

CURRICULUM VITAE



RAGHAVAN KUPPU
Assistant Professor
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Working Experience

- ✓ Working as an **Assistant Professor** on Department of Biochemistry, in Sourashtra College (Self-Financing), Madurai – 625004, from -17.06.2019 to till date.
- ✓ Worked as a Research Fellow (**JRF** - 2 year and **SRF** - 9 months) in DST – **SERB** Sponsored Project “*Effect of anthropogenic activities on water quality, genetic diversity and composition of freshwater murrel fishes in Tamil Nadu - Mitochondrial DNA Approach*” during December 2013 – September, 2016.

Additional Responsibilities

- ✓ Served as Convenor in **Two-Day Workshop on Bioentrepreneurship** held on 18th & 19th October 2023 Organized by Department of Microbiology, Sourashtra College (Autonomous), Madurai – 625004.
- ✓ Served as Convenor in **One-Day Brainstorming Session on Bioinformatics for Beginners** held on 1st November 2023 Organized by Department of Biochemistry, Sourashtra College (Autonomous), Madurai – 625004.
- ✓ Serving as **National Service Scheme (NSS) – Programme Officer** Unit No – 33, in Sourashtra College (Self-Financing), Madurai – 625004, from -19.06.2023 to till date.

Academics

Degree	Subject	Name of the Institution/University	Duration	Class
Ph.D.	Biotechnology	Madurai Kamaraj University	2014-2019	Awarded
M.Sc.,	Biotechnology	Manonmaniam Sundaranar University, Alwarkurichi.	2010-2012	First
B.Sc.,	Biotechnology	SRM Arts and Science College, Chennai	2007-2010	Second

Completed Ph.D. in Biotechnology - Madurai Kamaraj University (Reg. No F9366 and Date 18/06/2014) [viva - voce Examination held on 15th April, 2019] under the guidance of Dr. U. Ramesh, Assistant Professor, Department of Molecular Biology, School of Biological Sciences, Madurai Kamaraj University, Madurai, Tamilnadu, India

Title of the Ph.D. Thesis

“Evaluation of Physico - Chemical parameters in major Southern Tamilnadu Rivers and their impact on phylogeography of murrel fishes Channa striata and Channa punctata”

Title of the M.Sc., Thesis

“Antidiabetic Activity of *Spirulina* (Cyanobacterium) Extract On streptozotocin Induced Type 1 Diabetic Rats and Analysis of Antioxidant Oxidative Stress.”

Publications

A. Papers Published

Research Articles

1. **Raghavan Kuppup**, Shobana Manoharan and Ramesh Uthandakalaipandian. (2019). Phylogeographic Study of Freshwater Fish *Channa striata* (Bloch) and *Channa punctata* (Bloch) Construed Using DNA Barcodes Between Three Rivers in Southern Tamil Nadu Region, India. *Proceedings of the Zoological Society* 73, 59–67 (2020). <https://doi.org/10.1007/s12595-019-00299-1>
2. Shobana Manoharan, **Raghavan Kuppup**, and Ramesh Uthandakalaipandian. (2019). Deciphering the morphological and molecular characteristics of fresh water fish *Lepidocephalus thermalis* (V.) - DNA barcode approach. *Indian Journal of Experimental Biology*, 57(08), 573-579. <http://nopr.niscair.res.in/handle/123456789/49548>
3. Shobana Manoharan, **Raghavan Kuppup**, and Ramesh Uthandakalaipandian. (2019). Comparative Assessment of Nutritional Composition in Raw and Cooked Indian Freshwater Fish *Lepidocephalus thermalis* (V.), *Proceedings of the Zoological Society*, 72(2), 154–159. <https://doi.org/10.1007/s12595-017-0249-4>
4. **Raghavan Kuppup**, Shobana Manoharan and Ramesh Uthandakalaipandian. (2018). "A study on the impact of water quality on the murrel fish *Channa striata* and *Channa punctata* from three major Southern Tamilnadu rivers, India " *RSC Advances* 8, 11375–11387.
5. Shobana Manoharan, **Raghavan Kuppup**, and Ramesh Uthandakalaipandian. (2017). Bioprospecting the Anti-microbial Properties of *Lepidocephalus thermalis* (V.). *Journal of Biologically Active Products from Nature* 7(4), 270-277.

6. **Raghavan, K** and Ramesh, U. (2015). Quality assessment of water samples from the perennial river Thamirabarani: a physio-chemical parameter analysis. *Journal of Research in Ecology*. 2(2), 115-122.

Review Articles

7. **Raghavan Kuppu**, Shobana Manoharan and Ramesh Uthandakalaipandian. (2017). Application of DNA Barcoding in Taxonomy. *Everymans Science* 52(4), 263-265.
8. Shobana Manoharan, **Raghavan Kuppu**, and Ramesh Uthandakalaipandian. (2016). How to manage aquaculture and horticulture together? Aquaponics. *Everymans Science* 51(4), 263-265.

Book Chapters

9. Shobana M, **Raghavan K** and Ramesh U. (2017). Role of Biotechnology in Food Authentication. **Biotechnology for Sustainability**. AIMST University, Malaysia. pp 51 - 57. **ISBN: 978-967-14475-3-6; e - ISBN: 978-967-14475-3-9.**
10. Shobana M, **Raghavan K** and Ramesh U. (2015). Molecular Markers and their application in Aquaculture, Department of Biotechnology, School of Biotechnology and Health Sciences, Karunya University, Coimbatore. **ISBN No: 9789380485751**
11. **Raghavan K** and Ramesh U. (2015). Comparative Study of N-3 Fatty Acids in Selected Marine and Fresh Water Fishes in India. Paper presented at the National Seminar on January 22 -23 “**Conservation and Sustainable Utilization of Marine Resources**” 1(1): 94-99, 2015, **ISBN-978-81-927330-7-4.**

Number of Nucleotide Submissions

NCBI Genbank	: 2
EMBL	: 1
DDBJ	: 1
BOLD	: 18

B. Resource person / Refresher Course

Resource person

1. **Dr. K. Raghavan** served as a Technical Resource Person for the Hands on Training Workshop “Molecular Biology, Microbiology and Immunology Techniques” at the Department of Biochemistry, V.V.Vanniyaperumal College for Women (Autonomous), Viruthunagar on 19-20th September, 2019.

2. **K. Raghavan** Served as a **Technical Resource Person** for the State Level Training Workshop on Molecular Biology Techniques held during **January 19 & 20, 2018** at V.V.V. College for Women, Virudhunagar in collaboration with Medox biotech Pvt. Ltd. Chennai.
3. **K. Raghavan** Served as a **Technical Resource Person** for the UGC - Networking Resource Centre in Biological Sciences during XXXVI Winter School on Advances in Fish Biology and Genotoxicity held during **March 15-28, 2017** at MKU.

Refresher Course

1. Participated in the Annual Refresher Programme In Teaching (ARPIT) – 2020. Refresher Course on **“Pedagogical Innovations and Research Methodology (Interdisciplinary)”** on 01st October 2019 to 31st January 2020 (16 weeks), organised by the Swayam Portal, AICTE approved FDP course sponsored by MHRD Govt. of India.
2. Participated in the fourteen-day Refresher Course on **“Science Academies Refresher Course in Water”** on 16th to 29th November 2015, organized by the Field Marshal K.M. Carippa College, Madikeri, Kodagu, Karnataka, India.

C. Papers Presented in Seminar/ Symposia

1. **Raghavan K**, (2020), presented a paper **“GC-MS based lipid analysis in freshwater murrels *Channa punctata* and assessment of their antimicrobial properties”** at One Day **“National Conference on Environmental Sustainability Health and Pollution Abatement (NCESHPA – 2020)”**, held on 2nd March 2020, organized by Department of Zoology, M.S.S. Wake Board College, Madurai.
2. **Raghavan K**, (2019), presented a best poster in five days **“Phylogeography and Nutraceutical importance of Murrel fish *Channa striata* and *Channa punctata* from River of South Tamil Nadu, India.”** at **106th Indian Science Congress 2019**, held at Lovely Professional University, Phagwara, Jalandhar. during 3rd – 7th January, 2019.
3. **Raghavan K*** Shobana M and Ramesh U, (2017), presented a paper in Two Days **“Morphometric, Meristic and Molecular Characterization of *Channa Sp.* From Cauvery River, Tamil Nadu”** **National Conference on Recent Trends in Modern Biology & 48th Aqua – Terr Annual Conference** on 27th to 28th February 2017, School of Biological Sciences, Madurai Kamaraj University, Madurai, Tamil Nadu, India.
4. **Raghavan K*** Shobana M and Ramesh U, (2017), presented a paper **“Diversity study of *Channa sp.* from Vaigai River, Tamil Nadu”** at **104th Indian Science**

Congress 2017, held at Sri Venkateswara University, Thirupathi during 3rd – 7th January, 2017.

5. **Raghavan, K***. Shobana, M. and Ramesh, U. (2016). **Genotoxicity study using Micronuclei assay in *Channa punctata* of Vaigai River, Madurai, Tamil Nadu at 9th NABS National Conference on New Biological Researches: Opportunities and Challenges for Sustainable Development** held on August 11 and 12, 2016 at School of Energy, Madurai Kamaraj University, Madurai.
6. **Raghavan, K***., Shobana, M. and Ramesh, U. (2016). Detection of Genetic Variation in *Channa* sp. from Vaigai and Cauvery River - Molecular Approach at Inter National Conference on “Challenges and Opportunity” held on 5 and 6th April 2016 at Department of Zoology, **Sri Meenakshi Government Arts College for Women, Madurai – 02**
7. **Raghavan K*** Shobana M and Ramesh U, (2016), presented a paper in Two Days **Assessment of Water Quality in Vaigai River, Tamil Nadu by Analysing the Physico – Chemical Parameters “National Conference on Recent Trends in Modern Biology & 47th Aqua – Terr Annual Conference”** on 27th to 28th February 2016, School of Biological Sciences, Madurai Kamaraj University, Madurai, Tamilnadu, India.
8. **Raghavan K*** Shobana M and Ramesh U, (2016), presented a paper in Five Days **“Physico - chemical Parameter analysis of Water quality in Cauvery River (Tamil Nadu) India”** at **103rd Indian Science Congress 2016**, held at University of Mysore during 3rd – 7th January, 2016
9. **Raghavan K*** Shobana M and Ramesh U, (2015), presented a poster in One Day National Symposium **“BIOGALAXIA’15”** *In silico* Analysis of COX from *Channa Striata* held on December 18, 2015 at Bharathiar University, Coimbatore, Tamil Nadu, India.
10. **Raghavan, K***., Emmanuel Joshua Jebasingh, S, and Ramesh, U. (2014). Anti-diabetic Activity of spirulina (*Arthrospira platensis*) on Streptozotocin Induced Type 1 Diabetic Rats. Paper presented at the National Seminar on **“Biovision – Recent trends and future perspectives of biosciences”** 5th and 6th September 2014. Arumugam Pillai Seethai Ammal College, Thirupathur.

D. Faculty Development Program

1. Participated in the Five Days - AICTE Training and Learning (ATAL) Academy Online Elementary on **“Genome Engineering for Environment”** from 23-27th August 2021 at Indian Institute of Technology Guwahati.

E. Workshop/Seminar/Webinar/Training course Participated

1. Participated in the Three-day National Level Workshop on “**In-Silico Tools for Computer -Aided Drug Design (i-CADD)**” held on 29th, 30th November & 1st December 2023, jointly organised by Department of Chemistry & Zoology, Lady Doak College, Madurai and Department of Physical Chemistry, Madurai Kamaraj University, Madurai.
2. Participated in the Two-day workshop on “**Single-Cell Omics**” held on 12-13th October 2023, organized by Aravind Medical Research Foundation (AMRF), Madurai.
3. Participated in the Two-days “**4th International Conference on Genome Biology and 54th Annual Aqua-Terr Day Celebration**” held on 28.02.2023 to 01.03.2023 organized by School of Biological Sciences, Madurai Kamaraj University, Madurai
4. Participated in the one-day Seminar on “**Biochemical Application of Fundamental Research and Research and Future Potential**” held on 14th October 2022, organized by Aravind Medical Research Foundation (AMRF), Madurai.
5. Participated in the one-day International Seminar on “**Recent Advances in Electrochemical Technology (RABT 2022)**” held on 29th April 2022, organized by Department of Biotechnology, Thiruvalluvar University, Vellore.
6. Participated in the one-day hands-on training programme on “**Basic Principles of Biochemical techniques and Microbiology**” held on 19th April 2022, organized by PG Department of Biochemistry, Nadar Mahajana Sangam S. Vellaichamy Nadar College, Madurai.
7. Participated in the one-day National webinar on “**Trends in Bio-Entrepreneurship**” held on 01st September 2021, organized by Department of Biochemistry, American College, Madurai
8. Participated in the one-day webinar on “**Plant-Environment Interactions and Sustainable Production**” held on 10th February 2021, organized by Manipal School of life Science, Manipal Academy of Higher Education, Manipal.
9. Participated in the one-day webinar on “**The 50th Anniversary of the Ramsar Convention**” held on 2nd February 2021, organized by Department of Microbiology, Sourashtra College, Madurai.
10. participated in the six days **UGC STRIDE Workshop** on “**Statistical Data analysis and interpretation**” held from 13-18th January, 2021, organized by Mizoram University, Aizawl

11. participated one day **“International Online Conference on COVID -19 Biotechnology: A Way Forward.”** held on 30th April 2020 at Department of Biosciences, School of Basic Sciences, Manipal University, Jaipur.
12. Participated in the one-day’ webinar on **“Web of Science Basic Series”** conducted on 5th September 2019, Organized by Web of Science, Clarivate citation index and research-intelligence platform.
13. Participated in the one-day’ webinar on **“Why Train Faculty”** conducted on 30th April 2020, Organized by Biocon Academy, Bangalore.
14. Participated in the **“Online COVID-19 Awareness Quiz Program”** conducted on 19th May 2020, Organized by Sourashtra College, Institution’s Innovation Council, Madurai.
15. participated in the webinar **“Bio Diversity”** on 22nd May 2020, organised by ECO Club, Mannar Thirumalai Naicker College, Madurai.
16. participated in the National webinar on **“Immuno-modulation by Medicinal Plants: Needs of Today’s Scenario”** conducted on 24th August 2020, Organized by Department of Botany, Seth Phoolchand Agrawal Smriti PG College, Raipur Chhattisgarh.
17. Participated in the Two days’ workshop on **“Microbial Biofilms”** conducted on December 13-14th, 2019, Organized by SASTRA Deemed to be University as part of the SSR Policy of Science and Engineering Research Board, Thanjavur, Tamil Nadu, India.
18. Participated in the Ten days Online Workshop on **“Computer – Aided Drug Discovery”** held on 22nd July to 2nd August, 2019, Organized by BioTecknika info Labs Pvt Ltd, Bangalore, Karnataka, India.
19. Participated in the distance learning Course on **“General Course on Intellectual Property”** on 17th May 2019 to 29th June 2019 (6 weeks), organized by the WIPO Academy, World Intellectual Property Organization, Switzerland.
20. Participated in the One-day seminar on **“Recent Trends in Ecotoxicological Research”** held on August 9th, 2017, Organized by Department of Zoology, Directorate of Distance Education, Madurai Kamaraj University, Madurai, Tamil Nadu, India.
21. Participated in the One-day workshop on **“Intellectual Property Rights and Innovation Management in Knowledge Era”** conducted on April 10, 2017,

Organized by Internal Quality Assurance Cell, Madurai Kamaraj University, Madurai, Tamil Nadu, India.

22. Participated in the Two Days' workshop on **“National Workshop on Microbial Tool and Bioremediation (NWMB – 2017)”** conducted on February 09 - 10, 2017, Organized by Jeyaraj Annapackiyam College for Woman (Autonomous), Periyakulam, Tamil Nadu, India.
23. Participated in the Five Days National Level Workshop on **“Mapping of Gene Expression”** held during 19 – 23rd December 2016, organized by the Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India.
24. Participated in the Three Days National Workshop cum Training on **“Toxic Heavy Metals in Environmental and Seafood sample using AAS”** held during 03-05th February 2016, organized by the Department of Marine Science, Bharathidasan University, Tiruchirappalli 620 024. Tamilnadu, India.
25. Participated in the Three days' Workshop on **“National Seminar-cum-Workshop on Molecular Tools for Gene Expression Analysis”** held during 19-21st January 2016, organized by Behavioral Neuroscience Laboratory, Department of Animal Science, School of Life Sciences, Bharathidasan University, Tiruchirappalli 620 024. Tamilnadu, India.
26. Participated in the One day **“Training Program on Human Rights”** conducted on December 10, 2015, Organized by the School of Youth Empowerment in Association with National Human Rights Commission, New Delhi at Madurai Kamaraj University, Madurai, Tamil Nadu, India.
27. Participated in the One-day Seminar on **“Immunotherapeutic and Diagnostics”** on 5th October 2015, organized by the Department of Molecular Microbiology, School of Biotechnology, Madurai Kamaraj University, Madurai, Tamilnadu, India.
28. Participated in Two Days **“National Conference on Recent Trends in Modern Biology & 46th Aqua – Terr Annual Conference”** on 27th to 28th February 2015 at Department of Plant Science, School of Biological Sciences, Madurai Kamaraj University, Tamilnadu, India.
29. Participated in the One-day Workshop on **“Patents: In, Out and Future”** on 13th January 2015, organized by the Department of Physics Distance Education, Madurai Kamaraj University, Madurai, Tamilnadu, India.

30. Participated in the Three days Lecture Workshop on “**Genetic Diversity, Molecular Evolution and Genomics**” on 12th to 14th August 2014, at VIT University, Vellore, Tamilnadu, India.
31. Participated National Science Day & 45th Aqua – Terr Annual Conference on Biological Science “**Academies’ Lecture Workshop on Resent Research in Biological Science**” on 27th to 28th February 2014, at School of Biological Sciences, Madurai Kamaraj University, Tamilnadu, India.
32. Participated in the Three Days National seminar on “**Biotechnological Interventions in Green Technology for Sustainable Agriculture (BIGSTA'11)**” on 22nd-24th September 2011, organized by the Department of Biotechnology, Manonmaniam Sundaranar University, Alwarkurichi, Tamilnadu, India.
33. Participated in the one-day Meeting and Quiz on “**Conservation of Petroleum Products**” on 25th March 2011, organized by Human Uplift Trust (HUT), Alawrkuruchi, Tamilnadu, India.
34. Participated in the two days’ Workshop on “**Industrial Aspects of Antibody Production**” on 23rd & 24th February 2011, organized by the Department of Biotechnology, Manonmaniam Sundaranar University, Alwarkurichi, Tamilnadu, India.

Life Membership in Scientific Society

- The Indian Science Congress Association L27544/2015

I hereby assure you that I would serve to the best of my ability if given an opportunity to serve in your reputed firm.

Date :

Place : Madurai

(RAGHAVAN. K)