

Satheesh Kumar C,
M.Sc.Biotechnology (2018-2020),
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Academia

- 2020 - Masters in Biotechnology (CGPA: 7.55) at Alagappa University, Karaikudi.
- 2019 - Passed in examination of SWAYAM Online Course named “Biomolecules:Structure, Function in Health and Disease”
- 2018 – Bachelors in Biotechnology (CGPA: 8.55) at Thiagarajar college, Madurai.
- 2015 – HSC (75.4%) at Thiagarajar Model Hr.Sec. School, Madurai.
- 2013 – SSLC (95.4%) at Thiagarajar Model Hr.Sec. School, Madurai.

Working Experiences

- Sep 2020 – Feb 2022 Molecular Biology Technologist at Premier Health Center, Chennai.
- Learned basics in Proteomics at Aravind Medical Research Foundation – Madurai, onAug 2020.
- Experienced in Post Graduate dissertation work entitled “A proteomic approach tounderstand the mode of repair after injury using *Caenorhabditis elegans* wound model” under the guidance of Dr.K.Balamurugan, Professor, Department of Biotechnology, Alagappa University, Karaikudi. (Dec 2019 – May 2020)

Publications

- Pooranachithra, M., **Satheesh, K. C.**, Prabhanand, B. J., Venkateswaran, K., Ravichandran V., Balamurugan, K. Proteomic analysis of *Caenorhabditis elegans* wound model reveals novel molecular players involved in repair - **Journal of Proteomics**. (Impact factor: 3.560)
- Pooranachithra, M., Kannan, C., **Satheesh, K. C.**, Prabhanand, B. J., Venkateswaran, K., Ravichandran, V., Balamurugan, K. Impaired diabetic wound healing: A result of belated calcium signaling in *Caenorhabditis elegans* - **Diabetes and Metabolism** (under communication)

Computational Knowledge

- Bioinformatics – STRING, Gene Ontology, KEGG pathway analysis, Biological Databases, MS Fit, Mascot
- Softwares – Bio-Rad CFX DX, Gel Scanner III, Image Master 2D Platinum V.7, Rasmol
- MS office – Word, Excel & PowerPoint.

Instrumentation

- Real-time PCR system (Bio-RAD and QIAGEN)
- Nucleotide Extraction Instrument (Zybio)
- Liquid Phase IEF (MicroRotorfor)
- 2D Gel Electrophoresis (GE Healthcare)
- MALDI-TOF TOF (Shimadzu)
- Centrifuge (Thermoscientific)
- Spectrophotometer (SpectraMax)
- Bright Field Microscope (Nikon)
- Gel Documentation System (Bio-Rad)
- Ultra Sonicator (Bio-Rad)

Workshop/Conferences attended

- Attended the National Science Day - Science Workshop from 28 Feb -1 Mar, 2017 by Breakthrough Science Society at Madurai Kamarajar University College, Madurai.
- By the year 2019, from Feb 06 to Feb 08, attended UGC & DBT sponsored National Seminar cum workshop on “Genomics and Proteomics-2019” at Department of Biotechnology, Alagappa University, Karaikudi.
- On August 09 and August 10, 2019, participated in two days Theme Meeting on “Environmental Receptivity of Industrial Effluents and their influence on Marine Ecology & DAE Technologies for Water Treatment” organized by the Department of Biotechnology, Alagappa University, jointly Organised by Bhabha Atomic Research Centre (BARC) and sponsored by Board of Research in Nuclear Sciences (BRNS)
- Attended International conference cum Workshop on “Caenorhabditis elegans based OMICS for future challenges” on Sep 09 - Sep 13, 2019 at Department of Biotechnology, Alagappa University, Karaikudi.

Laboratory Skills

Genomics

- Genomic DNA extraction from animal, plant, bacterial and nematode.
- Plasmid DNA extraction.
- PCR & qRT PCR.
- Agarose gel electrophoresis
- Gene expression by qRT PCR
- Gel documentation

Proteomics

- Two-Dimensional Gel-Electrophoresis
- Liquid Phase-Iso Electric Focusing
- Native & SDS PAGE.
- ELISA, Western Blotting
- Trypsin Digestion (Ingel method).

rDNA Technology

- Restriction digestion
- cDNA synthesis
- Protein isolation, expression & Purification.

Biotechnologist:

As a Biotechnologist, all basic Biochemical, Microbiological and Immunological techniques including sterilization, plating, staining, other biochemical assays.

Additionally, Experience in handling model organisms and animal model, *Caenorhabditis elegans*

Oral Presentations

- Presented a paper titled “Traditional Methods of Food Processing” in the state level inter collegiate students’ seminar conducted by the Department of Botany and Biotechnology, Thiagarajar College, Madurai on 25.02.2016.
- Presented a paper titled “Tamil’s Position in Media” in the state level inter collegiate students’ seminar conducted by the Department of Tamil, Thiagarajar College, Madurai on 29.02.2016.
- Presented a paper titled “Microbiomics and Human Microbiome Project” in the state level inter collegiate students’ seminar conducted by the Department of Zoology and Microbiology, Thiagarajar College, Madurai on 14.09.2016.
- Presented a paper titled “Bioremediation” in the state level inter collegiate student’s seminar conducted by the Department of Botany and Biotechnology, Thiagarajar College, Madurai on 19.09.2016.
- Presented a seminar under the title “Recent approaches in Applied environmental and Biology” in the state level inter collegiate students’ seminar conducted by the Department of Botany, Thiagarajar College, Madurai on 05.09.2017

References

- **Dr. S. Karutha Pandian**
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