

SUBASRI SUBRAMANIAN

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EDUCATION

Pondicherry University, India	Ph.D. Biochemistry and Molecular Biology	2012-2020
Bharathidasan University, India	M.Phil. Biotechnology	2010-2011
VIT University, India	M.Sc. Biotechnology	2006-2008
Bharathidasan University, India	B.Sc. Biotechnology	2003-2006

ACADEMIC ACHIEVEMENTS

- Selected as JRF by UGC-Basic science research (BSR) fellowship, New Delhi, India in the year 2013-2016.
- Selected as SRF by UGC-Basic science research (BSR) fellowship, New Delhi, India in the year 2016-2018.

RESEARCH EXPERIENCE

Doctoral Research

Pondicherry University

(Aug 2012 – Oct 2020)

Thesis title “Evaluation of antioxidant, anti-apoptotic, and anti-aging activity of a natural compound magnolol”.

In this research, I explored the protective effect of magnolol against oxidative, apoptotic and aging in yeast and mice model. Magnolol proved to be a potent anti-aging compound by increasing the antioxidant enzyme level and attenuating the oxidative damages and apoptotic stress in both yeast and mice model.

Post-graduate Research

Vector control research centre, Pondicherry

(Dec 2007-May 2008)

Dissertation title “Amplification of 12S rDNA from *Wuchereria bancrofti* a lymphatic filarial parasite”.

M.phil Research

(Dec 2009 - May 2010)

Government Hospital for Chest disease, Pondicherry

Dissertation title “Molecular characterization of *rpoB* gene encoding Beta DNA Polymerase of *M.tuberculosis* of a clinical isolate using RT PCR in chest Hospital in Puducherry.

Research Assistant

Pondicherry centre for biological science, Pondicherry (Nov 2011 - Aug 2012)

Involved in different microbial projects, Isolation of DNA from bacterial samples, quantification of DNA, and PCR, and mentored Post graduate students in projects.

TECHNICAL SKILLS

Molecular Biology: Agarose gel electrophoresis, and SDS – PAGE, RT-PCR

Biochemistry: Enzymatic assays, biochemical assays, western blot, UV- visible absorption spectroscopy

Microscopy: Light and fluorescence microscopy

Animal Manipulation: Handling, feeding and Drug delivery.

Microbiology: Isolation of pure culture using spreading and differential culture technique, Microbial staining culture, maintenance of culture, antimicrobial activity, antibiotic sensitivity test.

Yeast cell: Cytotoxicity assay, spot assay, biomarkers of oxidative and apoptosis markers, Chronological life span assay.

PUBLICATIONS

- **Subasri S.**, Phaniendra A., Sudharsan SJ. *et al.* (2019) Magnolol protects *Saccharomyces cerevisiae* antioxidant-deficient mutants from oxidative stress and extends yeast chronological life span. FEMS Microbiol Letters; 366 (8).
- **Subasri S.**, Madhu D. (2018) Evaluation of antioxidant activity of Magnolol in *Saccharomyces cerevisiae*. International Journal of Pharmacy and Pharmaceutical Sciences;10;104-10
- **Subasri S.**, Bhavana V., Madhu D. (2021) Evaluating the genetic basis of anti-cancer property of Taxol in *Saccharomyces cerevisiae* model. FEMS Microbiol Letters; 368(13)
- Sudharsan SJ., Bhavana V., **Subasri S.** *et al.* (2019) Astaxanthin enhances the longevity of *Saccharomyces cerevisiae* by decreasing oxidative stress and apoptosis. FEMS yeast research;19;1-11.
- Sudharsan SJ., Subasri S., Greeshma S *et al.* (2019) Axtanxanthin protects oxidative stress mediated DNA damage and enhances the longevity of *Saccharomyces cerevisiae*. 3 Biotech; 9(3); 88.
- Alugoju P., Sudharsan SJ., **Subasri S.**, *et al.* (2017) Quercetin Protects Yeast *Saccharomyces cerevisiae* pep4 Mutant from Oxidative and Apoptotic Stress and Extends Chronological Lifespan. Current Microbiology; 5:519-530
- Madhu D., **Subasri S.**, and Geetha NP. Yeasts: Candida and Cryptococcus. Bacterial and Mycotic Infections in Immunocompromised Hosts: Clinical and Microbiological Aspects. Omics (Book Chapter)

MANUSCRIPT UNDER PREPARATION

- Magnolol rescue yeast anti-apoptotic gene deficient mutants from apoptotic stressors and extends chronological life span
- Protection of disease associated human homologue yeast gene mutant strains from oxidative, apoptotic and aging stress by magnolol
- Anti-aging activity of magnolol in mice model

SEMINARS AND PRESENTATIONS

- Subasri S., Phaniendra A., Sudharsan SJ., Bhavana V., Madhu D. Antioxidant and anti - ageing activity of magnolol in yeast cells “**National Seminar on Drug Discovery and Cancer Therapy**” (DDCT-2016), held at Pondicherry University, Puducherry in February 25th & 26th, 2016. (Poster Presentation).
- Participation of oral presentation in National Science Day Seminar Organized by Department of Biochemistry and Molecular Biology February 25th 2017.

REFERENCES

1. Dr.Madhu Dyavaiah

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Dept. of Biochemistry &
Molecular Biology
School of Life Sciences
Pondicherry University.

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