

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA
DEPARTMENT OF BIOCHEMISTRY

Academic Profile

Name: K. Krishna Manohar

Department: Biochemistry

Designation: Assistant Professor, Head Biochemistry

Academic Qualifications: M.Sc., (Ph.D)., CSIR-NET, AP-SET, GATE, INSA

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Areas of interest: Green chemistry, bio active compounds, Clinical and Cancer biology

Total Teaching Experience: 8 years.



Academic Positions

- Head, Department of Biochemistry, Maris Stella College, Vijayawada
- Chairperson BoS, Department of Biochemistry, Maris Stella College, Vijayawada
- Subject expert, UG-Biochemistry, B.R Ambedhkar University, Srikakulam

Experience in other institutions

- Worked as Head & Assistant professor in the Department of Biochemistry, M.R.P.G. College (July2016 to June 2023)
- Worked as life science co coordinator for UG Courses in M.R.P.G College (July 2021 to June 2023)

Research Experience: One year

- Worked as Indian academy of science summer research fellow in Indian institute of chemical biology (CSIR- IICB)
- Worked as junior project fellow in Prof. Brien Holden Eye Research Center, Champalimaud Translational Centre for Eye research, L.V. Prasad Eye Institute, Banjara Hills, Hyderabad.

Academic Achievements:

- CSIR UGC NET – 2015 and 2017
- Andhra Pradesh and Telangana State eligibility test - 2014
- GATE- 2013 and 2016
- Indian academy of sciences Fellowship – 2012

Membership in Professional Bodies: --

- Subject expert, Board of Studies, UG- Biochemistry, Government Degree College for women, Srikakulam.
- Chairman, Board of Studies, UG - Biochemistry, Maris Stella College, Vijayawada
- Chairman, Board of Studies, UG - Biochemistry, M.R.College (autonomous), Vizianagaram

Administrative Experience:

- Worked as life science co coordinator for UG Courses in M.R.P.G College (July 2021 to June 2023)

Certificate course:

- Successfully completed the certificate course with first class on “Understanding patenting process in India” from 21st August to 26th August 2023 organized by DPIIT-IPR Chair, Centre for Intellectual property rights, Andhra University

Laboratory Skills:**Biochemistry:**

- Qualitative analysis of biomolecules
- Quantitative analysis of biologically important compounds
- Isolation and purification of proteins

Enzymology:

- Enzyme Assays and kinetics
- Isolation and purification of enzymes

Bio analytical techniques

- Chromatographic methods (Paper, Thin layer, HPLC and GC, Metal affinity resin)
- UV Visible Spectrophotometer
- Electrophoresis

Clinical Biochemistry

- Estimation of different electrolytes and ions (Calcium, chloride, Iron, Phosphorus etc.) in Blood
- Perform liver function tests and renal function tests
- Assessing the Diagnostic enzymes and proteins levels in diseased conditions

Immunology:

- Immunodiffusion
- ELISA
- Immunoelectrophoresis
- Immunoprecipitation

Food and Nutrition

- Quantitative estimations of Vitamins
- Estimation of egg shell calcium, phosphorus
- Glycemic index and Nutritive values of different foods

Molecular biology:

- Quantitative estimations of RNA and DNA
- Isolation of genomic DNA from Onion tissue
- Restriction digestion
- PCR
- Agarose Gel Electrophoresis

Forensic Biochemistry:

- Isolation of DNA from Hair, blood and semen
- Collection of fingerprints
- Organic poison detection

Seminars/ Conferences/ Workshops/ FDP Organized: 02

- Faculty Development Programme on “Recent advances in r- DNA Technology and Immunodiagnosics” jointly organized by Department of Life Sciences, Maharajah’s Post Graduate College, Vizianagaram and Department of Zoology, Maharajah’s Autonomous College, Vizianagaram on 22nd& 23rd December, 2018.

- Two-day workshop Programme on “Recombinant DNA and Bioanalytical Techniques (RDBT-2019)” organized by Department of Life Sciences, Maharajah’s Post Graduate College, Vizianagaram on 6th February, 2019.

Refresher Courses, FDP and other programs attended:

- Coordinator in Faculty orientation course organized by MANSAS educational institutions, Fort, Vizianagaram (June, 2018).
- Three day national FDP and workshop on The AI educators toolkit, Conducted by Maris Stella College from 21st November to 23rd November 2023.

Workshops/ Trainings/ Seminars Participated:

International

- Attended a Two day International conference on “Recent innovations in chemical and biological engineering” organized by Department of Biological sciences, Indian institute information technology (IIIT NUZIVID – Andhra Pradesh) on 16th to 18th September 2021.
- Attended a Five day international nutritional webinar 2k23, Conducted by St. Joseph College, Visakhapatnam from 1st September to 5th September 2023.
- Attended a International webinar on exploring research trends on chemistry and Biochemistry, Conducted by SRR Govt. Degree College, Vijayawada on 29th November 2023

National

- Attended a Two day Capacity building Workshop on Andrew Furco’s self-assessment rubrics for self -assessment rubric for the institutionalization of service-learning in higher education, Conducted by Maris Stella college, Vijayawada from 4th December to 5th December 2023.

- Attended a one day National workshop on “Immunological perspectives in transplantation and cancer” organized by Indian immunological society and Department of Biochemistry s, Andhra university on 16th December 2022.
- National workshop on BIOCHIMICA-2K22, conducted by Department of Biochemistry, Andhra University, Visakhapatnam on 10th December 2022
- Attended a Two day National Workshop on “Recent advances in biochemistry and microbial technology” organized by Department of Biochemistry, Andhra university, Visakhapatnam on 29th to 30thNovember 2021.
- Attended a Two day National Workshop on “Recent advances in biological sciences techniques- Bioinformatics” organized by Department of Biochemistry, Andhra university, Visakhapatnam on 23rd to 24th June 2020.
- Attended a Three day National Workshop on “Capacity building in Molecular Diagnostics” organized by Department of Biotechnology, Govt. Degree College, Srikakulam on 22nd to 24th January 2018.
- Attended a Two day National Seminar on “Present scenario on potential of bioactive compounds organized by Dept. of Biochemistry, Andhra University, Visakhapatnam on 25thand 26thMarch 2013
- Attended a Two day Workshop on “Protein engineering and its applications” organized by Dept. of Biotechnology, GITAM Institute of science, GITAM University, Visakhapatnam on 20thand 21st January 2011