# FORMAT FOR DETAILS OF INDIVIDUAL TEACHERS ACHARYA NAGARJUNA UNIVERSITY

- 1. Name : Prof. Kokkanti Mallikarjuna
- 2. Designation : Professor
- 3. Department : Botany and Microbiology
- 5. Qualifications : M.Sc., PhD.
- 6. Date of Birth : 05-02-1975
- 7. Date of Joining : 17-10-2006
- 8. Phones: (off):\_\_\_\_ (Cell): 9866402962
- 9. Email ID : mallikarjunaanu@gmail.com

:

:

10. Academic Qualifications: I worked as RA at Tata Institute of Fundamental Research

(TIFR), Mumbai and at National Institute of Plant Genome Research (NIPGR), New Delhi.

### 11. Title of Ph.D. Thesis

Title of Thesis	University from which	Awarded
	PhDs awarded	Year
Studies on micropropagation of Holarrhena	SV University,	2004
antidysenterica Wall- an important medicinal plant.	Tirupathi.	

### 12. Professional Career:

- Teaching Experience: 17 years
- Administrative Experience: 02 years as coordinator of ANU-TOCIC center.
- Research Experience: 19 years.

### 13. Academic Activities

### **Research Interests**

- Understanding the mechanism and regulation of CO<sub>2</sub>-concentrating mechanism in *Chlamydomonas reinhardtii*.
- *In vitro* propagation, phytochemical and pharmacological screening of rare, endangered and endemic medicinal and mangrove plants.
- Enumeration and validation of ancient ayurvedic information enshrined in palm-leaf manuscript.
- Generation and characterization of high CO<sub>2</sub>requiring plants; and transgenic plants against stress.
- Isolation and characterization of marine, and fresh water algae, bacteria, fungi and actinobacteria for novel biological activities and molecules.

# **Reviewer for International Journals**

- Journal of Ethnopharmacology
- Journal of Biosciences

- 3Biotech
- Physiology and Molecular Biology of Plants
- Plant Cell Biotechnology and Molecular Biology
- Pharmaceutical Biology
- Forestry and Ecology
- International Journal of Pharma and Biosciences
- Journal of Medicinal Plants Research
- Universal Journal of Plant Sciences
- Journal of Medical Education and Training

# Awards and Fellowships:

- **First prize with certificate of merit** for publishing paper in International Journal, Plant Molecular Biology by ANU Vice-Chancellor on the occasion of 38<sup>th</sup> Foundation-day, 11<sup>th</sup> Sept, 2014.
- Visiting Scientist Fellowship Award 2019 (VSP 2019) from Indian National Science

Academy (INSA), Government of India for working at Bhabha Atomic Research

Center (BARC), Mumbai.

# 14. Research Students Information (Awarded):

Guided Successfully Pre		Presently G	Presently Guiding	
Ph.D	M.Phil/M.Tech	Ph.D	M.Phil/M.Tech	
12	03	08	NIL	

### **15. Professional Achievements:**

### Workshop, FDP and Symposium organized (04)

- As Convener organized National workshop on "Regulatory Mechanisms, Transgenic Technology and Applications in Plants (RMTTAP)" in collaboration with Indian Institute for Science Education and Research (IISER), Tirupati on 2<sup>nd</sup> and 3<sup>rd</sup> of August, 2018 at Acharya Nagarjuna University, Guntur, Andhra Pradesh, India.
- A Special issue was published by Indian Academy of Sciences, Bangalore, J Biosciences as "Genetic Intervention in Plants: Mechanisms and Benefits" on the above RMTTAP Workshop.https://www.ias.ac.in/listing/articles/jbsc/045/00/Genetic%20Intervention%20in %20Plants:%20Mechanisms%20and%20Benefits.
- As a Director, organized an International Webinar-cum-Symposium on "Plant Developmental Plasticity: A Molecular Perspective(PDPAMP-2021)"in collaboration with Indian Institute for Science Education and Research (IISER), Tirupati from 27.09.2021 to 29.09.2021 at Acharya Nagarjuna University, Guntur, Andhra Pradesh, India.
- As Director, organized a "National Faculty Developmental Program on Innovations and IPRs" in collaboration with CSIR-IMMT of Bhubaneswar from December 6<sup>th</sup> to 12<sup>th</sup>, 2021.
- As a Director and Co-coordinator of DSIR-TOCIC of ANU, organized a Webinar on "Government of India PRISM (Promoting Innovations in Individuals, Startups,

# and MSMEs) programme and the role of ANU-TOCIC in supporting innovations" on 12-12-2020.

### **Invited lectures**

- As a resource person of Refresher Course, gave talk on "The Role of MADS-box genes in flower development and evolution" on 29<sup>th</sup> August 2022 at UGC-HRDC of Guru Ghasidas Vishwavidyalaya (Central University of Chhattisgarh), Bilaspur, through online mode.
- Delivered a talk on "Molecular Architecture of Plant Flower Development" at RC on Environmental Sciences at UGC-HRDC of SV University, Tirupathi on 28-10.2021.
- As a resource person gave lecture on MADS Box genes: Molecular Architects of Flower Development at UGC-HRDC of Guru Ghasidas Vishwavidyalaya (Central University of Chhattisgarh), Bilaspur, Refresher Course: Winter School on Novel Insights in Life Sciences Research on 18th Feb, 2021.
- Delivered invited lecture on **Molecular Biology-Molecular Basis of Inheritance** in connection with orientation programme conducted by department of intermediate education to Andhra Pradesh government junior lecturers on 23-9-2015 at MAR convention hall, Guntur.
- Delivered a talk (Webinar) on MADS BOX and Flowers to Government Degree and PG College Lectures on 22<sup>nd</sup> July, 2020.

#### Academic achievements

- Research collaboration: International Center for Genetic Engineering and Biotechnology, New Delhi for developing transgenic rice against abiotic stress.
- **Research collaboration:** Central Drug Research Institute, Luckow for developing sustainable technologies to antidiabetic drug development (DBT project).
- **Research collaboration:** Mumbai based Bhabha Atomic Research Center (BARC) for developing high CO<sub>2</sub> requiring plants.
- MOU with National Institute of Technology (NIT), Durgapur, India: for working on on *Arabidopsis* project.
- MOU with AgriBiotech Foundation and TriMurti Plant Sciences of Hyderabad, India for working on breeding, biotechnology and genetic engineering of agricultural crops.
- Established MOU with University Kelanthan, Malaysia for developing drugs from microbes and plants.
- Established MOU with **CSIR IMMT**, **Bhubaneswar for R&D collaborations** with ANU.

### Administrative achievements:

### Instrumental in establishing ANU center for Innovation and IPRs.

As DSIR-TOCIC coordinator, **established MOUs with 5 industries and 15 big local colleges** to popularize the need of innovations and IPRs.

Published wall posters and hand pamphlets on TOCIC center activities.

Conducted 'National Webinar on Government of India PRISM Program (Promoting Innovations in Individuals, Startups and MSMEs)'.

Organized one weak long 'National Faculty Development Program on Innovations and IPRs' in collaboration with CSIR IMMT, Bhubaneswar.

As chairperson of BOS, prepared syllabus for newly inducted PG Vocational M.Sc course (Horticulture and Landscape Gardening).

### 16. No. of books published : 01; Book Chapters 03.

# 17. No. of research articles published/presented since the inception:

Journals		Conferences		
National	International	National	International	
05	40	15	10	

### 18. Details Major/Minor Research Projects held/holding:

Title and Sanction Order	Date of	Major/Minor	Amount in
Particulars	Project	and Funding	Lakhs
	Sanctioned	Agency	
Unraveling the regulation of Carbonic Anhydrase-3, an essential component of Carbon dioxide Concentration Mechanism in <i>Chlamydomonas</i> . No. 38(1429)/17/EMR-II, dated 25-05-2017.	25-05-2017.	CSIR, New Delhi.	30,00000
<i>In vitro</i> propagation and conservation, antimicrobial screening and genetic diversity analysis of a critically endangered medicinal plant, <i>Strychnos</i> <i>wallichiana</i> Steud Ex DC. No.SB/FT/LS-287/2012, Dated 02- 05-2013.	02-05-2013	DST-SERB SERB Young Scientist Project	2,092,000.
<i>In vitro</i> propagation and conservation, antimicrobial screening and genetic diversity analysis of an endangered mangrove medicinal plant, <i>Xylocarpus granatum</i> . No.42-949/2013 (SR), Dated 14-03-2013.	14-03-2013	UGC-MRP	305,000

**19. Research Collaboration with the faculty of foreign Universities:** I have worked in collaboration with UCSI University of Malaysia and published two papers. Presently, I am working in collaboration with Universiti Malaysia Kelantan (UMK) after establishing MOU.

20. Visiting/ Adjunct/ Guest Faculty of other Universities: ------

20. Patents: ----

### 21. Professional Memberships:

- Life Member, Indian Botanical Society, Bareilly, India
- Life Member, Medicinal and Aromatic Plants Association of India,
- Member, Directorate of Medicinal and Aromatic Plants Research-ICAR, Gujarat, India
- Member, Society for Plant Biochemistry and Biotechnology (NRC on Plant Biotechnology) IARI, New Delhi, India
- Life Member, Association for the Promotion of DNA Fingerprinting and other DNA Technologies (ADNAT), CCMB, Hyderabad, India
- Member, Indian Society for Developmental Biologists, India
- Associate Fellow, Andhra Pradesh Akademy of Sciences, Hyderabad, India
- Member editorial board, Horizon research publishing corporation USA, Universal Journal of Plant Sciences, India
- Member, The Science Advisory Board, Arlington, USA.

# 22. Academic Council/ BOS/Other Committee Members:

Presently, I am working as a Chairman, Board of Studies in M.Sc Botany, M.Sc Microbiology and M.Sc Horticulture and Landscape Gardening (Voc). I am involved in lot of administrative and academic committees related to ANU.

Signature of the Teacher