

Name of Faculty **Dr. G Vijaya Laxmi**
 Designation Assistant Professor
 Nature of Job/Appointment Regular

Date of Joining 10-11-2008

E-mail drgv laxmi_biotech@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Genetics) OU	Awarded
PG	M. Tech. (Biotechnology) & M.Sc.(Botany,Cytogenetics)	Distinction First
UG	B. Sc. (with Biology and Chemistry)	Distinction

Work Experience	
Teaching	24 Years (Exclusive)
Research	08 years (Post-doctoral / Research Associate))
Industry	--
Others	

Area of Specialization Medicinal Plant Biotechnology

Professional Memberships	1. Life member: The Indian Science Congress Association Mem.No. L24123(April-2014)
	2. Life Associate Member All India Biotech Association Southern Chapter
	3. Life member IWSAH December 2019

Responsibilities held at Institution Level	1. Faculty Co-ordinator Chaitanya Suraksha - women safety club of CBIT (9-12-21 onwards) organized various programs till date.
	2. Department Alumni- coordinator 2021 onwards
	3. Convener-NAAC Green Audit: Plantation committee 2021-till date
	4. Member, Internal Complaints Committee, CBIT
	5. R&D Committee member from 08-01-2012 to 28-6-2017.
	6. Member, Sports committee, Shruthi 2018-2020
	7. Member, Finance committee, Sudhee-Shruthi 2022,2023.
	8. Mentor for 1 st year BTech students, Induction program.
	9. Member IQAC, CBIT.
	10. Member, NIRF-innovation achievement criteria

Responsibilities held at Department Level	1. Member Board of Studies, Biotechnology , from 2013-till date
	2. Department NBA co-ordinator (Jan 2019-till date)
	3. Member, Course Expert Group and PAC Biotechnology
	4. Class Teacher for VII and VIII sem BTech (Biotechnology)
	5. Mentor BTech Biotech students

	<ol style="list-style-type: none"> 6. Department Alumni –Co-ordinator 7. Organized industrial visit to Telangana state Medicinal Plants Board, Hyderabad every year. 8. Department Co-coordinator NAAC (2010-12), 9. Department Coordinator ISO 9001:2000, (2009-2019). 10. Department Coordinator TEQIP II, (2010-2015) 11. Project Co-coordinator, Final year BTech Biotech (June2009-June2019, 2024, 2025)
Research Guidance	1. MTech Biotechnology (JNTUH 2011)
Awards Received	<ol style="list-style-type: none"> 1. Awarded with Rashtriya Shiksha Ratan award with medal, on 7th Dec 2018, by National Achievers Recognition Forum, New Delhi. 2. Pre-eminent Researcher National Award 2022 for excellence in Research and Publications. By Chennai Teacher's Council, Poonmallee, Tamilnadu. 3. Awarded "Telangana Best Teacher Award 2024 on 24th September 2024, in honor of Savitribhai Phule, the first lady teacher of India, Constituted by Prof. Dr Amrutha Rao Educational Society,
Courses Handled at Under Graduate.	Plant Biotechnology, Tissue culture Lab, Tissue engineering, Intellectual Property Rights, Regulatory Affairs and Clinical Trials, Genetics (Theory and Lab), Molecular Biology, Genetic Engineering and rDNA Technology (Theory and lab), Biochemistry, Immunology (Lab) Basics of Biology (for mathematic students), IPR and bioethics, Food Biotechnology Environmental Science, Cell and Molecular Biology.
No. of Papers Published	National Journals – 02 International Journals – 8 National Conference – 1 International Conference – 9
Projects Carried out	<ol style="list-style-type: none"> 1. UGC SERO-MRP. "Studies on enhancement of secondary metabolites in <i>in vitro</i> through hairy roots and immobilized cell suspensions in medicinally important plant <i>Achyranthes aspera</i> "proposal number 3672 with financial assistance of Rs 140 000/- (April 2018-April2020) 2. Principal Investigator in a DBT funded project (2004) on "Survey Collection, Identification and nutritional assessment of lesser known edible plant resources of major tribes of A.P" for 38.08 Lakhs No. BT / PR4639 / NDB / 51 /038 /2004. 3. UGC-PTRAW- New Delhi, UGC Part-time Research Associate for Women (1999-2003) "Production of homozygous lines through anther culture for transfer of disease resistance" 15-117/98(PTRA_W_S/SA-I)
Patents	<ol style="list-style-type: none"> 1. Swellable Hydrogel Films, Incorporated With Quaternary Ammonium Compounds Appl No: 202341034437, Inventors: Dr. Dharmalingam K, 2. Rajasri Yadavalli, 3. G. Vijaya Laxmi, 4. Kiran YellappaVajanthri Date of publ: Dt: 30/06/2023; journal number: 26/2023

2. Nonsteroidal anti-inflammatory drug (NSAD) loaded hydrogel films Application no. 202441094199A
Inventors : 1. Koodalingam Dharmalingam, 2. Yadavalli Rajasri, 3. Govindugari Vijaya Laxmi, 4. Vajanthri kiran Yellappa, 5. Cheruku Venkata sai Aishwarya, 6. Mokkapati Vaishnavi, 7. Naik Kansoth Abhishek. Publ date:13-12-2024. ; Journal no. 50/2024

Technology Transfer

Invited Speaker

1. Invited speaker : at **International conference** on Trends in plant sciences and agrobiotechnology and 40th Meeting of Plant Tissue Culture Association-India (PTCA-I), on "In Vitro studies in Purple vegetables", February 14-16, 2019, at Indian Institute of Technology Guwahati, Assam, India

2. Invited to Chair a session at **International conference**: : 3rd ICEM 2017 at JNTU, Hyderabad on 29th November 2017

1. Naga SriVarsha, Tanmayi Boreda, Sanjana Reddy Pailla, Yashvi Kambampati, Gaurav T, Rajasri Yadavalli, **G Vijaya Laxmi**, Spoorthi Nadimpalli, and C Nagendranatha Reddy. (2025). Nanotechnology and microbes: Revolutionising water management. IN: Nano-microbiology for sustainable Development. PP 293-329.Springer Nature.
2. Mahima Kalyanam, Kirthikha Shanmuga Sunder, Bishwambhar Mishra, Mautushi Das, Harisankar Dey & **Vijaya Laxmi Govindugari**. (2025). Algal-Mediated Nanoparticle Synthesis for Environmental Sustainability IN : Nano-microbiology for sustainable Development pp 53-69. Springer Nature

No. of Books/Chapter Published with details

3. **Govindugari Vijaya Laxmi** and K Dharmalingam. (2024) The In Vitro Protocols for Micropropagation of Catharanthus roseus (L.) G. Don; Chapter 29, PG 170-187 : Bentham Science Publishers Pte .Ltd
DOI: [10.2174/9789815238303124020012](https://doi.org/10.2174/9789815238303124020012)
4. Balraj Sudha, Kanagaraj Suganya, Bishwambhar Mishra, **Govindugari Vijaya Laxmi**, Sanjeeb Kumar Mandal, Sanjay Kumar and Sundaravadivelu Sumathi. (2023) "Frontiers in Antimicrobial Agents" : In Recent Advances in the Application of Marine Natural Products as Antimicrobial Agents: Chapter 8: : Bentham Science Publishers Pte Ltd, edited by Ravi A V , Srinivasan R, Kannapan A (October 2023)
DOI: [10.2174/9789815080148123030011](https://doi.org/10.2174/9789815080148123030011) ISBN :978-981-5080-14-8 (online)
5. C.C.Giri and **G.Vijaya Laxmi** (2007) *In vitro* regeneration, genetic transformation and biotechnological applications to grain legumes :

an assessment . In : **Biotechnology in crop improvement** ,ed. P C Trivedi. Pointer Publishers.,India pg: 21-73 .ISBN.No. 978-81-7132-494-1.

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (**Attended and/or Organized**).

Short term training courses completed (STTP)

1. Attended a Two –week **Faculty development program** (online) on **Transforming Education : Integrating OBE and NEP 2020** from 22nd July to -2nd August 2024 org. by Dept. ECE, CVR college of engineering, Ranga Reddy district, Telangana.
2. Attended a workshop on “ Biosecurity for Laboratories working with Toxins : A Train –the – trainer program organized by **Health Security Partners, USA** and FABA, during 29-31st of July 2024
3. National level one week Faculty Development Programme on “National Education Policy 2020- Challenges in implementation in Higher education” Organised by Department of EEE, IT and Physics, Chaitanya Bharathi Institute of Technology Hyderabad in association with IEEE education society student Branch Chapter , CBIT and IEEE Young professionals from 18-23 March 2024.
4. Biosecurity workshop for researchers working with Plant Toxins and their source material organized by Health security partners and FABA Hyderabad, 7th and 8th February, 2024.
5. Five-day short term course on” 2D Nanomaterials : Potential and Applications through ICT during 17-21 October, 2022, organized by Applied Science Department, NITTTR, MoE, Govt. India.
6. DNA finger Printing online workshop organised by Truth Labs, Genome Foudation and FABA, 26-28 November 2021.
7. Attended 3-day AICTE workshop on AICTE examination reforms -during 26-28 July, 2021 organized by Chitkara university
8. Five day hands on training E workshop on Use of Animation increating virtual lab for Bioscience, by Atmiya University, 25-29 August, 2020.
9. One week online National level FDP on Cyber Security, organized by Department of MCA, CBIT(A) and Department of CSE, MGIT in association with Supraja technologies during 7-2 july 2020

NPTEL/COURSERA courses completed :

- 1) NPTEL AICTE FDP on Basics of Crop Breeding and Plant Biotechnology (12 weeks , Jan-April 2025) **Elite**
- 2) NPTEL AICTE FDP on Soil Fertility and Fertilizers (12 weeks, Jul-Oct 2024)
- 3) NPTEL Machine Learning for Soil and Crop Management 12 weeks, Jan-April 2024

- 4) NPTEL course on Organic Farming for sustainable Agricultural Production 12 weeks, Jul-Sep 2023 (73%)
- 5) NPTEL - on Tissue Engineering NPTEL Jul-Sep-2-2023(64%)
- 6) NPTEL – 1.5 FDP- 12 week course On Food Microbiology and Food Safety cec22-ag01 (78%marks) August 2022.
- 7) NPTEL- 1.5 FDP course for 12 weeks, Learning Analytics tools -AICTE-NPTEL, July-Oct-2021
- 8) Swayam online certificate course -4 credit course, Principles of Genetics , Aug-Nov 2021.
- 9) An online non-credit course authorized by Tel Aviv University and offered through Coursera on “Understanding plants - Part II Fundamentals of Plant Biology” (4 weeks) on 23.5.2020
- 10) Coursera :Curanderismo: Traditional Healing Using Plants an online non-credit course authorized by University of New Mexico 25.5.2020(5weeks)
- 11) Coursera: Design Thinking for the Greater Good: Innovation in the Social Sector an online non-credit course authorized by University of Virginia (5 weeks) 28.6.2020
- 12) NPTEL NATE 12 weeks Course with an internal assessment score of 100% in June 2020
- 13) NPTEL 8 weeks Course on Cell culture Technologies “ with an internal assessment score of 83% in June 2020

**Faculty development programs /seminars workshops
Coordinated (2017 onwards)**

1. **Convenor**, Five Day STTP on “ Essentials of Regulatory Affairs in Biosimilars Development : Bench to Market Perspective , organized by Dept, Biotechnology, during 3-7th June 2025.
2. **Co-Chaired** 2nd International conference on Biotechnology and Interdisciplinary Technologies ICBIT2024 held during 13-14 December 2024 at CBIT, Hyderabad
3. **Co-ordinator**: one week online Faculty development programme on “ Current Science and developments in Nano biotechnology organized by Department of Biotechnology and BBCC during 29th Jan to 2nd Feb 2024.
4. **Convenor** Five day Value added course – (Hands on workshop) on “Basic Techniques in Biotechnology” during 28th November to 02 December 2022, Organised by Department of Biotechnology, Chaitanya Bharathi Institute of Technology.
5. **Organized as a co-chair-** a session on Agricultural Engineering and Plant Biotechnology from 8-12 November, 2021 in “International Conference on

Interdisciplinary Technologies” iCBIT-2021.org by Biotechnology, CBIT 9th November 2021.

6. **Organized a session on Biotechnicia** : a School children interaction event on Biotechnology for Beginners from Beginning on 12-11-2021 in in “International Conference on Interdisciplinary Technologies” iCBIT-2021.org by Biotechnology, iCBIT-2021org by Biotechnology, Chaitanya Bharathi Institute of Technology on 9th November 2021
7. **Organizing member:** one week Refresher course on “Bharateeya Chaitanyam” organised by CBIT, Hyderabad 29. 06.2020 to 05.07.2020
8. **Co-ordinated One Week Webinar** cum Faculty Development Program Series on “Current Progress and Future Prospects of Biotechnology”, organised by the Department of Biotechnology, CBIT in association with Andhra Pradesh Akademi of Sciences from 8th to 13th June, 2020.
9. **Co-ordinator, “Neozion2017”**, Organised by Dept. Biotechnology, CBIT during 15-16th September, 2017

Workshops and conferences attended (2017 onwards)

1. Govindugari Vijaya Laxmi and Aishwarya National Conference : Oral paper presentation Development of Hydrogel -based organic fertilizer for sustainable agriculture. : " National conference on Recent Trends In Biotechnology Research" org by Arunai Engineering college ,Thiruvannamalai during 22 march 2024.
2. **Govindugari Vijaya Laxmi^{1*}**, Kamasani Aarya Sree, Kruthiventi Chandana, Shilpa Chakra. Effect of ZnO nanoparticles synthesized from different plant extracts on growth of Oryza sativa L. Chapter 2 In Proceedings of “International conference on Advances in plant sciences for sustainable future” (ICAPSSF), 7-9 February, 2024.Organised by Department of Botany, Osmania University, Hyderabad. DnyanPath Publication, India. ISBN 978-81-19435-77-7.
3. Alekhya Pasumarthy and **G Vijaya Laxmi**. 2023. Road to sustainability : Piezoelectric materials as efficient tools for energy harvesting, at 6th International conference on Bioenergy Arunai Engineering college, Thiruvannamalai, TN, India (**Best Paper Award**) 18-20 Oct 2023,
4. Online Webinar on Journey across Genome, 4th August 2022, org. by FABA.
5. Attended Webinar on “Industrial and Environmental Biotechnology Biomass to Biofuels” 10th Feb 2022
6. Attended the online workshop entitled Biologics & Biosimilars: Upstream & Downstream technologies from 10th to 18th July 2021 organized by FABA and others.

7. International webinar on Structural biology and study of biomolecules at atomic level org. by Dr. Ketan Patel, Jacobs School of Medicine & Biomedical Sciences, University of Buffalo, NY, USA PP Savani university, 10th July 2020.
8. Seminar on Employability post covid 19 ERA expectations of Industry v/s education system preparedness. By Assochem, India, 10th July 2020
9. Attended BodhiTree and SAFE Tools for Effective Online Teaching: A Hands-On Workshop and the interaction session and successfully completed both pre and post workshop online activities, involving 3 days of video lectures and hands-on work. organised by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India on 21st June 2020
10. One day International Webinar on “Flexible Energy Storage Devices” Jointly organized by Centre for Nano Science and Technology, IST, JNTU Hyderabad and Dayalbagh Educational Institute, Agra on 20th June 2020 under DST SERB and TEQIP III: Mentoring/Twinning system
11. Attended Five days hands on workshop on “Patent Searching, Drafting and Filing” (online mode) from 29-05-2020 to 02-06-2020 organized by Panimal Institute of Technology, Tamilnadu in association with Turnip Innovations and Exilyze Intellectual Services, IEEE Computer Society & Computer Society of India.
12. Attended One week Faculty Development Program on “Outcome based Education and NBA Accreditation Process (UG) from 28-5-2020 to 1. 6.2020. organized by Chaitanya Bharathi Institute of Technology (A), Hyderabad.
13. Attended the interaction session and successfully completed both pre and post workshop online activities, involving 3 days of video lectures and hands-on work on 24 May, 2020. The training was organized by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India.
14. Attended One Week Online Faculty Development Program On “Outcome Based Education: A Step Towards Excellence” Organized By Government Engineering College, Karad, Maharashtra, From 11-15 May 2020 Under Margdarshan Scheme Of AICTE, New Delhi.
15. Participated and Received Certificate in the IIC online Sessions Conducted by Institution’s Innovation Council (IIC) of MHRD’s Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and start-ups among HEIs from 28th April to 22nd May 2020 during COVID-19 nationwide Lockdown

16. One day webinar on Intellectual Property Rights and Patenting” organised by Startcore Technologies Hyderabad on 10.4.2020
17. Attended a Two day Symposium on “Biomedical Innovations and small Business Opportunities” organized by Sri Venkateshwara Institute Medical Sciences 9SVIMS), Thirupathi, Sugan Life Sciences Pvt.Ltd, FABA, Hyderabad during January 22-23, 2020 at SVIMS, Thirupathi. Andhra Pradesh.
18. Attended XIV Triennial National conference on IWSA on “Women led science, Technology and Innovation” held from 11-3 December, 2019 organized by Indian Women Scientists’ Association (IWSA) Hyderabad Branch, at ICMR-National Institute of Nutrition, Hyderabad, Telangana
19. Attended a 2 Day Rural immersion training program on “Swachhta Action Plan and community Engagement at CBIT, Hyderabad, organized by Mahatma Gandhi National Council of Rural Education (MGNCRE) during November 14-15, 2019
20. Attended 1 week short term training programme through ICT mode on NBA Accreditation. Org by National Institute of Technical Teachers Training and Research (NITTR) Kolkata. Estb. By Ministry of Human resource Development. India. 22-26 April, 2019
21. Attended 5 day workshop on “Advanced techniques in microbial systematics” at Microbial type culture collection and gene bank (MTCC), IMTECH, Chandigarh. 26-30th November 2018.

Details of Journal Publications/
Conferences (National and
International)

1. **Govindugari Vijaya Laxmi**, Sowmya Golla, Deepak Mohan Reddy S, Alisha Chunduri, Lakshmayya NSV, Jahanavi M, Vishwanutha Samshabad, Mounica Bandela, Vidyani Suryadevara (2023) Thwarting Alzheimer’s Disease through Healthy Lifestyle Habits: Hope for the Future. *Neurology international*, 15, 162–187. <https://doi.org/10.3390/neurolint15010013>
2. PV Parvati Sai Arun, Vineetha Yarlagaadda, **Govindugari Vijaya Laxmi** and Sumithra Salla (2020) “Computational Analysis of the Hypothetical Protein P9303_05031 From Marine Cyanobacterium Prochlorococcus Marinus MIT 9303”. *J Integr Bioinform. Volume 17 Issue 1*, pp. 1-9 Publisher De Gruyter(Scopus) UGC No. 30242 (journal no; 14180 serial no) Impact factor 3.32
3. Vijaya Laxmi Govindugari, P Srinivas Reddy. D Madhavi Latha and A Sandeep Reddy. (2019) “Effect of *Bacillus subtilis* on concrete with steel fibers and fly ash” *International Journal of Engineering Trends and Technology Volume 67 Issue 7* pp. 5-10 (Scopus 2020 cite score -0.2) Doi: 10.14445/22315381/IJETT-V67I7P202: ISSN: 2231-5381
4. Vidyani Suryadevara and **Vijaya Laxmi Govindugari**, (2015). Exosomes and microparticles: The nanosized vesicles released from the cells that act as biomarkers for disease and treatment – riveting on lung diseases. *Materials Today: Proceedings 2 : volume 2 (9) 4626 – 4631* journal ISSN :2214-7853 DOI [10.1016/j.matpr.2015.10.083](https://doi.org/10.1016/j.matpr.2015.10.083) (Elsevier, Impact factor 1.46).(UGC REF.NO 25346)

5. Mani Kumar P, Pardhu G, Shruti Ravinder, **Vijaya Lakshmi G**, Tejaswini K & Vishwanath Pradeep B. (2011) Phytochemical Screening antimicrobial & AntiProliferative studies of *Rhododendron ponticum* on Prostrate epithelial cells. Journal of Pharmaceutical sciences and Research.:3 (11)1552-1555. (UGC REF.NO22219) ISSN: 0975-1459
6. **G Vijaya Laxmi** and C.C.Giri (2003). Plant regeneration via organogenesis from shoot base derived callus of *Arachis stenosperma* and *A.villosa*. Current Sci. 85:1624-1629.(impact factor 0.7) UGC REF.NO 40 : Issn 0011-3891(Current Science Association in collaboration with the Indian Academy of Sciences (India)
7. **G.Vijaya Laxmi** and C.C.Giri (2003). Rapid *in vitro* multiplication and establishment of plants using five wild species of *Arachis*. J. Genet. Breed. 57:213-218. UGC REF.NO.20712.; ISSN 0394-9257(Experimental Institute for Cereal Research, Italy)
8. C.C.Giri and **G.Vijaya Laxmi** (2000) Production of transgenic rice with agronomically useful genes: an assessment. Biotechnology Advances.(Elsevier r) 18: 653-683. (impact factor 6.2) UGC REF.NO 5180. ISSN: 0734-9750
9. **G.Vijaya Laxmi** and G.M.Reddy (1997) Plant regeneration from protoplasts of indica rice cv. Tellahamsa. Proceedings B: Indian National Science Academy. B63 No. 6: 631-638. UGC REF.NO 30381
10. **G.Vijaya Laxmi** and G.M.Reddy (1997) Anther culture of indica rice : Technical improvement in callus induction and green plant regeneration. Journal of Genetics and Breeding. 51: 295-301. UGC REF.NO 20712 ; ISSN 0394-9257(Experimental Institute for Cereal Research, Italy)

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