

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 19 Years (Exclusive)  
 Research 08 years (Post-doctoral / Research Associate))  
 Industry --  
 Others

Area of Specialization Medicinal Plant Biotechnology

- Professional Memberships
- Life member: The Indian Science Congress Association Mem.No. L24123(April-2014)
  - Life Associate Member All India Biotech Association Southern Chapter
  - Life member IWSAH December 2019
- Responsibilities held at Institution Level
- Co-ordinated to conduct International Women's in CBIT as Chaitanya Suraksha women safety club, Breaking the Bias. 8<sup>th</sup> March, 2022
  - As Faculty Coordinator Chaitanya Suraksha - women safety club of CBIT organized " National Girl Child Day" In CBIT under " Azadi ka Amrit Mahotsav on 24th Jan 2022
  - Faculty coordinator Women safety club of CBIT-Chaitanya Suraksha (9-12-21 onwards)
  - Department Alumni- coordinator 2021
  - Convener-NAAC Green Audit: Plantation committee 2021-till date
  - Member, Internal Complaints Committee, CBIT
  - R&D Committee member from 08-01-2012 to 28-6-2017.
  - Member, Sports committee, Shruthi 2018-2020
  - Member, Finance committee, Sudhee-Shruthi 2022,2023.
  - Mentor for 1<sup>st</sup> year BTech students, Induction program.

- Responsibilities held at Department Level
- Member Board of Studies, Biotechnology, from 2013-till date
  - Department NBA coordinator (Jan 2019-till date)
  - Member, Course Expert Group and PAC Biotechnology
  - Class Teacher for VII and VIII sem BTech (Biotechnology)
  - Mentor BTech Biotech students
  - Organized industrial visit to Telangana state Medicinal Plants Board, Hyderabad on 23-11-2021
  - Department Co-coordinator NAAC (2010-12),
  - Department Coordinator ISO 9001:2000, (2009-2019).
  - Department Coordinator TEQIP II, (2010-2015)
  - Project Co-coordinator, Final year BTech Biotech (June2009-June2019)

- Internal examiner for R20 Community engagement, engineering exploration.

Research Guidance

MTech Biotechnology (JNTUH 2011)

Awards Received

- Awarded with Rashtriya Shiksha Ratan award with medal, on 7<sup>th</sup> Dec 2018, by National Achievers Recognition Forum, New Delhi.
- Pre-eminent Researcher National Award 2022 for excellence in Research and Publications. By Chennai Teacher's Council, Poonmallee, Tamilnadu.

Courses Handled at Under Graduate.

Tissue engineering, Plant Biotechnology, Tissue culture Lab, 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

No. of Papers Published

National Journals – 02      International Journals – 08  
National Conference – 01      International Conference – 09

Projects Carried out

- UGC SERO-MRP. "Studies on enhancement of secondary metabolites in in vitro through hairy roots and immobilized cell suspensions in medicinally important plant *Achyranthes aspera* "proposal number 3672 with financial assistance of Rs 140 000/- (April 2018-April2020)
- 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.
- 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

One –awaited in the process of application

Technology Transfer

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Invited Speaker

- 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
- Invited to Chair a session at **International conference** : 3<sup>rd</sup> ICEM 2017 at JNTU, Hyderabad on 29<sup>th</sup> November 2017

No. of Books/Chapter Published with details

- Govindugari Vijaya Laxmi and K Dharmalingam. (2022) The In Vitro Protocols for Micropropagation of *Catharanthus roseus* (L.) G. Don; Chapter 30 Bentham Science Publishers Pte .Ltd (Accepted for publication/in press)
- Balraj Sudha, Kanagaraj Suganya, Bishwambhar Mishra, Govindugari Vijaya Laxmi, Sanjeeb Kumar Mandal, Sanjay Kumar and Sundaravadivelu Sumathi. (2022) A Recent Update on Sponge Bioprospecting and its Antimicrobial Properties: Their Biological Mode of Action : Chapter 8: In Recent advances in the applications of marine natural products as antimicrobial agents : Bentham Science Publishers Pte .Ltd (in press)
- Published One Chapter - *In vitro* regeneration, genetic transformation and biotechnological applications to grain

legumes: an assessment. In: Biotechnology in crop improvement., (2007) ed. PC Trivedi. Pointer Publishers., India pp: 21-73 .ISBN.No. 978-81-7132-494-1.

#### **Short term training courses completed (STTP)**

1. 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.
2. DNA finger Printing online workshop organised by Truth Labs, Genome Foudation and FABA, 26-28 November 2021.
3. Five day hands on training E workshop on Use of Animation increasing virtual lab for Bioscience, by Atmiya University, 25-29 August, 2020.
4. 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
5. Attended 3-day AICTE workshop on AICTE examination reforms -during 26-28 July, 2021 organized by Chitkara university.

#### **NPTEL/COURSERA courses completed :**

1. NPTEL – 1.5 FDP- 12 week course On Food Microbiology and Food Safety cec22-ag01 (78%marks) August 2022.
2. NPTEL- 1.5 FDP course for 12 weeks, Learning Analytics tools -AICTE-NPTEL, July-Oct-2021
3. Swayam online certificate course -4 credit course, Principles of Genetics , Aug-Nov 2021.
4. 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
5. Coursera :Curanderismo: Traditional Healing Using Plants an online non-credit course authorized by University of New Mexico 25.5.2020(5weeks)
6. 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
7. NPTEL NATE 12 weeks Course with an internal assessment score of 100% in June 2020
8. 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 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.
2. 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.
3. 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

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

4. Organizing member: one week Refresher course on "Bharateeya Chaitanyam" organised by CBIT, Hyderabad 29. 06.2020 to 05.07.2020
5. 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 13<sup>th</sup> June, 2020.
6. Co-ordinator, "Neozion 2017", Organised by Dept. Biotechnology, CBIT during 15-16th September, 2017.

#### **Workshops and conferences attended (2017 onwards)**

1. Online Webinar on Journey across Genome, 4<sup>th</sup> August 2022, org. by FABA.
2. Attended Webinar on "Industrial and Environmental Biotechnology Biomass to Biofuels" 10<sup>th</sup> Feb 2022
3. Attended the online workshop entitled Biologics & Biosimilars: Upstream & Downstream technologies from 10<sup>th</sup> to 18<sup>th</sup> July 2021 organized by FABA and others.
4. 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, 10<sup>th</sup> July 2020.
5. Seminar on Employability post covid 19 ERA expectations of Industry v/s education system preparedness. By Assochem, India, 10<sup>th</sup> July 2020
6. 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 (PMMMNTT), MHRD, Govt. of India on 21<sup>st</sup> June 2020
7. 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 20<sup>th</sup> June 2020 under DST SERB and TEQIP III: Mentoring/Twinning system
8. Two day online Webseries on "Biomedical Imaging", organized by the Department of Computer Science & Engineering, Keshav Memorial Institute of Technology, Hyderabad, Telangana on 16<sup>th</sup> & 17<sup>th</sup> June 2020.
9. 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.
10. 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.
11. 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 (PMMMNTT), MHRD, Govt. of India.
12. 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.

13. 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
14. One day webinar on Intellectual Property Rights and Patenting" organised by Startcore Technologies Hyderabad on 10.4.2020
15. Attended a Two day Symposium on "Biomedical Innovations and small Business Opportunities" organized by Sri Venkateshwara Institute Medical Sciences 9SVIMS), Thirupathi, Sugen Life Sciences Pvt.Ltd, FABA, Hyderabad during January 22-23, 2020 at SVIMS, Thirupathi. Andhra Pradesh.
16. 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
17. 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
18. 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
19. Attended 5 day workshop on "Advanced techniques in microbial systematics" at Microbial type culture collection and gene bank (MTCC), IMTECH, Chandigarh. 26-30<sup>th</sup> November 2018.
20. Attended 3 day International workshop on "Biomaterials, Cellular and Molecular Theranostics" org. by Centre for Biomaterials, Cellular and Molecular Theranostics (CBCMT), VIT University, Vellore, from 18-20 January, 2017.

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 Yarlagadda , 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 (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.NO 22219) 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)

