

JIBY JOHN MATHEW

Designation: Assistant Professor

Qualification: M.Sc.

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PROFILE IN DETAIL

Academic records

- ✚ **M.Sc.** : Biotechnology, Bharathiar University, Coimbatore, 2005.
 - ✚ **Certificate Course:** Academic Writing, SWAYAM Course by HNB Garhwal University, 2021
 - ✚ **PG Diploma** : Computer Applications, IHRD, Puthupally, 2002.
 - ✚ **B.Sc.** : Botany, Mahatma Gandhi University, Kottayam, 2000.
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Teaching / Research / Professional Experience

Years (in total) – 15 years

- ✚ **Name of Institution:** Mar Augusthinose College, Ramapuram
 - ✚ **Position held:** Asst. Professor
 - ✚ **Period (from-to):** 2006 –to present
 - ✚ **Subject handled & Nature of duties:** Teaching the subjects of UG and PG Biotechnology
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Administrative responsibilities held in College Level

- ✚ Coordinator of NAAC
- ✚ Coordinator of Nature Club
- ✚ NSS Programme officer 2008 to 2011
- ✚ Coordinator of Value-Added courses 2017 to 2021

Positions held in university level

- ✚ Chief / Additional Examiner for theory examinations & Practical examination for UG and PG Biotechnology.
 - ✚ Member of examination Board for UG and PG Biotechnology, MG University, Kottayam.
 - ✚ Question setter for university UG and PG Biotechnology, MG University, Kottayam
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Publications in peer reviewed national/international journals

- ✚ “Microbial degradation of polyethylene terephthalate (PET): An outlook study”, Journal of Medicinal Plants Studies, September 2021; 9(5): 31-40, ISSN (E): 2320-3862 ISSN (P): 2394-0530.

- ✚ “Study on phytochemicals and nutritional composition of selected banana cultivars in Kerala”, Journal of Science, Technology and Management, Vol. No. 14, No. 01, January - March 2021, ISSN No: 0974-8334.
- ✚ “By-Products and Value Addition of Banana: An Overview”, International Journal of Current Research and Academic Review, Volume 9 Number 02 Feb 2021. ISSN 2347 3215.
- ✚ “Amylase production by *Aspergillus niger* through submerged fermentation using starchy food byproducts as substrate”, International Journal of Herbal Medicine 2016; 4(6): 34-40, Oct.2016. ISSN: 2394-0514.
- ✚ “Studies on antibacterial properties of stingless bee honey fortified with plant extracts”, International Journal of Herbal Medicine, 4(5): 09-13, 2016 Aug. ISSN: 2321-2187.
- ✚ “Phytochemical Analysis and Invitro Hemostatic Activity of *Mimosa Pudica*, *Hemigraphis Colorata* and *Chromolaena Odorata* Leaf Extracts”, CIBTech Journal of Pharmaceutical Sciences, Vol.5 (3), 2016 July-September, pp.16-34. ISSN: 2319–3891.
- ✚ “Comparative Study of the Activity of Amylase Produced by *Aspergillus Niger* Though Solid-State Fermentation (Ssf) Using Various Starchy Materials”, *Indian Journal of Plant Sciences*, Vol.5 (3) 2016July-September, pp. 79-90. ISSN: 2319–3824
- ✚ “Larvicidal Activity of *Gliricidia Sepium* Leaf Extracts on Mosquito Larvae and Its Lethal Effect on Nontargeted Organisms”, CIBTech Journal of Biotechnology, Vol. 4 (2), 2016 April-June, pp.13-19. ISSN: 2319–3859.
- ✚ “Wine Production from Various Underutilized and Neglected Fruits in Kerala”, CIBTech Journal of Biotechnology, Vol. 5 (2), 2016 April-June, pp.1-14. ISSN: 2319–3859.
- ✚ “Pineapple (*Ananas comosus*) cultivation as an intercrop in rubber replant: effects on soil chemical and physical properties”, IJALS, Vol.7, Issue 4, November - 2014. ISSN 2277 – 758X. ISSN: 2249-2321.
- ✚ “Studies on Pineapple (*Ananas comosus*) cultivation as an intercrop in rubber replant: effects on soil microorganisms”, Science Research Reporter, 4(2):119-127, Oct. – 2014.
- ✚ “Biomass Production and Utilization of Various Lignocellulosic Substrates using Cultivation of Oyster Mushrooms (*Pleurotus spp.*)”, Research Journal of Agricultural Sciences, 5(2): 207-211, March-April (2014), ISSN: 0976-1675.
- ✚ “Studies on Caffeine Content in Various Tea Samples: A Case Study from Kerala”, Journal of Chemical, Biological and Physical Sciences, Vol. 4, No. 2; 901-906, February 2014 – April 2014. ISSN: 2249 –1929.

Published books with ISBN

1. “Analysis of the phylloremediation capability of *Mangifera indica* in hydrocarbon polluted area: a review”, August 2021, Publisher: Amazon Publishers, ISBN 9798459873139.
2. “Microbial Degradation of Polyethylene Terephthalate (PET)”, August 2021, Publisher: Amazon Publishers, ISBN 9798459873139
3. “Isolation of phosphate solubilizing bacteria and construction of a mixed biofertilizer and Assessment of its effect on plant growth”, December 2020, Publisher: Amazon Publishers, USA, ISBN: 9798697569627.

4. "Morphological characterization of edible banana varieties in Kerala (including germplasm collection) and male flower nutritional analysis of selected varieties: an overview", May 2019, Amazon Publishers, USA ISBN:9781071150368, 1071150367.
5. "Green synthesis of copper and zinc nanoparticles using different varieties of banana starch, latex and sap and evaluation of their antifungal activity against *Fusarium oxysporum cubense*", July 2019, ISBN:9781089128670, 1089128673.
6. "Morphological characterization and nutritional analysis (leaf and pseudostem) of selected banana varieties in Kerala: an overview", May 2019, Amazon Asia-Pacific Holdings Private Limited, ASINB07SJ5KGBV, ISBN:9781070898278, 1070898279.
7. "Wine production from vegetables and preliminary component analysis: an overview", 2019, ISBN:9781709797835, 1709797835.
8. "Green synthesis of copper and zinc nanoparticles from plant extracts and evaluation of their antifungal activity against *Fusarium oxysporum cubense*: an overview", April 2019, Independently Published, ISBN:9781095343852, 1095343858.
9. "Comparative study using banana peel and male flower as substrates for amylase production using *Aspergillus niger* in Kerala: an overview", 2018, Amazon Publishers, USA, ISBN:9781074447601, 1074447603.
10. "Industrial Biotechnology: An Introduction", May 2018, Independently Published, ISBN:9781983024276, 1983024279.
11. "Morphological, molecular and biochemical characterization of selected banana varieties in Kerala and evaluation of their anticancer activities: an overview", 2018, Prem Jose, ISBN:9781653756582, 1653756586.
12. "Morphological Diversity of Jackfruit (*Artocarpus Heterophyllus*) Varieties in Kerala", Independently Published, November 2018, Amazon Digital Services LLC - KDP Print US. ISBN-13: 978-1731464101
13. "Molecular Phylogenetic Studies of Bitter Gourd (*Momordica charantia*) and Ivy Gourd (*Coccinia grandis*) and Family Comparison Using Rbcl Sequence Analysis", March 2017, Grin Publishing, ISBN: 9783668382640.
14. "Isolation and Molecular Characterization of Glyphosate Resistant Bacteria from Agricultural Soils in Kerala", April 2017, ISBN-13: 9783668424494.
15. "Isolation and Molecular Characterization of Dye Tolerant Bacteria from Dye Contaminated Soil in Kerala", June 2017, Grin publishing, ISBN-13:9783668446885
16. "Isolation of Phosphate Solubilising Bacteria from Rhizosphere of Different Black Pepper (*Piper Nigrum*) Varieties in Kerala", July 2017, Grin Publishing, ISBN-13: 9783668476264, ISBN-10: 3668476268
17. "Studies on Genetic Relationships Among Six Varieties of Jackfruit in Kerala Employing the "Matk" Gene Using PCR Technique and Rflp Markers", January 2017, Grin Publishing, ISBN-13: 9783668380615
18. "Molecular Phylogenetic Studies of Pumpkin (*Cucurbita Argyrosperma*) and Winter Melon (*Benincasa Hispida*), March 2017, Grin Publishing, ISBN-13: 9783668383432
19. "Soil Properties and Enzymatic Characterization of Jackfruit (*Artocarpus Heterophyllus*) Varieties in Kerala", February 2017, Grin Publishing, ISBN-10: 3668376573, ISBN-13: 978-3668376571

20. "Studies on Genetic Relationships Among Locally Cultivated Musaceae Varieties in Kerala Employing Rbcl and Matk Gene Using PCR Technique and Rflp Markers ", July 2017, Grin Publishing, ISBN-10: 3668482624, ISBN-13: 978-3668482623
21. "Phytochemical Analysis and Cholesterol Lowering Efficiency of Averrhoa Carambola Linn (Star Fruit)", July 2017, Grin Publishing, ISBN-10: 3668479453, ISBN-13: 978-3668479456.
22. "Cholesterol lowering effect of Tamarind (Tamarindus indica)", September 2017, Grin Publishing, ISBN-10: 3668511683, ISBN-13: 978-3668511682
23. "Studies on Genetic Relationships Among Locally Cultivated Citrus Varieties in Kerala Employing Matk and Rbcl Gene Using PCR Technique and Rflp Markers", ISBN-10: 3668480842, ISBN-13: 978-3668480841.
24. Molecular Phylogenetic Studies of Pumpkin (*Cucurbita Argyrosperma*) and Winter Melon (*Benincasa Hispida*) March 2017, Grin Publishing, ISBN-10:366838343X, ISBN-13:978-3668383432
25. "Molecular Phylogenetic Studies of Bitter Gourd (*Momordica Charantia*) and Ivy Gourd (*Coccinia Grandis*) and Family Comparison Using Rbcl Sequence Analysis", March 2017, Grin Publishing, ISBN-10: 3668382646, ISBN-13: 978-3668382640.
26. "A Comparative Study on Traditional Herbal Medicines of Mannans (Tribal Group in Idukki, Kerala) for the Treatment of Diabetes", February 2017, ISBN-10: 3668379742, ISBN-13: 978-3668379749
27. "Phytochemical Analysis of Fruit Extracts of *Baccaurea Courtallensis* and Evaluation of Cholesterol Lowering Property", July 2017, Grin Publishing, ISBN-10: 3668486581, ISBN-13: 978-3668486584
28. "Wine production from vegetables and preliminary component analysis: an overview", 2017, Grin Publishing, ASIN: B081RKS1CX
29. "Evaluation of Genetic Diversity of Jackfruit (*Artocarpus Heterophyllus* Lam) Varieties Based on Sequence Analysis of the Rbcl Gene", February 2017, ISBN-10: 3668383294, ISBN-13: 978-3668383296.
30. "Invitro solubilization of inorganic Phosphate by microorganisms: Impacts on growth of crop plants", LAP LAMBERT Academic Publishing, ISBN-10: 3659969435, ISBN-13: 978-3659969430.
31. "Anti-Acne Activity of Medicinal and Herbal Sources.", Grin Publishing, ISBN-10: 3668540624, ISBN-13: 978-3668540620
32. "Isolation, Characterization and Optimization of Dye Degrading Bacteria from Natural Source", July 2017, Grin Verlag, ISBN-10: 3668478600, ISBN-13: 978-3668478602
33. "Phytochemical Characterization of *Averrhoa Bilimbi* and in Vitro Analysis of Cholesterol Lowering Effect on Fatty Food Materials", August 2017, Grin Publishing, ISBN-10: 3668498865, ISBN-13: 978-3668498860
34. "Antimicrobial and Phytochemical Analysis of Lime Juice and Different Types of Honey. an Overview", July 2017, Grin Verlag, ISBN-10: 3668476780, ISBN-13: 978-3668476783.
35. "Phytochemical Profiling of *Garcinia Gummi-Gutta* (Malabar Tamarind) and in Vitro Analysis of Cholesterol Lowering Effect" July 2017, Grin Publishing, ISBN-10: 3668474222, ISBN-13: 978-3668474222.
36. "The Honey Apple and Its Phytochemical Analysis", June 2017, Grin Publishing, ISBN-10: 3668470073, ISBN-13: 978-3668470071

37. "Morphological Diversity, Nutritional Quality and Value Addition of Jackfruit (*Artocarpus Heterophyllus*) in Kerala", July 2017, Grin Verlag, ISBN-10: 3668461767, ISBN-13: 978-3668461765
38. "Behavior of Salivary Amylase in Various Reaction Environments with Reference to Km and Vmax. an Overview", June 2017, Grin Verlag, ISBN-10: 3668458421, ISBN-13: 978-3668458420
39. "Isolation and Molecular Characterization of Dye Tolerant Bacteria from Dye Contaminated Soil in Kerala", June 2017, Grin Verlag, ISBN-10: 3668446881, ISBN-13: 978-3668446885
40. "Isolation and Molecular Characterization of Glyphosate Resistant Bacteria from Agricultural Soils in Kerala", April 2017, Grin Publishing, ISBN-10: 3668424497, ISBN-13: 978-3668424494
41. "Studies on Genetic Relationships Among Six Varieties of Jackfruit in Kerala Employing the Matk Gene Using PCR Technique and Rflp Markers", January 2017, ISBN-10: 3668380619, ISBN-13: 978-3668380615
42. "Green synthesis of copper and zinc nanoparticles using different varieties of banana starch, latex and sap and evaluation of their antifungal activity against *Fusarium oxysporum cubense*", ASIN B07W5YNPX6, Amazon Asia-Pacific Holdings Private Limited.
43. "Comparative study using banana pseudostem and leaf vein as substrates for amylase production using *Aspergillus niger* in Kerala: an overview" ASIN B07SWSPRBL
44. "Characterization and nutritional analysis of commonly cultivated banana varieties in Kerala: an overview" ASIN B07SFTTQT" V.
45. "Health Aspects and Food Safety in Urban and Peri-Urban Agricultural Production in India. Farms and Railway Gardens Across the Mumbai Metropolitan Region", December 2016, Grin Publishing, ISBN-13: 9783668347946.
46. "Health Aspects and Food Safety in Urban and Peri-Urban Agricultural Production in India. Farms and Railway Gardens Across the Mumbai Metropolitan Region", December 2016, ISBN-10: 3668347948, ISBN-13: 978-3668347946
47. Comparative study on optimization of cellulase production: Lignocellulosic substrates using *Aspergillus niger*", November 2016, ISBN-10: 3330006234, ISBN-13: 978-3330006232.
48. "Chemical characterization and challenges: urban and peri-urban agricultural production systems in the Mumbai Metropolitan Region (MMR); an overview", October 2016, LAP LAMBERT Academic Publishing, ISBN-10: 3659973432, ISBN-13: 978-3659973437.

Paper presentations in Seminars/Conferences/Symposium

1. "Isolation of Nitrogen Fixing Bacteria and Development of Biofertilizer" (with Sajeshkumar N.K., Jissmon Thomas) International Conference on Homeopathy & Phytomedicine (IHP), 2020, Department of Biochemistry, St. Thomas College pala.
 2. Presented a poster in Bio Revolutions '04, National Symposium, Kongunadu Arts and Science College, Coimbatore. 2004 September 13,14.
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Seminars/Conferences/Symposium/ Workshop/ Webinar attended

- ✦ Webinar on “FAT Intrabody Communication” organized by Department of Electronics , MA College Ramapuram on 18th December 2020.
 - ✦ International webinar on “Frontiers in Biosciences” organized by the department of Biosciences, MES College Marampally, Aluva, Ernakulam, Kerala from 29th July to 3rd August 2020.
 - ✦ Faculty Skill Development Programme on NAAC Guidelines organized by IQAC, BVM Holy Cross College, Cherpunkal on 22nd August 2020.
 - ✦ International Webinar on Covid 19 and Cardiovascular Diseases: Immunology and Future jointly organized by Department of Biotechnology and IQAC, St.Peter’s College, Kolenchery on 06-08-2020.
 - ✦ “Patent Protection challenges and strategies in India” conducted by The Frontiers Legal and Turnip Innovations on 25th July 2020.
 - ✦ National seminar on “Bioscience” IGCAS, Kothamangalam 2007
 - ✦ National Symposium “Bio Revolutions” organized by Kongunadu Arts and Science College, Coimbatore, September 13,14 2004.
 - ✦ UGC sponsored national conference on “Current Trends in Biological Scenario” organized by Vellalar College for Women, Erode on August 11, 12 2004.
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Faculty development programs attended (Orientation/Refresher Course/ Workshop/ Short term courses)

- ✦ Faculty Development Programme (FDP) on *Entrepreneurship Skill Development* organized by Business Innovation and Incubation Centre (BIIC) under the UGC Scheme for Trans-Disciplinary Research for India’s Developing Economy (STRIDE), Mahatma Gandhi University, Kottayam, Kerala, from 23rd to 28th November 2020.
- ✦ Faculty Development Programme (FDP) on *Online Education in Higher Education Institutions* conducted by the Faculty Development Centre of the Kerala State Higher Education Council (KSHEC), Thiruvananthapuram through online mode from 13th to 17th July 2020 for the faculty members from *science* disciplines in the state universities and affiliated colleges.
- ✦ MOOC course on “**Online Learning and Development**” organized by FLAIR Kerala, Directorate of Collegiate Education, Kerala from 18th April to 2nd May 2020.
- ✦ National level workshop on “*In Vitro Techniques in Plantation Crops*” organized by Central Plantation Crops Research Institute, Kasaragod from 15th to 24th January 2009.

Jiby John Mathew

