CURRICULUM VITAE

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PROFESSIONAL SUMMARY

Diligent and motivated Biotechnology researcher committed to perform research in an environment that fosters ingenuity and creativity. Possesses knowledge of molecular biology, plant tissue culture and microbiological techniques and have experience as Research Coordinator in Agro based company in planning, implementing and coordinating research scientists.

ACADEMIC QUALIFICATIONS				
Degree	**University/Organization**	**Year**	**Subjects**	**Percentage**
Ph.D	GITAM (Deemed to be University)	2017-2022	Plant Molecular Biology	Awarded
M.Sc.	Andhra University	2005-2007	Agricultural Biotechnology	73 %
B.Sc.	Aditya degree college for women	2002-2005	Biotechnology, Biochemistry, Human Genetics	77 %
Post Graduate Diploma	Centre for Distance and Virtual Learning, University of Hyderabad	2014	Intellectual Property Regime, IP Informatics, Technology Management	71 %
Online Course on Intellectual Property Rights	The Confederation of Indian Industry (CII)	2011	Intellectual Property Rights (IPR)	--

WORK EXPERIENCE

Project Associate **February 2022 – Present**

- Maintenance of the equipments
- Assisting students in their project works
- Writing project proposals

Research Coordinator **April 2010 - September 2011**

- Coordination for collection of the data from the experimental station and reporting the experimental results.
- Establishing the laboratories.
- Procurement of chemicals & consumables, equipments and maintaining the inventory.
- Preparation of the patent applications.
- Coordination with the patent offices and patent attorneys.
- Preparation of Promotional material like Leaflets, Brochures, Posters and product manuals.

Ph.D THESIS

My research aim during my doctoral thesis is to generate insect and disease resistant transgenic pigeonpea which is an important approach of the Integrated Pest Management program that mitigates the use of pesticides.

TITLE OF THE THESIS: "Over-expression of *Tfgd2- RsAFP2* fusion gene confers enhanced insect and disease resistance in transgenic pigeonpea"

RESEARCH EXPERIENCE	
MOLECULAR BIOLOGY	Isolation of DNA & RNA, Genomic and Plasmid DNA isolation, cloning, *Agrobacterium* mediated transformation, GUS analysis, Agarose Gel Electrophoresis, Polyacrylamide Gel Electrophoresis, PCR, RT-PCR, Southern hybridization, Insect and disease resistance analysis
PLANT TISSUE CULTURE	Micropropagation, Somatic embryogenesis, Organogenesis, Development of transgenic plants
MICROBIOLOGY	Isolation and Maintenance of Microbial cultures, Submerged and solid state fermentation, Antibiotic and microbiological assays, strain improvement,

	immobilization
BIOCHEMISTRY	Electrophoresis, Chromatography and Spectrophotometry. Determination of RNA, protein, nucleic acid, phosphate and others

HONORS & AWARDS
Received JRF fellowship by DST-SERB project entitled "Generation of disease and insect resistant transgenic pigeonpea by over-expression of *Tfgd2-RsAFP2* fusion gene in the Department of Biotechnology, GITAM Institute of Technology, GITAM University, Visakhapatnam from 17/12/2015 to 19/03/2018.
Best Oral Presentation Award in an International Conference on Fungal Biotechnology: Recent Trends and Future Prospectives – (FBRTFP -2020) organized by Department of Biotechnology, Bannari Amman Institute of Technology Sathyamangalam, Tamilnadu on 11th and 12th December 2020

RESEARCH PUBLICATIONS

1. Nirmala, Nalluri., Vasavi Rama Karri. Over-expression of Trigonella foenum-graecum defensin (*Tfgd2*) and Raphanus sativus antifungal protein (*RsAFP2*) in transgenic pigeonpea confers resistance to the *Helicoverpa. armigera*. (In press)

2. Naga Sai Anitha Nidumolu., Vasavi Rama Karri., Nirmala Nalluri. Differential activity of vermicompost and plant growth regulators (GA3 and IAA) on yield and growth parameters of Zingiber officinale Rosc (Accepted) (Journal name: Asia-Pacific Journal of Science and Technology).

3. Nirmala, Nalluri., Vasavi Rama Karri., 2019. *In vitro* Regeneration of ICP 8863 Pigeonpea (*Cajanus cajan* (L.) Millsp.) Variety using Leaf Petiole and Cotyledonary Node Explants and Assessment of their Genetic Stability by RAPD Analysis. Indian Journal of Science and Technology. 12(9), (1-10). doi:10.17485/ijst/2019/v12i9/140847.

4. Nirmala, Nalluri., Vasavi Rama Karri., 2017. Efficient shoot induction and plant regeneration of pigeonpea [*Cajanus cajan* (l.) Millisp.] ICPL 87 variety using leaf petiole explants. International journal of applied biology and pharmaceutical technology. 8(4), 30-35.

5. Nalluri, N., Karri, V. R. 2020. Recent advances in genetic manipulation of crops: A promising approach to address the global food and industrial applications. Plant Science Today, 7(1), 70–92. https://doi.org/10.14719/pst.2020.7.1.659.

6. Nirmala Nalluri, Vasavi Rama Karri. 2018. Use of ground nut shell compost as a natural fertilizer for the cultivation of vegetable plants. International Journal of Advance Research in Science and Engineering. 7(1): 97-104.
7. Vasavi Rama Karri and Nirmala Nalluri. 2017. Pigeon pea (*Cajanus cajan* L.) By-products as potent natural resource to produce protein rich edible food products. International Journal of current Agricultural Sciences. 7(7): 229-236

8. Karri, V. R. and N. Nalluri. 2016. Cassava: meeting the global protein need. Plant Science Today 3(3): 304-311. http://dx.doi.org/10.14719/pst.2016.3.3.249

BOOK CHAPTERS

1. N. Nalluri and V. R. Karri. 2021. Grain legumes and their By-products: As a nutrient rich feed supplement for sustainable intensification of commercial poultry industry. P. Guleria et al. (eds.), Sustainable Agriculture Reviews 51, Sustainable Agriculture Reviews 51, Springer, ISBN 978-3-030-68827-1. https://doi.org/10.1007/978-3-030-68828-8_3

2. Vasavi Rama Karri and Nirmala Nalluri. 2019. Plant Antimicrobial Proteins: An Emerging Agents to Meet the Challenges in Agricultural and Medical Biotechnology. Advanced Botany, Volume-2, AkiNik Publications Publications. ISBN: 978-93-5335-408-4

3. Vasavi Rama Karri and Nirmala Nalluri. Scoping the Use of Transgenic Microorganisms as a Potential Biofertilizers for Sustainable Agriculture and Environmental Safety (In Press).

RESEARCH PAPERS PRESENTED AT INTERNATIONAL & NATIONAL CONFERENCES AND WORKSHOPS ATTENDED

1. Participated in Two Days International Webinar on Biodiversity of Fungi, Department of Botany, Dr. Babasaheb Ambedkar College of Arts, Commerce & Science, Mahad-Raigad 22nd & 23rd March 2021.

2. Nirmala Nalluri and Vasavi Rama. Oral presentation on “Expression of *Tfgd2-RSAFP2* fusion gene in transgenic pigeonpea (*Cajanus cajan* L.) confers resistance to *Helicoverpa. armigera*” at the International Conference on Fungal Biotechnology: Recent Trends and Future Prospectives (FBRTFP -2020) organized by Department of Biotechnology, Bannari Amman Institute of Technology Sathyamangalam, Tamilnadu, 11th & 12th December 2020.

3. Nirmala Nalluri. Poster presentation on “Impact of Vermicompost and phytohormones on the growth and yield of Tomato (*Solanum Lycopersicum* L.)” at the National seminar on Recent Trends in Plant Disease Diagnosis and Control With Reference To Central India", Department of Microbiology & Alumni Association Kakatiya University Warangal, Telangana, 1st & 2nd December, 2018.

4. Participated in the National Workshop on “Role of IPR in Innovation Management and Academia-Industry Collaboration”, Andhra University, Visakhapatnam, organized by National Research Development Corporation, New Delhi, 15th December, 2018.

5. Attended National workshop on “Advanced Technologies for Biomolecule Separations”, Department of Chemical Engineering, Andhra University, Visakhapatnam, 16th & 17th February, 2018.

6. Nirmala Nalluri and Vasavi Rama Karri. Poster presentation on “Utilization of groundnut shell waste as an effective natural fertilizer for the growth of vegetable plants” at the Third AP Science Congress held at Andhra University, Visakhapatnam, 7-9 November, 2017.

7. Participated in International Conference on APBIO 2017, GITAM University, Visakhapatnam, 10th & 11th August, 2017.

8. Participated in the International Workshop on “Innovative & Sustainable Wastewater Treatment” organized by A.U. College of Engineering, Andhra University, Visakhapatnam, 25th & 26th February, 2016.

9. Participated in Seminar on “Interventions of Biotechnology in Cancer Research”, Dept.pof Biotechnology, GITAM Institute of Technology, GITAM University, Visakhapatnam, 29th Dec, 2015.

DECLARATION

I hereby declare that above information is correct to the best of my knowledge and belief.

Place: Visakhapatnam NIRMALA NALLURI