National Seminar on Biotechnology in Life Sciences Current Trends and Developments organized by Department of Zoology Kakatiya Government Degree & P.G College Hanamkonda-506001, Warangal Dist. TS. From 18th & 19th July, 2009.
- 8. National Conference on Frontiers in Bioinformatics and Biotechnology organized by Department of Biotechnology, Kakatiya University, Warangal-506009, TS, India. From 3rd &4th January, 2008.

Workshops attended

 Science Academies Lecture Workshop on "Uses of Recombinant DNA Technology in Modern Health Care" organized by Department of Zoology, Kakatiya University, Warangal-506009(A.P) India. From 30th November & 1st December, 2012.