



Dr. Madhamanchi Pradeep, M. Sc, JRF-NET, Ph. D
STATE BEST TEACHER AWARDEE-2022

Senior Lecturer &
Head-Centre for Applied Sciences
Government Degree College for Men-Srikakulam
Andhra Pradesh-532001

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Cell: 8555911961

URL: <https://gcmsklm.ac.in/staff.php?course=62>

AREAS OF INTEREST

Neurobiology and Neurodegenerative Diseases, Glycobiology,
Plant Stress Biology, Frugal Science Technology & Molecular Cloning & Bioprocess Engineering

EDUCATION

Degree	Institute	Year	Subject/Area	Remarks
Ph. D	Department of Biotechnology, Dr. B. R. Ambedkar University-Srikakulam, Andhra Pradesh	Apr 2024	Neuroscience Research (Focuson Epilepsy)	Admission got through A.P. State Research CET-2018
Masters	Department of Biotechnology, Punjabi University-Patiala, Punjab	2008-2010	Biotechnology	Admission Through All India Entrance Exam JNU CEEB- 2008 & M. Sc passed with 72%
Bachelors	Sri Venkateswara University, Tirupati, Andhra Pradesh	2004-2007	B. Sc with Biotechnology, Botany & Chemistry	B. Sc passed with 84%
Inter (10+2)	Santiniketan Junior College-Nellore, A. P	2002-2004	Biology, Chemistry & Physics	Passed with 90%
SSC (10 th)	Viswam High School- Kaluvoya, A. P	2001-2002	Natural Science, Physical Science, Social Studies, Mathematics, Hindi & English	Passed with 85%
JRF-NET	CSIR-UGC JOINT TEST FOR JRF & NET	2009	LIFE SCIENCES	AIR-254

MHRD	Unnat Bharat Abhiyan	20	01 Lakh	1500
AIM at C-CAMP	IPR & Entrepreneurship	02	01 Lakh	400
Ministry of Youth Affairs	NSS Regular Activities	35	1.85 Lakhs	3456
	NSS Special Camps	04		
SERB/ANRF AV Events	01 Karyashala, 01 Vritika & 04 Seminars	06	17.5 Lakhs	~1000
ICAR	National Seminar	01	2.5 Lakhs	~ 400

**Total No. of Events = 121; #Amount mobilized = Rs. 120.35 Lakhs; ! No. of Beneficiaries = ~25000*

CONSULTANCY PROJECT & MOUs

- ✓ In associates with the Academy Trust-Bangalore (tAcT) and its financial I have been conducting VIGYAN JIGNASA events to motivate more and more students to take-up the science as a career option
- ✓ As Convener of Institution Innovation Council (IIC) I have been promoting IPR and Entrepreneurship awareness activities and competitions with the support of IP office-Chennai, C-CAMP, Bangalore and IP Cell-Andhra University, Visakhapatnam
- ✓ I have established “Foldscope Facilitation and Training Centre” to train school and intermediate students on low-cost frugal science technologies since 2021.
- ✓ I have initiated a national level program called “Tap-Train-Thrive” program to create awareness about funding opportunities for research and science promotion to the University and College faculty
- ✓ I made MoUs with Seven Seas Aqua Farms Pvt. Limited, Visakhapatnam, Coastal Corporation Limited, Visakhapatnam, 30M Genomics Private Limited, Bycus Therapeutics Limited and Andhra Pradesh Med-Tech Zone, Visakhapatnam to promote employability and research skill among the students and faculty

PATENTS AND IP DETAILS AS APPLICANT

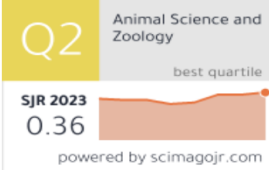
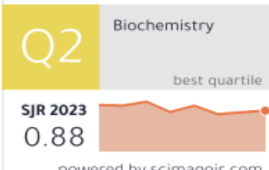
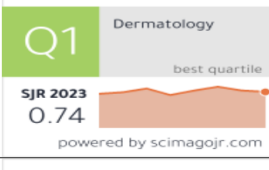
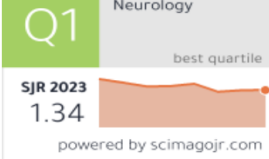
- An Indian Patent filed and Published entitled “A Diagnosis Kit and Method for Prediction of Post-Surgical Outcomes in Focal Cortical Dysplasia” Application No: 202441029946; Reference No: TEMP/E-1/34762/2024-CHE; C.B.R. No: 25268; Date of filing of Application:12/04/2024 & Publication Date: 19/04/2024
- An Indian Patent filed and Published entitled “An Origami based Compact Electrophoresis Device for Determining DNA/RNA Molecules and method thereof” Application No: 202441075858; Reference No: TEMP/ E-1/88497/2024- CHE; C.B.R. No: 61215; Date of filing of Application: 07/10/2024 & Publication Date: 11/10/2024.
- An Indian Patent filed and Published entitled “A PCR method of Amplifying DNA by using Digital Sequence as Template and a recombinant enzyme Digi PCR Polymerase” Application No: 202441075857; Reference No: TEMP/ E-1/88508/2024- CHE; C.B.R. No: 61215; Date of filing of Application: 07/10/2024 & Publication Date: 11/10/2024.
- An Indian Patent filed and Published entitled “A Method for Detecting Detergent Contamination in a

Water Using Curcumin Based Strips” Application No: 202441075859; Reference No: TEMP/ E-1/88526/2024- CHE; C.B.R. No: 61215; Date of filing of Application: 07/10/2024 & Publication Date: 11/10/2024.

- An Indian Patent filed and Published entitled “A formulation and method for preventing Post Harvest Losses (PHL) of harvested Crops” Application No: 202441075860; Reference No: TEMP/ E-1/88546/2024- CHE; C.B.R. No: 61215; Date of filing of Application: 07/10/2024 & Publication Date: 11/10/2024.
- A German patent going to file, publish and grant soon entitled “A diagnosis system for predicting post-surgical outcomes in patients with medically intractable epilepsy (MIE) caused by focal cortical dysplasia (FCD)”.

PUBLICATIONS

Published in Journals:

S. No	Title and Citation	DOI	IF	Quartile
01	Purification and characterization of a thermostable mycelial lectin from basidiomycete <i>Lentimus squarrosulus</i> * Ram S. Singh**, Hemant P. Kaur, Pradeep Kumar & Harpreet Kaur; <i>Biologia</i> 68/6: 1034—1040, 2013	https://doi.org/10.2478/s11756-013-0273-4	1.4	Biologia (Poland) 
02	Endoplasmic reticulum stress and unfolded protein accumulation correlate to seizure recurrence in focal cortical dysplasia patients; Kishore Madhamanchi, Pradeep Madhamanchi , Sita Jayalakshmi, Manas Panigrahi, Anuja Patil, Prakash Babu Phanithi* <i>Cell Stress and Chaperones</i> (2022) 27:633–643	https://doi.org/10.1007/s12192-022-01301-0	3.5	Cell Stress and Chaperones 
03	Regulation of Keap1-Nrf2 axis in temporal lobe epilepsy-hippocampal sclerosis patients may limit the seizure outcomes; Madhamanchi Kishore, Madhamanchi Pradeep , Parimala Narne, Sita Jayalakshmi, Manas Panigrahi, Anuja Patil, Phanithi Prakash Babu* <i>Neuro Sci.</i> 2023 Dec; 44(12):4441-4450.	DOI: 10.1007/s10072-023-06936-0	2.7	Neurological Sciences 
04	Dopamine and Glutamate Crosstalk Worsen the Seizure Outcome in TLE-HS Patients; Kishore Madhamanchi, Pradeep Madhamanchi , Sita Jayalakshmi, Manas Panigrahi, Anuja Patil, Prakash Babu Phanithi* <i>Mol Neurobiol.</i> 2023 Sep; 60(9):4952-4965.	DOI: 10.1007/s12035-023-03361-4	4.7	Molecular Neurobiology 

05	Correction to: Regulation of Keap1-Nrf2 axis in temporal lobe epilepsy—hippocampal sclerosis patients may limit the seizure outcomes; Madhamanchi Kishore, Madhamanchi Pradeep , Parimala Narne, Sita Jayalakshmi, Manas Panigrahi, Anuja Patil, Phanithi Prakash Babu* <i>Neurol Sci</i> 45 , 377 (2024).	https://doi.org/10.1007/s10072-023-06973-9	2.7	
06	Panchareddy MR, Kondala KP, Ponamgi SP, Madhamanchi P , Sampathirao SR, Peela S. TYPES OF EXTRA PULMONARY TUBERCULOSIS IN DIFFERENT BODY ORGANS. IJRAR-International Journal of Research and Analytical Reviews (IJRAR). 2023 Sep;10(3):467-75.	https://www.ijrar.org/papers/IJRAR23C2945.pdf	7.17	UGC CARE LISTED JOURNAL WITH No: 43602
07	Madhamanchi P , Peela S, Madamanchi K, Jayalakshmi S, Panigrahi M, et al. Imprints of Seizure Rate and Epilepsy Duration on Temporal 05 Lobe Epilepsy Outcome. <i>Indian J Neurol</i> . 2023;4(1): 119.	https://www.opensciencepublications.com/wp-content/uploads/IJNY-4-119.pdf	-	Indian Journal of Neurology is an international, open access peer reviewed journal encompasses the concepts on awareness of the neurosciences.
08	Pradeep M , Sujatha P, Ponamgi SPD, Kishore M, Jayalakshmi S, et al. Seizure Outcome Relates to Prognostic and Histological Factors in Patients with FCD and HS Associated Partial Epilepsy. <i>Indian J Neurol</i> . 2023;4(1): 121.	https://www.opensciencepublications.com/wp-content/uploads/IJNY-4-121.pdf	-	Indian Journal of Neurology is an international, open access peer reviewed journal encompasses the concepts on awareness of the neurosciences.
09	Madhamanchi P , Ronanki H, Paidi H, Madhamanchi K, Kareem MA, et al. Impact of Commercial Detergents on Organogenesis in Allium Cepa L. And Utility of Foldscope Tool. <i>J Plant Sci Res</i> . 2023;10(2): 253	https://gcmsklm.ac.in/laraadmin/public/uploads/1720157292.pdf	-	Journal of Plant Science and Research gives an open access to the current research and emerging scientific information pertaining to multidisciplinary areas of plant sciences
10	Panchareddy MR, Kondala KP, Ponamgi SP, Madhamanchi P , Sampathirao SR, Peela S. EXTRA PULMONARY TUBERCULOSIS AND ITS CONSEQUENCES IN VARIOUS BODY ORGANS. IJRAR September 2023, Volume 10, Issue 3	https://gcmsklm.ac.in/laraadmin/public/uploads/1722872848.pdf	7.97	Scholarly Open Access Journal, peer reviewed

Book Chapters:

Reference Books published on relevant subjects from reputed international publishers

The following Book Chapters Contributed for Reference Books published by International Publishers

S. No	Number and Name of the Book Chapter	Publishers	Page Numbers
01	Chapter 11-Application and Development Strategies of Nano-Adsorbents on Mercury Remediation	Springer	271-295
02	Chapter 16 - Proliferative signaling pathways in hepatocellular carcinoma	Science Direct	255-271

Reference Books published on relevant subjects from reputed National publishers

The following Book Chapters Contributed for Reference Books published by National Publishers

S. No	Number and Name of the Book Chapter	Publishers & Book Name	Page Numbers
01	Chapters: 5, 6 & 7	IGNOU: BBCCT: 125 Genetic Engineering & Biotechnology	69-122
02	Chapters: 4 & 6	M. Sc Biochemistry	125-232

PROJECTS GUIDANCE

Ph. D: Nil. But currently one project fellow working under my supervision in RUSA project. Based on her performance, I would like to offer Ph. D position.

PG: 05 Students from various parts of the Country by utilizing SERB Accelerate Vigyan Scheme

Details of Interns:

S. No.	Name of the Intern	Pursuing Degree (M. Sc. /M. Tech. etc.)	Department & Institute Name	Contact Details (Phone No. & Email Id)
1.	Jangala Chandini Priya	M. Sc	Punjab Central University	9000178934 chand.j@gmail.com
2.	Rakesh Komanapalli	M. Sc	Adikavi Nannaya University	8985745820 rkommanapalli@gmail.com
3.	Boya Sowmya	M. Sc	KVR Government College for Women, Kurnool	7400745820 Boyasowmya@gmail.com
4.	Pramod Gaike	M. Sc	Sanjivani Arts, Commerce and Science College, Kopargaon	8923465823 pramodgaike9@gmail.com
5.	Kankipati Vamsi Krishna	M. Sc	Krishna University	9760012364 vkvamsi187@gmail.com

UG:

UG Decertation Work

As a part of NEP-2020, the Andhra Pradesh Government implemented community service project for all UG students for the academic year 2020-21 onwards. In line to this as a PI, every year I need to assign, monitor and guide 20-25 students every year since 2021. So far, I have guided and mentor ~ 80 students for their final year dissertation work duration of 06 Months

S. No	Academic Year	No. of Students	Broad Area of the Work
01	2020-21	21	Survey on the Utility of Central and State Welfare schemes
02	2021-22	23	Identification of key factors responsible for the Bone Weakness in Srikakulam area
03	2022-23	19	Extraction and study the lectin activity of various mushroom species
04	2023-24	22	Usage of Foldscope as Educational and Research Tool

ADMINISTRATIVE WORK

1. Administrative Work (HOD, Dean, Chief Warden, Prof. Incharge (T&P), Advisor (Estate), CVO, PI (Exam), TEQIP (Coordinator)) Document

TO WHOM SO EVER IT MAY CONCERN

It is to Certify that Dr. Pradeep Madhamanchi, working as a Senior Lecturer in Biotechnology at Government Degree College for Men, Srikakulam since 2011 undertook following administrative responsibilities from his last promotion date i.e. 25-12-2017.

1. Head of the Department for Biotechnology	14 Semesters	28 Credits
2. Dean of Student Welfare Union	05 Semesters	10 Credits
3. Incharge for Department of Microbiology	02 Semesters	04 Credits
4. Incharge of Restructured Courses	03 Semesters	06 Credits

48 Credits

2. Administrative Work (Chairman and Convener of different Standing Committee and Special Committee (Ex-officio status will not be considered), Faculty in-charge (Each for one Year duration) of different units or equivalent) Document

TO WHOM SO EVER IT MAY CONCERN

It is to Certify that Dr. Pradeep Madhamanchi, working as a Senior Lecturer in Biotechnology at Government Degree College for Men, Srikakulam since 2011 undertook following administrative responsibilities from his last promotion date i.e. 26-12-2017.

1. NIRF Convener	06 Semesters	06 Credits
2. AISHE Convener	07 Semesters	07 Credits
3. IIC Convener	03 Semesters	03 Credits
4. Research Committee Convener	03 Semesters	03 Credits

19 Credits

3. Administrative Work (Warden, Asst. Warden, Associate Dean, Chairman/Convener Institute Academic Committees, In-charge Computer Centre/ IT Services/ Library/ Admission/ Student Activities and other Institutional Activities) Document

TO WHOM SO EVER IT MAY CONCERN

It is to Certify that Dr. Pradeep Madhamanchi, working as a Senior Lecturer in Biotechnology at Government Degree College for Men, Srikakulam since 2011 undertook following administrative responsibilities from his last promotion date i.e. 26-12-2017.

1. College Affiliation Committee Convener	03 Semesters	1.5 Credits
2. UBA Coordinator	06 Semesters	3.0 Credits
3. Youth Red Cross Convener	03 Semesters	1.5 Credits

6.0 Credits

4. Administrative Work (Departmental Activities identified by HOD like Lab in-charge or Department level Committee for a minimum period of one year) Document

TO WHOM SO EVER IT MAY CONCERN

It is to Certify that Dr. Pradeep Madhamanchi, working as a Senior Lecturer in Biotechnology at Government Degree College for Men, Srikakulam since 2011 undertook following departmental administrative responsibilities from his last promotion date i.e. 26-12-2017.

1. The Biotechnology Department Established Foldscope Facilitation and Training Centre and acting as its Coordinator for 06 Semesters **3.0 Credits**
2. The Biotechnology Department initiated College You Tube Channel and acting as Coordinator for 08 Semesters

4.0 Credits

7.0 Credits

CONDUCT OF WORKSHOP/FDP/SHORT TERM COURSE DOCUMENT

Workshop / FDP / Short term courses of minimum 05 working days

S. No	Title of the Program	Duration	Dates
01	DBT Sponsored Workshop on CAPACITY BUILDING IN MOLECULAR BIOLOGY	05 Days	26 – 30 September 2018
02	DST Sponsored Inspire Internship Science Camp 2019	05 Days	23 – 27 September 2019
03	DST Sponsored Inspire Internship Science Camp 2024	05 Days	05 – 09 February 2024
04	DST Sponsored Inspire Internship Science Camp 2024	05 Days	Proposed dates are 09 – 13 September 2024, but due to heavy rains the event was postponed to 04-08 November 2024. Supporting documents attached. Please consider it

GIAN Like Programs of duration 14 / 07 Days

S. No	Title of the Program	Duration	Dates
01	Science Academies Sponsored Refresher Course entitled Emerging Trends in Molecular Biology: Concepts and Practice	14 Days	02 – 15 March 2021
02	Science Academies Sponsored Refresher Course entitled Organization, Complexity and Evolution of Living Systems	14 Days	14 – 27 March 2022
03	SERB Sponsored Karyashala or High-End Workshop entitled “Ignition and Infix of Scientific Temper in Rural Areas”	07 Days	19 – 25 December 2022
04	SERB Sponsored Capacity Building Event “PCR Technology for Infections and Disease Diagnosis”	07 Days	13 – 19 November 2023

CONDUCT OF NATIONAL/ INTERNATIONAL CONFERENCE AS CHAIRMAN OR SECRETARY DOCUMENT

GIAN Like Programs of duration 14 / 07 Days

S. No	Title of the Program	Duration	Dates
01	Science Academies Sponsored Refresher Course entitled Emerging Trends in Molecular Biology: Concepts and Practice	14 Days	02 – 15 March 2021
02	Science Academies Sponsored Refresher Course entitled Organization, Complexity and Evolution of Living Systems	14 Days	14 – 27 March 2022
03	SERB Sponsored Karyashala or High-End Workshop entitled “Ignition and Infix of Scientific Temper in Rural Areas”	07 Days	19 – 25 December 2022
04	SERB Sponsored Capacity Building Event “PCR Technology for Infections and Disease Diagnosis”	07 Days	13 – 19 November 2023

THEORY COURSE TAUGHT DOCUMENT

In the past 13 years, I was mostly involved in teaching several undergraduate courses. I consider, teaching any undergraduate courses as a challenge as well as an opportunity to learn again that topic from scratch. Hence, I always found it to be very exciting and refreshing. List of UG courses in which I was involved, is as follows:

Course 6 Credit Courses (04 Theory & 02 Practicals)	Code	Duration	Students (Approx.)	Load (Hrs/week)
Cell Biology & Microbiology (T* & P [#]) <i>Common to all Life Science Students</i>	LS-101	26-12-2-11 to Till Date	120	4*+3 [#]
Biochemistry, Metabolism & Analytical Techniques (T* & P [#])	BT-102	12-06-2-12 to Till Date	40	4*+3 [#]
Immunology (T* & P [#])	BT-201	26-12-2-11 to Till Date	40	4*+3 [#]
Genetics, Molecular Biology & Genetic Engineering (T* & P [#])	BT-202	12-06-2-12 to Till Date	40	4*+3 [#]
Plant & Animal Biotechnology (T* & P [#])	BT-301	26-12-2-11 to Till Date	40	4*+3 [#]
Applied Biotechnology, Bioinformatics and Biostatistics (T* & P [#])	BT-302	12-06-2-12 to Till Date	40	4*+3 [#]

*T = Theory; [#]P = Practical

In addition to that I have designed and started 2 certificate courses of duration 01 year named “Disease Diagnosis in Shrimp Farming” and “Shrimp Processing Technology” and 01 UG program of duration 3 years i.e. “Shrimp Farming Technology” related to Aqua culture with the support of UGC-NSQF in 2020. I also involved in teaching courses like Fermentation Technology, Food Technology, IPR and Entrepreneurship, Biophysics, Bioelectronics, Computational Biology, system biology, Genomics and proteomics. Apart from the UG courses, from the past 02 years I was also involved in teaching post graduate courses. For the first time in the state UG colleges of Andhra Pradesh, I was designed and initiated PG Medical Biotechnology program to generate skilled manpower for emerging areas in medical sectors. The list of PG courses in which I was involved, is as follows:

Course 6 Credit Courses (04 Theory & 02 Practicals)	Code	Duration	Students (Approx.)	Load (Hrs/week)
Biochemistry & Analytical Techniques (T* & P [#])	PG-101	06-07-23 to Till Date	22	4*+3 [#]
IPR & Entrepreneurship Development in Medical Field (T* & P [#])	PG-103	06-07-23 to Till Date	22	4*+3 [#]
Animal Tissue Culture, Stem Cell Technology & Hybridoma Technology (T* & P [#])	PG-201	26-12-23 to Till Date	22	4*+3 [#]
Metabolism, its disorders and Metabolic Engineering (T* & P [#])	PG-203	26-12-23 to Till Date	22	4*+3 [#]
Research Methodology (T* & P [#])	PG-301	06-07-24 to Till Date	22	4*+3 [#]
Molecular Diagnosis (T* & P [#])	PG-304	06-07-24 to Till Date	22	4*+3 [#]
IKS	Audit Course	Since June 2023	22	2h/Week

*T = Theory; [#]P = Practical; ** Every Semester I am dealing with 03 UG & 03 PG Courses of 06 Credits each

Dr. Pradeep Madhamanchi dealing with Neurobiology Elective Course for Ph. D course work, at Dr. B. R. Ambedkar University, Srikakulam since 2023.

DETAILS OF SIGNIFICANT OUTREACH ACTIVITIES DOCUMENT

Significant Outreach Activities

Since 2017, after the CAS promotion I have been involved in various outreach activities mentioned below

S. No	Outreach Activity	Details
01	Create Awareness About Frugal Scientific Tools like Foldscope to the School and College students and Faculty of Rural Area	Since 2018 till Now
02	As UBA Coordinator, I have been adopted 05 Rural Villages and conducted several village developmental activities	Since 2020
03	As NSS Program Officer, involved in several societal developmental activities	Since 2017
04	As YRC Convener, I have conducted Blood Donation Camps and Medical Camps	Since 2021

AWARDS AND HONOURS

1. Qualified CSIR – UGC JRF & NET in December 2009 with all India Rank of 254
2. Master trainer for the IISER Pune Conducting Research Based Pedagogy Tools since 2017.
3. BOS Member for the UG Biotechnology course at DKW (A) College, Nellore, Dr. V.S. Krishna College, Visakhapatnam, Dr. B.R. Ambedkar University, Srikakulam.
4. External expert for the evaluation of Doctoral Theses in Biotechnology of various universities like Dr. B.R. Ambedkar University, Srikakulam
5. Chapters' writer for the IGNOU-New Delhi self-study material of UG & PG Biology
6. Selection committee member for the District Level Best Youth Coordinator from Self Help Groups (SHG) under Nehru Yuva Kendra (NYK)
7. Working as UBA Coordinator since 2019 and Conducted 2 Blood Donation Camps and several awareness camps on Swachh Bharat
8. Presenter for the Society for Andhra Pradesh NET work (SAPNET) through MANA TV for Biotechnology UG Students since 2016
9. Life member of Society Neuro Chemistry India (SNCI) since 2011
10. Life member of Society for Biotechnologists (India) since 2020
11. State Best Teacher Awardee for the year 2022
12. Teacher SRFP of Indian Academy of Sciences-Bangalore in 2023



Malaysian Journal of Microbiology

CERTIFICATE OF REVIEWING

In October 2023, awarded to

Dr. Pradeep M.

In recognition of the review made for the Manuscript entitled :

*CULTURE AND IDENTIFICATION OF MARINE BIOFILM FORMING BACTERIA BY 16 S R DNA SEQUENCE ANALYSIS
FROM VISAKHAPATNAM COAST, ANDHRA PRADESH, INDIA*

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