

ARVINDH SOUNDARARAJAN

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Aims and Objectives

My immediate objective is to take on a task in a premier organisation, where I would be able to develop and exercise my capabilities. I hope to land a position that would allow me to use my knowledge. In the future, I'm looking forward to see myself as an organisation's chief.

Skills

- Good at managing multiple projects
- Well enough in innovative scientific illustrations
- Able to understand and correlate the scientific, technical and economical prominence of the products and services
- Good at enlightening the products and services
- Innovative in demonstration and embracing new technologies
- Good at performing experiments and statistical analysis
- Good at designing experiments, communication and accomplishment

Experience

- **Scientific Illustrator – Freelancer**
 - 2023 – present • 1 yr.
- **Executive**
 - Revive Pharma • 2022 – 2023 • 1.5 yrs
- **Research Fellow**
 - Annamalai University • 2019 – 2022 • 3 yrs.
“Aldose Reductase (AR) mediated aberrant molecular changes in coincident diabetes and cancer: Effect of dietary AR inhibitor”
- **Master's Thesis**
 - Bharathiar University • Nov 2018 – May 2019 • 6 mos.
“Developing Silk Fibroin- Microcrystalline Cellulose composite for coating applications”
- **Diploma Dissertation**
 - Bharathiar University • Feb 2017 – Mar 2017 • 3 mos.
“Diagnosis of Alzheimer Disease in Geriatric Patients”

Publications

- **Arvindh S**, Priyadarshini M, Baba AB, Veeravarmal V, Mishra R, Dash R, Nagini S. The Neem Limonoid Nimbolide Modulates Key Components of the DNA Damage Response Signalling in Cellular and Animal Models of Oral Squamous Cell Carcinoma. *Curr Pharm Biotechnol*. doi: 10.2174/0113892010291998240321074920. Epub ahead of print. PMID: 38561609.
- Nivetha R, **Arvindh S**, Baba AB, Gade DR, Gopal G, K C, Reddy KP, Reddy GB, Nagini S. Nimbolide, a Neem Limonoid, Inhibits Angiogenesis in Breast Cancer by Abrogating Aldose Reductase Mediated IGF-1/PI3K/Akt Signalling. *Anticancer Agents Med Chem*. 2022;22(14):2619-2636. doi: 10.2174/1871520622666220204115151. PMID: 35125086.

Recent Research

I have recently worked on anti-cancer agents of phytochemical origin and I try to evaluate their potential use in chemoprevention and chemotherapy, my emphasis lies in studying their mode of action through processes in cancer cell regulation. Over a decade of phytochemical modified forms has been reported as cancer therapeutic drugs with a well-established mode of action. Reports showed the potential of phytochemicals in chemoprevention. I study the potential of Nimbolide a lesser-understood substance that promises great potential in combinational drugs. I currently enjoy generous funding from the Department of Science and Technology of the Government of India.

Reference

- Dr. Kowshik Jaganathan
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- Dr. Rasmi R.
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Education

PSG College of Arts & Science

 **M.Sc., in Biotechnology** (July 2017 – May 2019)

Cumulative Grade: A

 **B.Sc., in Biotechnology** (July 2014 – May 2017)

Cumulative Grade: A

 **Diploma in Diagnostics & Clinical Laboratory Management**

(July 2014 – May 2017)

 **Artwel Designing Academy**

Diploma in Graphic Designing (2022-2023)

Percentage : 80%

Technical Experience

Graphic Designing

Illustrator | Coral-draw | Photoshop

Cell culture

Cancer cell line maintenance | Transfection | Gene knockdown | overexpression studies

Staining techniques

H&E staining | DAPI | JC-1 staining | Colony formation assay | TUNNEL assay | AO-EtBr | DCFH-DA

Microscopy

Confocal microscopy | Fluorescence microscopy | Light microscopy

Immunochemical

Immunohistochemistry | Immunoblotting | Immunofluorescence
ELISA | Flowcytometry

Real-Time PCR

Animal handling

Hamster Buccal Pouch Model | Patient-Derived Xenograft Model

Biomaterial synthesis & characterization

Spin coating | Electrospinning | FT-IR | AFM | SEM