

ABINAYA NALLATHAMBI

BIOMEDICAL ENGINEER

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I am a young self-driven, passionate learner gained an entrepreneurial attitude in the field of medical science and technology. I am an optimistic and inquisitive personality look forward for new challenges and opportunities.

EDUCATION

- 2019 - 2021 **Masters in Biomedical Engineering** from University of Basel, Switzerland.
Specialization on Biomaterials Engineering, Tissue & regenerative medicine, and image analysis.
- 2014 - 2018 **Bachelor of Engineering- Biomedical**
Sri Sivasubramaniya Nadar College of Engineering (SSNCE), India.

WORK EXPERIENCE

- Sept. 2021 **Avigen Biotechnology pvt.lmt,India -Intern: mammalian cell culture (India).**
Performed Mammalian cell culture on MDA-MB-231 and testing the cell viability / toxicity assay, Immunofluorescent assay and wound healing test and tissue engineering application.
- May.2021 **Biomaterials Science Centre, University of Basel - Intern: Production and Quality assurance**
Jun.2021 Optimisation & production of cellulose scaffolds for successful preclinical trials
- Jun. 2020 **ETH Zurich- Bioanalytics Group at (DBBSE) - Intern: Microfluidics for drug testing**
Aug.2020 Microfluidic chip fabrication and optimised cell culturing for drug testing
- Jun. 2018 **CREST- SSN college of engineering - Project Assistant: Solid-state physics and Data science**
Aug.2019 Developing predictive algorithm of agriculture production influenced on physical factors
Literature analysis in crystal growth and editing articles
Crystal growth and solid state characterization for medical laser application
- Jun. 2017 **SSN college of engineering, India – Intern: Project Developer**
Jun.2018 Pioneered solgel setup at laboratory to fabricate ceramics for bio implantable antenna
Upstream and downstream processing
Checking water contamination due to nuclear power plant

ACADEMIC SKILLS

Wet lab Cell culture, Drug testing, Microfluidics, Biomaterial fabrication, solid- state characterization and handled various microscopies.

Dry lab Image analysis, Data science for single cell RNA sequencing

Software R, MATLAB, COMSOL, LABVIEW, ORIGIN, MS-office, Adobe (photoshop and illustrator), Fiji

Knowledge on GMP, ISO protocols and regulatory affairs, upstream and downstream process, six sigma

LIFE SKILLS

- Hobbies Chess, Silambam (stick fighting), singing, horse riding, swimming
- Language English(fluent), Tamil(native), Malayalam(native), Hindi (conversational), German (learning B1)
- Trained Entrepreneurial skills in leadership, management, and effective communication from 'Innosuisse' University of Basel, Switzerland.

(With the above experience supported a supermarket in developing marketing strategies and acted as team leader and contributed to multiply branches.)

AWARDS

- 2019-2021 Tuition fee waiver at University of Basel for high scoring & on time course completion.
- 2016 Awarded funding for developing laboratory for my bachelor thesis from SSN college.
- 2015 Awarded for best circuit designing by IEEE-EMB.

PUBLICATION

Abinaya N, Rajesh N P. Review on multi-field application of dielectric resonator antenna
Journal of Biomedical Engineering and Biosciences 1(4) - 2018. 10.32474/OAJBEB.2018.01.000119.

Rajesh N P, Abinaya N, Review on gray track effects on KTP single crystals
Journal Material Science (JOJMS), 10.19080/jojms.2017.03.555612.

EXTRA-CURRICULAR ACTIVITIES

- Active member of IAESTE
- Tutored in public school as a volunteer
- Organized workshops as Team Leader at college technical symposium & Inspire science camp
- Associated planning committee of Department of Science and Technology-India