

RESUME

Dr. Krishnakumar J

Head & Assistant Professor

Department of Botany

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RESEARCH EXPERIENCE

Dissertation (M.Sc) : Anti-bacterial and Preliminary Phytochemical Investigation of *Anisomeles indica* and *Boerhavia diffusa*.

Dissertation (M.Phil) : Phytochemical and Antimicrobial analysis of *Clausena austro-indica*
B.C. Stone and K.N. Nair (Rutaceae)

Thesis (Ph.D) : DNA Barcoding, Phytochemical, Antimicrobial and Antioxidant Studies in
Selected Species of Rutaceae

WORKING EXPERIENCE

| S.No. | Destination | Institution | Year |
|-------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1. | Environmental coordinator | The Anglade Institute of Natural History, Sacred Heart College, (Senbaganur), Kodaikanal. | 2009-2011 |
| 2. | Junior Research Fellow (ISRO NCP VCP Phase II) | The Rapinat Herbarium and Centre for Molecular Systematics St. Joseph's College (Autonomous) Tiruchirappalli 620 002 Tamilnadu INDIA | 2014-2015 |
| 3 | Assistant Professor | Mary Matha college of Arts and Science, Periyakulam Theni Dt | 2016-19 |
| 4 | HOD & Assistant Professor | Mary Matha college of Arts and Science, Periyakulam Theni Dt | 2019-2023 |
| 5 | Coordinator in Nature Club | Mary Matha college of Arts and Science, Periyakulam Theni Dt | 2021-2023 |
| 6 | Assistant Professor | Cardamom Planters' Association College, Bodinayakanur ,Theni Dt | From 2023 |

EXPERTISE

DNA Sequencing, Plant Tissue Culture Technique, Antimicrobial Techniques, Microscopic Techniques, Antioxidant, Taxonomy, Herbarium Preparation, and Phytochemical Techniques.

INTERNATIONAL JOURNALS PUBLISHED

1. **J. Krishnakumar** and Dr.S. John Britto. 2014. Preliminary Phytochemical Analysis of *Clausena austro-indica* B.C.Stone and K.N. Nair (Rutaceae). *International journal of Biological Science*. 45-49
2. **J.Krishnakumar**, Dr.S. John Britto and M. ThamacinArulappan. 2014. Preliminary Phytochemical analysis of *Clausena austro-indica* B.C.Stone and K.N. Nair. *Murraya paniculata* (L.) Jack and *Atalantia recemosa* Wt. (Rutaceae). *International Journal of Biology, Pharmacy and Allied Science*. **3** (4).2441-2447
3. Thamacin AM, Britto JS, Sinjumol T, Mariat G, Immanuel SM, **Krishnakumar J**, Raphael RM. 2014. Phytochemical Evaluation of the Ethanolic and Aqueous Extracts of *Ormocarpumsennoides*(Willd) Dc. Prodr. (Leaf), *Zehneriascabra* (L. F.) Sond. (Tuber) and *Bauhiniatomentosa*Linn. (Leaf), *International Journal of Pharmaceutical Sciences Review and Research*, **28**(1): 22-25
4. **J.Krishnakumar**, Dr.S. John Britto and M. ThamacinArulappan, M. Immanuel Sagayaraj.2015. Preliminary Phytochemical screening of *Pleiospermium alatum* (wight & arn) *Toddalia asiatica* (l.) Lam., *Atalatia wightii* Yu. Tanaka. *International Journal of Advances in Pharmacy, Biology and Chemistry*. **4** (1). 126-130
5. M. Immanuel Sagayaraj, S. John Britto, M. Thamacin Arulappan, **J. Krishnakumar**, Sinjumol Thomas and Mariat George. 2014. Antimicrobial studies and phytochemical screening of the leaves in *Tiliacoraacuminata* (Lam.) Hook. & Thomson and *Diploclisiaglaucescens* (Blume) Diels.(MENISPERMACEAE). *Asian Journal of Pharmaceutical Research*, Vol**4**, Issue 2, 82-86.
6. M. Immanuel Sagayaraj, S. John Britto, M. ThamacinArulappan, **J. Krishnakumar**, Sinjumol Thomas, Mariat George.2015. Antibacterial studies and phytochemical screening of the leaves of *Stephania japonica* (Thunb). Miers and *Cocculushirsutus* (L.) Diels (MENISPERMACEAE). *European Journal of Biomedicaland Pharmaceutical Sciences* 2015, Volume **2**, Issue 1, 201-209.
7. Dr. S. Jenifer, J. Shanofer, S. Priya, **J.Krishnakumar**. 2015. Antimicrobial Screening of *Acalypha indica* and *Andrographis paniculata*- Comparative study. *International Journal of Universal Pharmacy and biosciences*. **4** (1). 24-28.
8. Dr. S. Jenifer, J. Shanofer, S. Priya, **J.Krishnakumar**. 2015. Studies on Biodegradation of Synthetic Dyes by *Niessiriasica*, *Trichthecium* and *Helminthosporium*. *International Journal of Universal Pharmacy and biosciences*. **4**(1). 29-34.

9. Dr. S. Jenifer, J. Shanofer, S. Priya, **J.Krishnakumar**. 2015. Studies on the Biodegradation of Hydrocarbons using *Pseudomonas aeruginosa* and *Aspergillus niger*. *Research & Reviews: A Journal of Pharmacognosy*. **2** (1). 11-13.
10. Dr.Iruthaya Kalai Selvam S, Dr. Nirmala. T. and **J. Krishnakumar**.(2015) Effect of probiotic bacteria (*Lactobacillus rhamnosus*) on the survival, growth and immune responses of the fresh water prawn *Macrobrachium idea*. *Int. J. Phar. & Biomed. Rese*. **2** (3): 1-7

NATIONAL CENTRE FOR BIOTECHNOLOGY INFORMATION

GenBank Accession (USA)

1. *Atalantia racemosa* RHT 56230 tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast:
GenBank: KJ641526.1
2. *Clausena austroindica* voucher RHT 56222 tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast
GenBank: KJ641525.1
3. *Murraya paniculata* voucher RHT 56226 tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast
GenBank: KJ641529.1
4. *Naringi crenulata* voucher RHT 56234 tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast
GenBank: KJ641528.1
5. *Pleiospermium alatum* voucher RHT56231 tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast
GenBank: KJ641535.1
6. *Toddalia asiatica* voucher RHT 56233 tRNA-Leu (trnL) gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, partial sequence; chloroplast
GenBank: KJ641527.1

PROGRAM CONDUCTED

1. KERL FEST-2017 intercollegiate Meet (22nd Feb 2017)
2. Environmental Biotechnology- 2019 intercollegiate Meet (5th March 2019)
3. Marine Biotechnology – 2020 intercollegiate Meet (6th March 2020)
4. National level webinar - Journey of *Caenorhabditis elegans*: Trends in Biotechnology (13.08.2021)
5. Departmental level seminar - The gut microbiome and brain health (26.04.2022)

6. One day Training on “**Vermicompost Cultivation and post Harvesting Technique**” associated with Barath Agrotech on **30th August 2022**
7. **Biofest 2023 Inter College Meet (18th march 2023)**
8. One day Training on “**Vermicompost Cultivation and post Harvesting Technique**” on 04th Feb 2024

COLLOQUIA ATTENDED

1. **Work-Shop** on Microbiological and Phytochemical Techniques – St. Joseph’s College on 18.12.2013.
2. **Paper Presentation (Oral)** on National Conference on Advances in Biology, UGC Sponsored Conference, St. Joseph’s College on 6.1.2014 – 7.1.2014.
3. **Work-Shop** on **Plant Tissue Culture Techniques-** St. Joseph’s College on 22.12.2014.
4. **Work-shop** on **Next generation on sequencing-** St. Joseph’s College on 10.09.2015
5. **Online Seminar on outcome based learning approach in Higher Education** – Kristu Jayathi college Bangalore on 22th April to 30th April 2020
6. **Online Seminar on “SARS-CoV-2 Research: Insights from Computational Biology”** - Kristu Jyathi college Bangalore on 11th May to 15th May 2020
7. **Online Seminar on “Triggering Skill Development for Young Biologists”-** Vivekandha College of Arts and Science for Women on 18/05 to 22/05/2020
8. **Online webinar on “ Surviving COVID- 19 The Future Perspective”-** RIZVI College of Arts, Science & Commerce, Mumbai on 27/ 05/ 2020
9. **Online webinar on “Cancer Care in the COVID- 19”-** Vellasamy Nadar College, Madurai on 28/5/2020
10. **Online webinar on “Waste Water Treatment”** – St. Joseph’s Institute of Technology, Chennai on 30/05/2020
11. **Online webinar on “Shola Forest: A Paradise for Biodiversity”-** Bishop Heber College, Trichy on 30/08/2020
12. **Online webinar on “Recent Trends in life sciences”** – GTN Arts and Science college, Dindugal on 20/07/2020
13. Online webinar on “**International Virtual leature workshop on Bio –nano interface for Covid -19** ” organized by department of Microbiology, Thigarajar College, Madurai on 31/05/2020

14. Online Faculty development Programme on “**Challenges for college teachers in new Educational Scenario**” on 06/ 06 / 2020
15. National Level webinar programme on “**Stem Cell Therapy (Past, Present, Future)**” organized by the Department of Biochemistry , SLS. MAVMM. Ayria Vaisyer College, Madurai on 05 / 06 / 2020
16. **International Webinar on Mushrooms-Nature’s Gift** organized by the Department of Microbiology, K .R .College of Arts & Science , Kovilpatti on 24/ 06/ 2020
17. **National webinar on “Essential Skills And Qualities Of Teachers”** organised by Department of Business Administration, Sri Krishnasamy Arts and Science College, Mettamalai, Sattur on 19.06.2020.
18. Online Faculty Development Programme on “**E-Content Creation and Online Learning Management System**” organised by Department of Computer Science from Mary Matha college of Arts and Science, Periyakulam on 16/ 06/ 2020 to 20 / 06/ 2020
19. **International Webinar on ‘Biodiversity and Wildlife Conservation’** organized by Department of Zoology, Sant Gadge Baba Amravati University, Amravati on 30th May, 2020.
20. **online Faculty Development Programme on “Programming the Mind with Creative Visualization”** Mary Matha college of Arts and Science, Periyakulam on 5/ 06 / 2020
21. **International Webinar Conference on Biomaterials on Healthcare Application** conducted by Department of Biotechnology, Karunya Institute of Technology and Sciences during May 28 - 30, 2020
22. Webinar entitled ‘**Intervention of alternative medicine for tackling and controlling COVID-19**’ organized by Centre for Molecular and Nanomedical Sciences, Sathyabama Institute of Science and Technology, Chennai. on 29.06.2020
23. International webinar on “**FTIR & HPL Instrumentation**’ Organized by Department of Biochemistry, Raja Serfoji Govt. College, Tanjuvur on 27 / 06 / 2020
24. **National level online Seven Day Faculty Development Programme on “Revised Accreditation Framework (RAF)” of NAAC- A Paradigm Shift for Strategic Enhancement of Higher Education in India** organized by IQAC of Rajapalayam Raju College, Rajapalayam on 08/ 06/ 2020 to 15 / 06 /2020
25. **One day International Webinar on “Translational Imaging”** organized by the Department of Zoology and Research Centre, Aditanar College of Arts and Science, Tiruchendur on 06.07.2020.

26. **International Webinar Series on “COVID-19: Facing Challenges with Optimism” as part of the Five Day Faculty Development Programme** organised by the PG and Research Department of Historical Studies, Quaid-E-Millath Government College for Women, Chennai, on from 8-6-2020 to 12-6-2020
27. **National Webinar on “Impact Of COVID-19 On Biodiversity & UNEP’s Tide Turners Plastic Challenge” Organised** by Department Of Zoology **St. Pious X Degree & Pg College For Women & Genetics** in Collaboration with WWF India, Hyderabad Office
28. **Online Webinar on “Plant Derived Antiviral Compounds as Possible Drug Targets again COVID -19 ”**organized by the **Departments of Physics , Chemistry and Plant Biology & Plant Biotechnology, Thiruthangal Nadar College , Chennai**, on 25 May, 2020 .
29. **Four days digital interaction series on the occasion of “World Environment Day 2020 “Organized by ENVIS RP – Centre for Coastal Zone Management and Coastal Shelter Belt, Institute for Ocean Management, Anna University, Chennai and Ministry of Environment, Forest and Climate Change, Government of India** on from 02.06.2020 to 05.06.2020.
30. Participated One Day National Webinar on **Safety Foods for Healthy life on 9th November 2022** organized by Department of Biotechnology, Mary Matha College of Arts and Science, Periyakulam
31. Participated Online Quiz on **“World Soil Day” on 5th December 2022** Organized by **Department of Microbiology, Kumararani Meena Muthiah College of Arts and Science Chennai**
32. Participated and successful completion of the **National level E- Quiz on “World Pnemonia Day” on 12th November 2022** organized by **Justice Basheer Ahmed Sayeed College for Women, Chennai**
33. Participated **“Two days National Conference on Millets”** during 16/03/2023 to 17/03/2023 organized by **Department of Food & Dairy Technology , Mannar Thirumalai Naicker College, Madurai.**
34. Seven day Faculty development programme on **“Skill Development for effective Teaching, Learning, Evaluation and Research** organized by Mary Matha college of Arts and Science, Periyakulam on 13/ 04 / 2023 to 19/04/2023

35. Invited as **External Examiner** for the conduct of UG External practical examination on **13th October, 2023** at PG Research Centre of Zoology, Jayaraj Annapackiyam College for Women (Autonomous) Periyakulam
36. Participated **Two Days Workshop on Wetland Birds Census** on **27 & 28 January, 2024** organized by District Forest Department Theni Dt
37. Invited as **Guest Lecture on Forest Diversity & Conservation** as organized by Department of Zoology on **08th February, 2024** at Thiravium College of Arts And Science for woman Periyakulam

PERSONAL PROFILE

Date of Birth : 29.06.1986

Gender : Male

Nationality : Indian

Languages Known : Tamil, English and Malayalam

PROFILE / Skills

- Excellent Communication Skill
- Able to work independently as well as in Team Environment
- Motivated with excellent Time Management
- Ability to handle Stress and Conflict
- Zealous and eager to learn new techniques
- Excellent Initiator