Dr. R. ANITHA, PhD
Assistant Professor,
Department of Chemical Engineering,
Hindustan Institute of Technology and Science (HITS),
Padur – 603103, Chennai.

Academic Profile

Examination passed	School/university	Major discipline	Year of passing	% of marks / OGPA
Ph. D	SSN College of Engineering (SSNCE) (Affiliated to Anna Univ.), Kalavakkam, Kanchipuram, T.N.	Biotechnology	2016-2021	7.85 (Completed final viva on 23rd July 21)
Thesis (Ph. D): Investigations on *cassia auriculata* aerial parts as potential source of anticancer agents				
M.S. (By Research)	Anna University, Guindy Main campus, Chennai, T.N.	Biotechnology	2006-2009	7.63/10
Thesis (P.G.): Screening and partial purification of extracellular lipase from *Aeromonas spp*.				
B. Tech (Agricultural Biotechnology)	Tamil Nadu Agricultural University, Coimbatore, T.N.	Agricultural Biotechnology	2002-2006	8.56/10
Project Work (U.G): Identification of microsatellite markers associated with drought tolerance in rice (*Oryzae sativa* L.) using bulked line analysis.				
H. Sc.	Nyruthi Higher Secondary School, Tiruppur, Erode District, T.N.	Math with Biology	2000-2002	89.92%
S.S.L.C.	Govt. Girls. High School, Bommidi, Dharmapuri District, T.N.	Maths with Biology	1999-2000	82.6% (School first)

Professional Experience

SRF: From 9th November 2020 to 27th June 2021 (**8 months**) at Department of Biomedical Engineering, **SSNCE, Chennai.**

JRF: From June 2016 to November 2019 (**3 years**) at Department of Biomedical Engineering, **SSNCE, Chennai.** (Availed while perusing Ph. D).

SRF: From December 2012 to March 2015 (**2 years and 3 months**) at Center for Plant Molecular Biology and Biotechnology (CPMB), **TNAU, Coimbatore**.

Research Details

Thesis (Ph. D): Investigations on *cassia auriculata* aerial parts as potential source of anticancer agents. (Under the guidance of **Dr. R. Subashini, Assistant Professor**, Department of Biomedical Engineering, SSN College of Engineering (Affiliated to Anna University), Chennai)

Thesis (M. S): Screening, characterization and partial purification of extracellular lipase from *Aeromonas* spp. (Under the guidance of **Dr. P. Gautam, Professor**, Centre for Biotechnology (CBT), Anna University, Chennai)

6. Areas of interest

- Molecular cloning and characterization
- Plant Biotechnology
- Plant tissue culture
- Medicinal Chemistry
- Genetic Engineering
- Microbial enzyme characterization studies
- Cancer Biology & cell culture technology
- RNAi (RNA interference) technology

Key Publications

1. **Anitha, R**, Subashini, R, Gomathi, K, & Gayathri, D 2021, 'Chronic inflammatory modulating potential of *Cassia auriculata* and its anticancer efficacy on lung cancer cell line', **Anticancer Agents in Medicinal Chemistry**, vol. 21, no.3, pp. 343-354. (**Annexure I, IF – 2.505**).

2. **Anitha**, **R,** Subashini, R & Senthil Kumar, P 2020, 'In silico and in vitro approaches to evaluate the bioactivity of *Cassia auriculata* Linn. Extracts', **IET Nanobiotechnology**, vol. 4, no. 3, pp. 210-216. (**Annexure I, IF – 1.925).**

3. **Anitha, R** and R. Subashini, R 2020, 'Assessment of *in vitro* biological activities of *cassia auriculata* aerial plant parts', **Proceedings of International Conference on Innovations in Biotechnology and Life Sciences**, AB-022, p. 75. (ISBN (Print): 978-93-88647-32-8; ISBN (Online): 978-93-88647-33-5; DOI: 10.6084/m9.figshare.13947833. Also available on Google Books: http://books.google.com/books/about?id=SA0eEAAAQBAJ).

4. Subashini R, **Anitha R**, Kiruthika N, Kowsalya G, Sivadharshini J 2021, 'Isolation and purification of antimicrobial protein from *Cocos nucifera* and its efficacy on human pathogens', **Indian Journal of Natural Sciences**, Vol. 12, no. 65, pp. 30522 – 30528. **(SCOPUS & TR).**

5. Kulsum Neha, **Rajagopal Anitha**, Rajakannu Subashini, Amirthakadeswaran Natarajan, T. M. Sridhar 2019, 'Synthesis and characterization of chitosan/potato peel powder-based hydrogel and it's in vitro antimicrobial activity', **Journal of Applied Pharmaceutical Science**, vol. 9, no. 9, pp. 66-71. **(SCOPUS)**.

6. **Anitha, R** and Subashini, R 2017, 'Evaluation of antibacterial potency and phytochemical screening of seed extracts of *Butea monosperma*', **Research Journal of Pharmaceutical, Biological and Chemical Sciences**, vol. 8, no. 3S, pp. 164-172. **(SCOPUS)**.