

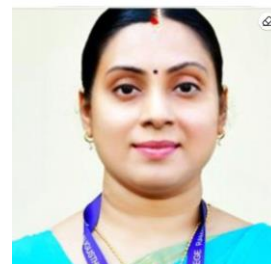
RATHI C R

Designation: Assistant Professor

Qualification: M.Sc.

Email (official): rathicr11@gmail.com

Mob. 9207720011



Profile in Detail

Academic records

- ✚ **M.Sc.** : Biotechnology, Bharathiar University, Coimbatore.
- ✚ **COPA** : Computer Operator and Programming Assistant, Govt ITI, Palakkad.
- ✚ **B.Sc.** : Zoology and Sericulture, Govt. Victoria College, Calicut University (Third Rank)

ONLINE -CERTIFICATE COURSES

- ✚ Learning to teach online : University of New South Wales Sydney.
 - ✚ Positive Psychiatry and Mental Health : University of Sydney.
 - ✚ Advanced Writing : University of California.
 - ✚ Introduction to Genomic Technologies : Johns Hopikings University, Maryland.
 - ✚ Understanding Research Methods : University of London.
 - ✚ Bioinformatic Methods II : University of Toronto Canada.
 - ✚ The Sustainable Development Goals- A global, transdisciplinary vision for the future: University of Copenhagen Denmark.
 - ✚ COVID-19 What You Need to Know: Interstate Postgraduate Medical Association.
 - ✚ Introduction to Big Data : University of California UC SanDiego.
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Teaching / Research / Professional Experience

Years (in total) – 11 years (Teaching-9.5, Research-1.5)

- ✚ Name of Institution: Mar Augusthinose College, Ramapuram.
- ✚ Position held: Asst. Professor
- ✚ Period (from-to): 2019 –to present
- ✚ Subject handled & Nature of duties: Teaching the subjects of UG and PG Biotechnology.
- ✚ Name of Institution: Newman College, Thodupuzha.
- ✚ Position held: Asst. Professor
- ✚ Period (from-to): 2015 –2017
- ✚ Subject handled & Nature of duties: Teaching the subjects of UG Botany with Biotechnology.

- ✚ Name of Institution: PRS, Kerala Agricultural University. Vazhakulam.
- ✚ Position held: Biotechnologist.
- ✚ Period (from-to): 2012 –2013
- ✚ Subject handled & Nature of duties: Research Assistant in Plant Tissue culture.
- ✚ Name of Institution: Mercy College, Palakkad.
- ✚ Position held: Asst. Professor
- ✚ Period (from-to): 2012 June –2012 December.
- ✚ Subject handled & Nature of duties: Teaching the subjects of UG Biotechnology.
- ✚ Name of Institution: JNV Palakkad.
- ✚ Position held: Post Graduate Teacher in Biotechnology.
- ✚ Period (from-to): 2008 –2012.
- ✚ Subject handled & Nature of duties: Teaching the subjects of Biotechnology.
- ✚ Name of Institution: DST-IRTC Palakkad.
- ✚ Position held: Research Assistant.
- ✚ Period (from-to): 2007 –2008
- ✚ Subject handled & Nature of duties: Research Assistant in DST- funded Project.

Administrative responsibilities held in College

- ✚ Coordinator of MOOC-Organic Farming.
- ✚ Faculty of Value-Added courses
- ✚ Faculty of Add-on courses
- ✚ Coordinator of Anti-Narcotic club.

Positions held in University level

- ✚ Additional Examiner for UG and PG Biotechnology.

Publications in UGC journals/peer reviewed national/international journals

- ✚ **“Green cellular delivery of silver nanoparticles from *Mirabilis jalapa* flower extract and its antipathogenic activity”** International Journal of Creative Research Thoughts, Vol 8, 7 July 2020;4237-4243; ISSN :2320-2882.
- ✚ **“Green cellular delivery of copper nanoparticles from *Mirabilis jalapa* flower extract and its antipathogenic activity”** International Journal of Scientific Research in Science and Technology, Vol 7, July-August 2020; 255-262; ISSN:2395-6011.
- ✚ **“Green cellular delivery of iron nanoparticles from *Mirabilis jalapa* flower extract and its antipathogenic activity”** International journal of science & Engineering development research, Vol 5,12 December 2020;139-144 ISSN: 2455-2631.
- ✚ **” *Mirabilis jalapa* flower extract as therapeutic agent and cellular delivery by nanoparticles”** Journal of drug delivery and therapeutics Vol 11(1-s: February 2021;53-56 ISSN: 2250-1177.

Published books with ISBN







1. "Screening of exogenous IAA producing plant growth promoting Rhizobacteria from agriculture soil", October 2020, Publisher: Amazon Publishers, USA, ISBN: 9798698630845.
2. "Synthesis of nanoparticles from *Mirabilis jalapa* and evaluation of antioxidant activity" September 2020, Publisher: Amazon Publishers, USA, ISBN: 9798692807755.
3. "*Mirabilis jalapa* as natural food dye and primary quality analysis." September 2020, Publisher: Amazon Publishers, USA, ISBN: 9798691058318.
4. "Evaluation of protoplast viability of *Mirabilis jalapa* and synthetic seed production", September 2020, Publisher: Amazon Publishers, USA, ISBN: 9798690573454.
5. "Oyster mushroom cultivation using sawdust and paddy straw as substrate and quality analysis", September 2020, Publisher: Amazon Publishers, USA, ISBN: 9798689791517.
6. "Evaluation of herbal ointment for the development of skin conditions", September 2020, Publisher: Amazon Publishers, USA, ISBN: 9798688228014.
7. "Wine production from vegetables and preliminary component analysis: an overview", 2019, Publisher: Amazon Publishers, USA, ISBN: 9781709797835.
8. "A comparative account on invitro antibacterial activity of bathing soaps and various plant extracts", 2020, Publisher: Amazon Publishers, USA, ISBN: 9798621321055.

Paper presentations in Seminars/Conferences/Symposium

1. "Therapeutic proteins in the milk of transgenic animals **First prize** in the poster presentation. National seminar on stem cells and clinical applications. Centre for Biotechnology, Acharya Nagarjuna University, A.P, India
2. "Mirabilis jalapa flower extract as natural food dye and green synthesis of nanoparticles", in the International Conference on "Recent developments in Bioscience (ICRDBS-2021), jointly organised by Department of Biotechnology and Microbiology, Rathinam College of Arts and Science, Coimbatore.
3. "*Mirabilis jalapa* flower extract", International Conference on Current trends in Biotechnology (ICCTB 2020) Department of Biotechnology, SNGC, Bharathiar university, Coimbatore.
4. "Preparation of wine and preliminary component analysis from leafy vegetables", International Conference on Homeopathy & Phytomedicine (IHP), 2020, Department of Biochemistry, St. Thomas College pala.
5. "Comparative analysis of animal-based milk and plant-based milk", International Conference on Homeopathy & Phytomedicine (IHP), 2020, Department of Biochemistry, St. Thomas College pala.

6. “Emerging benefits of *Bacopa monnieri* (Brahmi) in neuro psychopharmacology”, International Conference on Homeopathy & Phytomedicine (ICHP), 2020, Department of Biochemistry, St. Thomas College pala.
7. “Cosmo pharmaceutical activity of *Grana mangostana*”, International Conference on Homeopathy & Phytomedicine (ICHP), 2020, Department of Biochemistry, St. Thomas College pala.
8. “Dynamic herbal formulations of *Adhatoda vasica* for management of dengue fever”, International Conference on Homeopathy & Phytomedicine (ICHP), 2020, Department of Biochemistry, St. Thomas College pala.
9. “Phytomedicinal and antioxidant activity of *Tinospora cordifolia* leaves extract”, International Conference on Homeopathy & Phytomedicine (ICHP), 2020, Department of Biochemistry, St. Thomas College pala.
10. “Green synthesis of silver nanoparticles from *Mirabilis jalapa* L. therapeutic and natural extract as food colorants”, International Conference on Homeopathy & Phytomedicine (ICHP), 2020, Department of Biochemistry, St. Thomas College pala.
11. “Evaluation of tea waste for their degradation and antioxidant potential along with caffeine extraction”, International Conference on Homeopathy & Phytomedicine (ICHP), 2020, Department of Biochemistry, St. Thomas College pala.
12. “Genomics and proteomics way towards Parkinson’s disease”, International conference of “Biotechnology- proteins and Realities”, P.S.G.R Krishnammal College, Coimbatore, and Tamil Nadu, India.

Seminars/Conferences/Symposium/ Workshop/ Webinar attended

-  International Webinar on “Nanocarriers for cancer drug delivery” organized by Department of Biosciences and IQAC, MACFAST on 27/10/2020.
-  International Webinar on “Millets: Nutritional potential and challenges” organized by G.N Ramachandran science Club, MACFAST on 08/10/2020.
-  International Webinar on “National education policy in nutshell” organized by Unnat Bharat Abiyan Cell, St Thomas College palai on 07/10/2020.
-  International Webinar on “Informed walk across Ramachandran map in search of novel materials”, G.N Ramachandran science Club, MACFAST on 07/10/2020.
-  International Webinar on “Nonmuscle myosin II activity controls membrane protrusive activity”, G.N Ramachandran science Club, MACFAST on 01/10/2020.
-  International Webinar on “Malnutrition problems in Indians and future prospective”, G.N Ramachandran science Club, MACFAST on 30/09/2020.

- ✚ International Webinar on “Bioweapons: a view on defense of the crops and foods against insects”, G.N Ramachandran science Club, MACFAST on 29/09/2020.
- ✚ International Webinar on “Linking DNA replication to chromosome organization, cell cycle progression and genome stability”, G.N Ramachandran science Club, MACFAST on 28/09/2020.
- ✚ International Webinar on “Towards a system level understanding of proliferation control in mammalian cells using MS based proteomics”, G.N Ramachandran science Club, MACFAST on 24/09/2020.
- ✚ International Webinar on “A plant's eye view on diversity and why plants matter”, G.N Ramachandran science Club, MACFAST on 18/09/2020.
- ✚ International Webinar on “Structure based protein engineering to alter functional properties of enzymes for industrial and pharmaceutical applications”, G.N Ramachandran science Club, MACFAST on 16/09/2020.
- ✚ International Webinar on “Nano size steps and meter long journeys reaching destination through obstacles and random walk”, G.N Ramachandran science Club, MACFAST on 14/09/2020.
- ✚ International Webinar on “Cosmic fireworks: Violent death of exotic stars”, G.N Ramachandran science Club, MACFAST on 10/09/2020.
- ✚ National Webinar on “Content writing masterclass” organized by Academic writing, Deepak Digital on 09/09/2020.
- ✚ International Webinar on “Neuroendocrine regulation of metabolic physiology”, G.N Ramachandran science Club, MACFAST on 05/09/2020.
- ✚ International Webinar on “New Horizon for the chromosome segregation machinery”, G.N Ramachandran science Club, MACFAST on 01/09/2020.
- ✚ International Webinar on “Drosophila and Zebrafish as Human Disease Models”, G.N Ramachandran science Club, MACFAST on 25/08/2020.
- ✚ International Webinar on “Role of Genetic Alterations in Pathogenesis of Papillary thyroid Cancer” Department of Biotechnology, Mar Agusthinose College Ramapauram on 24/08/2020.
- ✚ International Webinar on “E-Resource in Teaching Learning and Research” IQAC, St. Albert's College Ernakulam on 21/08/2020.
- ✚ International Webinar on “Chemistry, Biology and the Unity of Nature”, G.N Ramachandran science Club, MACFAST on 21/08/2020.
- ✚ National Webinar on “Women Empowerment”, Women's cell, Mar Agusthinose College Ramapauram on 19/08/2020.
- ✚ International Webinar on “Antibiotic Resistance: The Next Pandemic”, G.N Ramachandran science Club, MACFAST on 19/08/2020.

- ✚ International Webinar on “Speed Control in Animals: Making and Breaking Rules”, G.N Ramachandran science Club, MACFAST on 18/08/2020.
- ✚ International Webinar on “Epigenetics-Recent trends in Genetics”, Department of Biotechnology, Mar Agusthinose College Ramapauram on 17/08/2020.
- ✚ International Webinar on “Multiple Facets of Gene Regulation: through the Eyes of pseudo exfoliation”, G.N Ramachandran science Club, MACFAST on 17/08/2020.
- ✚ International Webinar on “Life at science”, G.N Ramachandran science Club, MACFAST on 13/08/2020.
- ✚ International Webinar on “Personal Genomics to Precision Medicine Implication for Rare Genetic Diseases”, G.N Ramachandran science Club, MACFAST on 12/08/2020.
- ✚ International Webinar on “Flower evolution in a nutshell”, G.N Ramachandran science Club, MACFAST on 10/08/2020.
- ✚ International Webinar on “Science Communication through SARS-COV-2”, G.N Ramachandran science Club, MACFAST on 05/08/2020.
- ✚ International Webinar on “Going viral: Evolution and spread of SARS-COV-2”, G.N Ramachandran science Club, MACFAST on 01/08/2020.
- ✚ International Webinar on “Science: the joy of figuring things out”, G.N Ramachandran science Club, MACFAST on 23/07/2020.
- ✚ International Webinar on “Cancer Nanotechnology”, G.N Ramachandran science Club, MACFAST on 17/07/2020.
- ✚ National Webinar on “Moodle Platform”, Department of Computer Science, Mar Agusthinose College Ramapauram on 17/07/2020.
- ✚ National Webinar on “Intellectual property Rights”, Department of Biotechnology, Sas SNDP Yogam College Konni on 16 & 17/07/2020.
- ✚ International Webinar on “Progress and pitfalls in COVID-19 Vaccine development”, G.N Ramachandran science Club, MACFAST on 16/07/2020.
- ✚ International Webinar on “Modern Analytical Instrumentation and their Applications in Food Science”, G.N Ramachandran science Club, MACFAST on 15/07/2020.
- ✚ National Webinar on “Cyber Ethics and Youth Relationships”, IQAC, St. Albert’s College on 13/07/2020.
- ✚ International Webinar on “Fundamentals & Regulatory Regulations for Pharmaceutical Industry Beginners and COVID19”, Operant Pharmacy Federation OPFiCON~4, Dreamz College of Pharmacy, Sundernagar on 12/07/2020-13/07/2020.
- ✚ International Webinar on “Cryopreservation strategies for long term conservation of germplasm”, G.N Ramachandran science Club, MACFAST on 13/07/2020.
- ✚ International Webinar on “Science, Biology and the Worlds Future”, G.N Ramachandran science Club, MACFAST on 10/07/2020.

- ✚ National Webinar on “Starting the Startups”, Institution Innovation Council, MES College Marampally on 09/07/2020.
 - ✚ National Webinar on “Role of Institutional values and Green Practices in Accreditation Process”, IQAC FDP, Kuriakose Elias College Mannanam on 07/07/2020.
 - ✚ National symposium on “Frontiers in on Biotechnology” (NSFB) organized by the Department of Biotechnology Bharathiar University, Coimbatore.
 - ✚ National Symposium on “Modern Biological Sciences” Department of Biosciences and research SNMV, Coimbatore, Tamil Nadu.
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Faculty development programs attended (Orientation/Refresher Course/ Workshop/ Short term courses)

- ✚ Faculty Development Programme (FDP) on Contemporary Advances in Biotechnology organized by Department of Biotechnology, National Institute of Technology, Andra Pradesh from 2nd to 6thth November 2020.
- ✚ Faculty Development Programme (FDP) on ADVANCED TRAINING IN ICT-ENABLED ONLINE TEACHING TOOLS conducted by the UGC-MHRD STRIDE Mahatma Gandhi University Kottayam, Kerala, from 12th to 16th October 2020.
- ✚ Faculty Development Programme (FDP) on BIOINFORMATICS FOR BASIC RESEARCH AND TEACHING organized by Centre for Bioinformatics, School of Biosciences, Mahatma Gandhi University, Kottayam, Kerala, from 28/11/2019 -03/12/2019.
- ✚ “Cultivation of Oyster mushroom with paddy straw as substrate, and composting of household waste (kitchen waste) through Vermicomposting” organized by DST IRTC Palakkad, Kerala, India from 11/05/2006 –08/06 2006.

RATHI C R