

Name : Dr. Jayapradha Alice Cheekurthy

Educational Qualification : M.Sc. (Biochemistry), M.Phil.
(Biochemistry), Ph.D. (Biochemistry), APSET
(Life Sciences)

Designation: Assistant Professor

Years of experience: 8

Maris Stella College: October 2020-Till Date

Other Institutions:

Academic

3 years-- (Asst. Professor & HoD Biochemistry in Osmania University affiliated College

2 years online Tutor & Subject Expert (Life Sciences) Certified Digital Teacher (ICT academy)

Research

CSIR-CSIO --1years 4months

Worked on Immobilization studies of DNA actin and myosin filaments, carbon nanotubes, and modified DNA between microelectrodes and tested the immobilized DNA for conductivity.

CSIR-IMTECH --1year

Optimization of conditions and Control of bioreactors for fermentation of Native and Recombinant Streptokinase using neural networks under simulated industrial conditions

Bio axis DNA Research Centre(P) Ltd, Hyderabad, India –6 months

Worked on DNA Isolation, purification, Primer Designing, Optimization of conditions for maximum amplification of DNA, DNA Sequence Analysis using different Bioinformatics Tools and database.

G Suite Email Id: alicejayaprada@marisstella.ac.in

Email Id: dralicejaya@gmail.com

Contact No: 9581771118, 7661904056

Languages Known: English, Hindi, Punjabi, Telugu

Hands-on Experience

Biochemistry and Biotechnology processes/equipment

- Polyacrylamide gel electrophoresis
- Agarose gel electrophoresis
- Sonication
- Centrifuge, Ultracentrifuge
- Gel Filtration and Hydrophobic Interaction Chromatography
- Protein purification
- In situ sterilization of Bioreactors
- Thermocycler for Polymerase Chain Reaction
- RT-PCR
- Western Blot and Southern Blot techniques
- Isolation culturing and Staining of Microorganisms
- Tissue culture techniques
- Biomarkers Studies
- Diagnostic and Prognostic testing

Technical

- Bioinformatics tools
- Bioinformatics Database
- Biostatistics
- SNP Profiling
- Online Teaching tools
- Innovative pedagogical methods of teaching-Moodle, H5P

Areas of Research Interest:

- ✓ Diabetes
- ✓ Molecular Genetics of disease
- ✓ Disease Predisposition studies
- ✓ Fermentation
- ✓ Up Stream processing
- ✓ Down Steam Processing
- ✓ Biotechnology
- ✓ Bionanotechnology

Areas of Academic Teaching Interest:

- ✓ Enzymology
- ✓ Immunology
- ✓ Molecular Biology
- ✓ Recombinant DNA Technology
- ✓ Microbiology

✓ Cell Biology

Academic Contribution:

As a faculty member of for M.Sc. Biochemistry and B.Sc., Biochemistry, Microbiology, Biotechnology & Food Science Technology have experience in teaching following Subjects- General, Clinical & Applied Biochemistry, Biotechnology, Recombinant DNA technology, Microbiology, Medical Microbiology and Microbial Biotechnology and Food Science & Technology.

Courses Taught

Enzymology, Immunology, Molecular Biology, Gene Regulation Biomolecules, Recombinant DNA Technology and Genetic Engineering, Immunology, Immunochemical Techniques, Bioanalytical Techniques, Biochemical Genetics Biotechnology, Model Organisms, Bioenergetics and, Cell Biology.

General Microbiology, Medical Microbiology, Microbial Biotechnology.

Food Science Technology

Therapeutic Nutrition.

Academic Profile:

Ph.D. (Biochemistry)

Topic: Study of Genetic and Non-Genetic risk factors for Type 2 Diabetes and its related complications

M.Phil. (Biochemistry)

Topic: Immobilization of reconstituted Bacteriophage lambda DNA on the solid support
Acharya Nagarjuna University, Guntur, India

M.Sc. (Biochemistry)

Acharya Nagarjuna University, Guntur, India

University College

Nagarjuna University, Guntur, India

B.Sc. [Biochemistry, Microbiology, Nutrition]

V.S.R & N.V.R College, Tenali

(Nagarjuna University) A.P, India.

APSET Qualified (Life Sciences)



- ORCID: <https://orcid.org/0000-0002-2487-5392>
- Scopus Author ID: 57195571909
- Google Scholar: <https://scholar.google.com/citations?user=dtH0-ykAAAAJ&hl=en>
- Vidwan ID: 170681

- Web of Science Researcher ID: J-8872-2019
- ResearchGate Profile: <https://www.researchgate.net/profile/Dr-Alice-Jayapradha-C>
- LinkedIn: <https://in.linkedin.com/in/dr-alice-jayapradha-cheekurthy-a9a6b558>

Refresher Courses/Orientation Courses/Short Term Courses Attended:

1. Creating H5P - Interactive Content in Moodle
2. An Introduction to Hybrid Teaching
3. Certificate Course on Digital Teaching Techniques” from ICT Academy!
4. Nanotechnology: A Maker’s Course

RESEARCH ARTICLES IN JOURNALS

International Journals: 13 Publications

Book Chapter(s): 1(one)

INTERNATIONAL JOURNALS

Conference Proceedings

Paper Presentations: Presented 5 papers and 2posters in International Conference and 3 papers published 2 under processing.

Research Publications:

RESEARCH ARTICLES IN INTERNATIONAL JOURNALS

2021

Predisposition of Obesity through Genetic and Non-Genetic Risk Factors, Journal of Endocrinology Research Vol3, Issue 3, pp27-30.

2019

1. Predisposing factors for Prevalence of Hypertension in Type 2 Diabetes Mellitus patients. EC Nursing and Healthcare 1.3 (2019): 01-06.
2. Prevalence of Anaemia and Abnormality in Absolute Blood Count in Type 2 Diabetes Mellitus Patients. EC Diabetes and Metabolic Research Volume 3(1),2019, 6-9.

2016

1. Gene as a risk factor for type 2 diabetes mellitus and its related complications, Biomed Res Clin Prac, 2016 DOI: 10.15761/BRCP.1000104 Volume 1(1): 14-17;2016.
2. Validation of Reported Single Nucleotide Polymorphisms in the Genes Associated with Type 2 Diabetes Mellitus. J Dia Res Ther 2(1): 2016doi <http://dx.doi.org/10.16966/2380-5544.114>
3. Association of Angiotensinogen Gene Variants with Type 2 Diabetes Mellitus Related Hypertension. EC Endocrinology and Metabolic Research 1.1 (2016): 4-9.

4. Validation of Reported Single Nucleotide Polymorphisms in the TLR4 Gene Associated with Diabetic Foot Ulcer. *Endocrinol Diabetes Res*2:1;2016.doi: <http://dx.doi.org/10.4172/ecdr.1000112>.
5. Prevalence of Type 2 Diabetes Mellitus among women and the associated risk factors in *Journal of Nursing and Health Sciences*. RRJNHS, Volume 2 , Issue 2:2016 ;26-30.
6. Prediction of Cardiovascular Disease Event in Type 2 Diabetes Mellitus by Gene Variants and Abnormalities of Lipid Profile, *International Journal of Diabetes and Metabolic Disorders*; Volume1, Issue 1, pp1-4,2016. doi.org/10.33140/IJDMD/00006

2015

1. Biochemical Biomarkers-Independent Predictors of Type 2 Diabetes Mellitus. *J Bioanal Biomed* 7: 035-039:2015. DOI: 10.4172/1948-593X.1000121
2. Association of New Single Nucleotide Polymorphism with Type 2 Diabetes Mellitus. *J Diabetes Metab* 6: 530.2015.doi:10.4172/2155-6156.1000530

2014

1. Immobilization of Reconstituted Bacteriophage lambda DNA on the Solid Support, *Helix* Vol. 4: 579- 581; 2014.
2. Recombinant version of streptokinase: An overview, *J Bioanal Biomed*, 6:2;2014.

Other Publications

1. Title: 'A Dramatic Change in Life Science Research'
- Published in, *Education Plus*, THE HINDU ON September 25, 2006.
2. Title: 'Two genes root cause for Type 2 Diabetes'
- study published in *New Insights - Deccan Chronicle* in July 28, 2018.
3. Title: 'Melkonde'
-Published in *Eenadu -Telugu Daily* on 13th August. 2018

Research Projects:

- Socio-epidemiological determinants of Diabetes in Krishna district of Andhra Pradesh, India: a qualitative study
Status On going
- From Steatosis to Cirrhosis – A genetic and non-genetic predisposition study in the states of Andhra Pradesh and Telangana in India.
Submitted to: ICMR
- Studies on Genetic and non-genetic determinants as risk factors for sudden cardiac death and Hypertension in the subjects with Type 2 Diabetes Mellitus
Submitted to: Department of Science and Technology
WOMEN SCIENTISTS SCHEME (WOS-A).

- Submitted to DST –SERB project on Liver cirrhosis
- Submitted RUSA Project on Genetic risk factors for sudden Cardiac Death in Diabetes mellitus patients
- Submitted UGC Kothari project for newly recruited faculty

Books Published/Chapters in Books:

Book Chapter(s):

1. Biotechnology and Bio forensics - New Trends Published by Springer Brief in Applied Sciences and Technology
Chapter 5: Predisposition factors of T II Diabetes Mellitus and related Complications 2015, pp 43-50

Research Guideship: None

Workshops/Seminars/Webinars/Conferences/Symposiums Attended:

Symposium

9th Coastal Karnataka Chapter -annual Symposium of Society of Biological chemists (India)

Workshops:

1. Workshop on Capacity Building in Higher Education by United Board, South Asia
5th & 6th March 2021
2. One Week Workshop on Recent Trends in Research Methodology 11th - 15th October 2021
3. Workshop in Formal Written Communication 19th - 23rd October, 2020
4. Workshop on Service-Learning conducted by United Board, South Asia
11 & 12th January 2021
5. Workshop on Biostatistics, Research Methodology and Manuscript preparation, Hyderabad.
6. National Workshop on Proteomics and Genomics, Institute of Microbial Technology, Chandigarh. 23rd to 26th. November 2001
7. Workshop on Biostatistics, Research Methodology, and Manuscript preparation, Hyderabad
8. Workshop on Biostatistics, Primax Academy, Bangalore.

Conferences Attended

1. 3rd International conference and Exhibition on Biowaivers Biologics and Biosimilars OMICS group. Held in Hyderabad
A recombinant version of streptokinase: An overview 3-Days
Poster Presented and Paper published

2. International Conference on Emerging Trends in Biomarker Research held in Jawaharlal Nehru Institute of Advanced Sciences
Biochemical Biomarkers for Type 2 Diabetes Mellitus
Paper presented Papers Published 2-Days
3. 5th International Conference on Emerging Trends in Applied Biology, Biomedicine and Bio Forensics 2-Days
Predisposition of Type II Diabetes and Related Disorders
Paper presented and published
4. Genomics in Health and Diseases organized by CIENCIA, Hyderabad 2-Days
Gene as a risk factor for Type 2 Diabetes and Related Complications
Paper presented and published.
5. International Conference Nano-Bio 3 held in University of Hyderabad 1-Day
6. Two-Day National Online Conference on Impact of COVID -19 on LifeStyle Disorders held Maris Stella College Vijayawada. 2-Day
Organizer and participant for the event.

Seminars/ Webinars /Symposiums Attended

1. Participated in the webinar on Boost microbial detection sensitivity with unbiased human host DNA and RNA depletion 9.04.23 organised by Labroots.
2. Participated in One day Faculty Development programme on Recent Trends in Cognitive Science and its applications during 13th to 18th MARCH 2023 ORGANIZED By Department of CSE.VNRVJIET in collaboration with Vikram University, Oriental University, SOC,IPS Academy Indore.
3. Participated in the 5 Day International Nutritional Webinar 2K22 from 1st to 5th September, 2022 organized by the Department of Biochemistry & IQAC, St. Joseph's College for Women (A), Visakhapatnam.
4. Participated in webinar on Industrial Biotechnology, Jobs, Future and scope 18.6.2022 organised by Learn to upgrade.
5. Participated in webinar on Food Microbiology, Future scope and opportunity webinar on 2.7.2022 organised by Learn to upgrade.

6. Participated in webinar on The Art and Science of Hematology Morphology: Platelet Morphology 1.6.2022 organised by Learn to upgrade.
7. Participated in the webinar on Fighting Pandemics and Building a Healthier and more Equitable World - Getting back on track to end AIDS on 6.2.23 organised by Labroots.
8. 9th Coastal Karnataka Chapter -annual Symposium of Society of Biological chemists (India) 23rd October,2021
9. One day international webinar on “Antibiotic Discovery Strategies in the Era of Drug Resistance” organised by Department of Chemistry. B. Siddhartha College of Arts & Science, Vijayawada. 27th September 2021
2. International on Webinar on Diabetes and the Clinical Laboratory 17thJan, 2021
3. International on Webinar Analytical Limitations of HbA1c: Factors to consider when choosing an HbA1c Methodology 17thJan, 2021
4. The HbA1C test and its role in My Endocrinology Practice
5. Creating Climate-friendly and Sustainable Campuses
6. Diabetes and the Clinical Laboratory
7. Importance & benefits of Trademarks and Copyrights for MSMEs, Startups, and Institutions
8. Laboratory Medicine and Healthcare Excellence; Till death do us part.
9. Seminar on Gene, Genome and Gene Therapy, Dr. Inder Verma of Salk Institute at Punjab University

FDPs/Training Programs Attended:

1. Participated in Two-day Workshop on Application of Design Thinking in Higher Education organised RVIM-IQAC on 22nd and 23rdDec.2022.
2. Participated in the United Board sponsored Phase I: Five-day Virtual Capacity Building Workshop on ‘Research & Publications in Service-Learning Programs’ during 9 – 13 Jan. 2023 organised by the IQAC, Maris Stella College.
3. Participated in One day Faculty Development programme on Recent Trends in Cognitive Science and its applications during 13th to 18th MARCH 2023 ORGANIZED By Department of CSE.VNRVJIET in collaboration with Vikram University, Oriental University, SOC,IPS Academy Indore
4. Participated in Interdisciplinary Six-Day National Webinar cum Faculty Development Programme on Emerging Trends and Technologies in Development of Skills in Higher Education from 21.11.2022 to 26.11.2022 jointly organized by Department of English and Zoology, JMJ College for Women (Autonomous), Tenali.

5. Participated in the Professional Development Programme: Two-day Workshop on 'Professionalism, Work Ethics & Ethos for Professional Growth' during 11 - 12 November, 2022 organised by the IQAC, Maris Stella College.
6. Participated in Two-day National Workshop NAAC & RV institute of Management
7. Participated in One-day National Webinar on 'Effective Implementation of NEP 2020: Role of Teachers & Institutions' on 08.10.2022 organised by the IQAC, Maris Stella College (A), and Vijayawada.
8. Participated in One-day National Webinar on 'Effective Implementation of NEP 2020: Role of Teachers & Institutions' on 08.10.2022 organised by the IQAC, Maris Stella College (A), and Vijayawada.
9. Participated in 2 days of the International, English Language, Degree-Faculty workshop (Inter)Activate your Teaching August 10-12, 2022, sponsored by St. Joseph's College for Women (A), Visakhapatnam, SJC Language Centre and Regional English Language Office, U.S. Embassy, New Delhi Presented by: Mina Gavell, Shannon Smith, Thomas Kral
10. Participated in 3Day National Level Webinar on Research Guidelines –Literature Review, Questionnaire Designing and Application of Statistical Tools held between 2nd to 4th November 2022.
11. Participated in One-day National Webinar on 'Effective Implementation of NEP 2020: Role of Teachers & Institutions' on 08.10.2022 organised by the IQAC, Maris Stella College (A), and Vijayawada.
12. Participated in the Faculty Development Programme: Three-day Workshop on 'Learning through Language Supportive, Interactive & Inclusive Pedagogy' from Sept. 12to Sept. 14, 2022 organised by the IQAC in collaboration with the US Consulate, Hyderabad.
13. Participated in the five-day virtual Faculty Training Programme on 'Concepts and Service-Learning Models' held from 7th to 11th February, 2022 organised by the IQAC, Maris Stella College, Vijayawada sponsored by the United Board, South Asia.
14. One week FDP on Research Design Ethics and Metrics organised by IQAC and Research promotion & monitoring cell. 8th-23rdOctober, 2021
15. 7days Training on Digital training Techniques ICT Academy 18th-23rd Jan 2021
16. Introduction to Hybrid teaching by United Board, South Asia. 21st July,202110

17. Training in Advanced Molecular Biology and Tissue Culture Techniques, G.M. Reddy Research Foundation.
18. Training on Immobilization techniques at Central Scientific Instruments Organization (CSIR Lab), Chandigarh, India
19. Training in Advanced Microbiology, Biochemistry, Molecular Biology Biotechnology and Bioinformatics techniques at Bio Axis DNA Research Centre (P) Ltd, Hyderabad, India.

Membership in Professional Bodies:

- Organization for Women in Science for the Developing World (OWSD) from 2021
- Asian Research Society from 2021
- BoS in charge of UG Biochemistry, Maris Stella College, Vijayawada, Andhra Pradesh. From 2021
- BoS member of UG Biochemistry, Krishna University from 2021
- Peer reviewer and Editorial Board member for International and National Journals of Repute.

Recognition/Awards/Certificate & Letter of appreciation:

Recognition:

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- Speaker and abstract selected Poster "2nd Annual summit on Diabetes and Endocrinology" held on October 18-19, 2021 in Paris, France
Presentation on: "Disproportionate Distribution of Alzheimer in a Woman"
- Keynote speaker and organizing committee member for WCDE 2021. Virtual World Congress on Diabetes and Endocrinology held on September 15-16, 2021
Presentation on: Prevalence of dyslipidemia and hypertension among women with diabetes
- Invited Speaker for 13th Webinar on Diabetes and Obesity held on June 26th, 2021.
Presentation on: Predisposition of Diabetes: An Enemy within you.
- Invited Speaker for International Congress and Expo on Cardiology (Cardiology-2017) held in Miami, USA
Presentation on: Genetic Polymorphism and Lipid Abnormalities in Predisposition of Cardiovascular Disease.

Certificate & Letter of appreciation:

- Appreciation of research contributions to WCDE 2021: Virtual World Congress.

- Project MANAV -The Human Atlas Initiative.
- Speaker for International Conference Endocrinology and Diabetes 2020
- Plenary speaker and Organizing Committee for International Conference Cardiology-2016

Other Professional Activities:

- BoS Biochemistry (Undergraduate) In charge, Maris Stella College, Vijayawada.
- BoS Biochemistry (Undergraduate) Member, Krishna University.
- Faculty Coordinator for the Webinar hosted on 23/08/2021 at Maris Stella College (Autonomous).
- Certified Reviewer & Editorial Member for National and International Journals of repute.
- External Examiner for M.Sc. Biochemistry Practical Examination Conducted by Osmania University and Krishna University,
- Question Answer Expert Chegg Tutors
- Online Tutor on Superprof
- Online Tutor on Teacher on