

CURRICULUM VITAE

Present Position

Ms. Sagaya Sowmya A.

Assistant Professor

Department of Medical Lab Technology

Holy Cross College (Autonomous)

Tiruchirappalli, Tamil Nadu, India, PIN – 620002.

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Career Objective

I aim to work with a prestigious institution that offers a platform to apply my teaching and research skills for career advancement and contribute to the student community.

Academic Profile

2020 – 2021 M. Phil. (**Zoology**) Bharathidasan University, Tiruchirappalli, Tamil Nadu.

2016 – 2018 B. Ed. (**Biological Sciences**) T. N. T. E. U., Chennai, Tamil Nadu. Tamil Nadu.

2014 – 2016 M. Sc. (**Zoology**) Periyar E.V.R College(Autonomous),Tiruchirappalli,Tamil Nadu.

2011 – 2014 B. Sc. (**Zoology**) Holy Cross College (Autonomous) Tiruchirappalli, Tamil Nadu.

Subject Specialization

Areas of Teaching Interest Biochemistry, Anatomy and Physiology, Hematology, Toxicology, and Marine Biology.

Areas of Research Interest Diversity and distribution of plankton in different ecosystems and Ecotoxicological analysis.

Project / Dissertation / Thesis Profile

2020 – 2021 **M. Phil. (Zoology) Project Title:** A Survey on Polycystic Ovary Syndrome (PCOs) among Adolescent Girls and Young Reproductive Age Group Women in Tiruchirappalli District, Tamil Nadu, India. **Under Supervision:** Dr. B. Kadalmani, Professor, Department of Animal Science, School of Life Sciences, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India, PIN – 620024.

2014 – 2016 **M. Sc. (Zoology) Project Title:** Impact of Monosodium Glutamate on Growth, Biochemistry of Zebra Fish (*Danio rerio*) **Under Supervision:** Dr. P. Krishnamoorthy, Assistant Professor, Department of Zoology, Periyar E.V.R College, Tiruchirappalli, Tamil Nadu, India, PIN – 620023.

2011-2014 **B. Sc. (Zoology) Project Title:** Effect of Lipid Profile in PCOS-Induced Rats. **Under Supervision:** Dr. Horne Iona Averal, Associate Professor, Department of Zoology, Holy Cross College (Autonomous) Tiruchirappalli, Tamil Nadu, India, PIN – 620023.

Key Technical / Soft Skills

1. Expression and purification of recombinant proteins, SDS–PAGE, Agarose gel electrophoresis, Spectrophotometer, Hemagglutination assay, Biochemical parameters, Histopathology, PCR techniques, Fluorescence microscope, etc.
2. Sample collection and Isolation of pathogenic microorganisms. Smear preparation, Rapid plasma regain test, Widal test, Lab diagnosis for Kala-Azar, Liver function test, Renal function test, Lipid profile, Glucose metabolism test.
3. Well–versed M.S Offices, SPSS, OS 7/8/10, Efficient Internet, and Basic Computer Applications.

Published Books / Patent / Chapters / Monographs / Manuals

1. **Sagaya Sowmya A.** and Pramila, A. (2024) Laboratory Manual for Lab Technician (Edition 1), *Jazym Publications*, ISBN:978-81-975427-1-8.
2. Konkala Anand, Poonam Yadav, **Sagaya Sowmya, A.** and Preeti Manan (2022) Zoology: Animal Distribution, Evolution and Development (Edition 1) AGPH Books, ISBN:978-93-95936-29-3.
3. **Sagaya Sowmya A.**, Pramila A. and others. (2022) An Indian patent was filed and published for the title of the invention "An IOT-based portable health monitoring system" Reference No. 202241073507 A. Date of filing: 19/12/2022.

Presented Papers and Abstracts Published in Conferences / Symposia / Seminars

1. **Sagaya Sowmya A.** (2024) Physio-chemical parameters of selected freshwater ecosystems in Tiruchirappalli, Tamil Nadu, India. Workshop on “Artificial Intelligence in Precision Medicine” held on 01 – 02 August 2024. Organized by Department of Computational and Data Sciences, **Indian Institute of Science (IISc)** Bengaluru, India, PIN – 560012.
2. **Sagaya Sowmya A.** (2024) Seasonal Variations for various Physio-chemical parameters of different freshwater ecosystems in Tiruchirappalli. “Symposium on Big Data Algorithms for Biology” held on 31 May and 01 June 2024. Organized by Department of Computational and Data Sciences, **Indian Institute of Science (IISc)** Bengaluru, India, PIN – 560012.

Participated in Skill Training / Short-term / Workshops / Orientations / Refreshers

1. Participated as a delegate in the **National Workshop on “Skill Development Workshop on Histology Techniques and Its Importance**, held on 01–05 Nov. 2023. Organized by Centre for Advanced Study in Marine Biology, School of Life Sciences, Annamalai University, Chidambaram, Tamil Nadu, India, PIN – 608002.
2. Participated in one day **National Level Workshop Cum Training on PCR**, held on 19 Oct. 2023. Organized by Department of Microbiology, National Institute of Food Technology, Entrepreneurship and Management, Thanjavur, Tamil Nadu, India, PIN – 613005.
3. Participated in Rashtriya Uchchar Shiksha Abhiyan (RUSA 2.0) Sponsored a two-day **National Virtual Conference on Marine Bioprospecting and its role in Challengeable Disease**, held on 11-12 Oct. 2021. Organized by Department of Marine Sciences, Bharathidasan

University, Tiruchirappalli, Tamil Nadu, India, PIN – 620020.

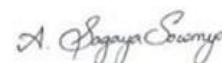
4. Participated in the Science Academic Sponsored Virtual Lecture **Workshop on Recent Trends of Spectroscopy in Material, Nanomaterial and Biological Sciences**, held on 28th Dec. 2020, Organized by Department of Physics, Manipur University, Manipur, India, PIN – 795003.
5. Participated in the International Webinar and **National Conference of the Society for Alternatives to Animal Experiments**, held on 28th Dec. 2020, Organized by National Centre for Alternatives to Animal Experiments (NCAAE), Bharathidasan University, Tiruchirappalli, Tamil Nadu, India, PIN – 620024.
6. Participated and **Won 1st Prize in the Animal Album Competition** Wining 15th Zoology Association held on 4th March 2015. Organized by Department of Zoology, Bishop Heber College (Autonomous), Tiruchirappalli, Tamil Nadu, India, PIN – 620017.
7. Participated and **Won 1st Prize in the Animal Album Competition** Wining 15th Zoology Association held on 4th March 2015. Organized by Department of Zoology, Bishop Heber College (Autonomous), Tiruchirappalli, Tamil Nadu, India, PIN – 620017.
8. Participated and **Won 4th Prize** in the Inter-Collegiate Sports and Tournaments for Women, held on 14th Nov. 2014. Organized by Department of Physical Education, Through Holy Cross College (Autonomous), Tiruchirappalli, Tamil Nadu, India, PIN – 620002.
9. Poster presentation and **Won 2nd Place** in Continuous Medical Education programmed on Stem Cellin Clinical Application held on 9th March 2014. Organized by Department of Biotechnology, National College (Autonomous) Tiruchirappalli and Jointly Organized by Mother Cell Regenerative Centre, Tiruchirappalli, PG and Research National College (Autonomous) Tiruchirappalli and Maruti Hospital Tiruchirappalli, Tamil Nadu, India.
10. Participated and **Won Best Outgoing Player** in Hockey, held on 20th July. 2013. Organized by Department of Physical Education, Holy Cross College (Autonomous), Tiruchirappalli, Tamil Nadu, India, PIN – 620002.

Professional Affiliations

1. Life Member All India Medical Laboratory Technologists Association, Patna, India.
2. Annual Member International Society of Zoological Sciences (ISZS), Beijing, China.
3. Member Curriculum Development Center, Directorate of Technical Education, Chennai.

Declaration

I, **Sagaya Sowmya A.** hereby declare that all the information above is true and correct to the best of my knowledge and belief.



Date: 19/11/2024

Yours faithfully

Place: Tiruchirappalli

(**Sagaya Sowmya A.**)