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

Academic Profile

Examination passed	School/university	Major discipline	Year of passing
Ph. D	Anna University, Chennai	Biotechnology	2016-2021
M.S. (By Research)	Anna University, Guindy Main campus, Chennai, T.N.	Biotechnology	2006-2009
B. Tech (Agricultural Biotechnology)	Tamil Nadu Agricultural University, Coimbatore, T.N.	Agricultural Biotechnology	2002-2006
H. Sc.	Nyruthi Higher Secondary School, Tiruppur, Erode Dt., T.N.	Math with Biology	2000-2002
S.S.L.C.	State Board, Dharmapuri Dt., T.N.	Math with Biology	1999-2000

Professional Experience

Assistant Professor: From 28th June 2021 to till date at Department of Biotechnology, Hindustan Institute of Technology and Science, Chennai.

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**.**

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

Membership in Professional bodies

1. Life member in Indian Society of Chemists and Biologists (ISCB). Fellow no.: AF 1147/2021.
2. Life member in International Association of Engineers (IAENG). Membership no.: 315163.

Areas of interest

- Cancer biology
- Anticancer agents in medicinal chemistry
- Plastic waste degradation
- Bioplastics

Publication Details

International Journals

1. **R. Anitha**, R. Maruthi, S. Sudha 2022, 'Automated Segregation and Microbial Degradation of Plastic Wastes: A Greener Solution to Waste Management Problems', **Global Transitions Proceedings**, Vol. 3(1), pp. 100-103. (ELSEVIER).

2. Sankar Padmanabhan, R. Maruthi and **R. Anitha** 2022, 'An experimental study to recognize and mitigate the malevolent attack in wireless sensors networks', **Global Transitions Proceedings**, Vol. 3(1), pp. 55-59. (ELSEVIER).

3. **Anitha, R** and Subashini, R 2022, '*Cassia auriculata Linn*. extracts induce apoptosis and cell cycle arrest of A549 lung cancer cell lines: An in vitro approach', **South African Journal of Botany**, Vol. 147, pp. 275-285. (ELSEVIER**, IF – 2.315**).

4. **Anitha, R** and Subashini, R 2021, '*Cassia auriculata* and its role in infection / inflammation: A close look on future drug discovery', **Chemosphere**, vol. 287, no. 132345. (ELSEVIER**, IF – 7.089**).
5. **R. Anitha**, R. Subashini, P. Senthil Kumar 2021, 'Application of Life Cycle Sustainability Assessment to Evaluate the Future Energy Crops for Sustainable Energy and Bio products. In: Muthu S.S. (eds) Life Cycle Sustainability Assessment (LCSA). Environmental Footprints and Eco-design of Products and Processes. **Springer**, Singapore. pp. 57-80.

6. **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. (**IF – 2.505**).

7. **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. (**IF – 1.925).**
8. **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.

9. 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).**

10. 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)**.

11. **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)**.

12. **Anitha, R,** G. Saranya, S. M. Gomez, K. R. Biji, S. Satheesh Kumar, S. M. B. Kumar, N. M. Boopathi and R. Chandra Babu 2008, 'Identification of microsatellite markers associated with drought tolerance in rice (*Oryzae sativa* L.) using bulked line analysis', **Plant Archives**, vol. 8, no. 1, pp. 93-96. **(SCOPUS).**