

JUMANA ABDUL SAMAD

Microbiologist



CONTACT

✉ jumana96ind@gmail.com

📍 Palakkad, Kerala, India

TECHNICAL SKILLS

- Biological samples culturing
- Media preparation
- Pour plate & Streak plate techniques
- Gram Staining
- Biochemical Characterization
- Covid-19 testing
- Serology tests
- Biofire Panels
- Agarose Gel Electrophoresis
- UV/ Vis Spectroscopy
- DNA Extraction
- Protein Assays:
Biuret & Lowry's methods
- qRT- PCR
- TLC & Paper Chromatography
- Manuscript Writing
- Computer skills:
MS Word, PowerPoint, Excel

CAREER OBJECTIVE

Enthusiastic microbiologist looking for opportunities to contribute to team success through hard work and excellent organizational skill. Motivated to learn, grow and excel in the field of Microbiology.

EXPERIENCE

Aster Medcity, Kochi

Microbiology Lab Trainee, November 2021 - Present

Completed 11 months of training in the Microbiology lab. Gained hands-on experience in the following sections:

- Media preparation
- Processing and culturing biological samples
- Handling blood and body fluid positives
- Microscopic smear examination
- Serology tests:
 - HBV, HCV and HIV CLIA tests
 - Card tests (Dengue NS1, Dengue IgG + IgM, Lepto IgM, Scrub Typhus, Salmonella card, RPR)
- Handling outsource tests
- Covid-19 testing:
 - POC PCR
 - Rapid Antigen test

EDUCATION

VIT University, Vellore, Tamil Nadu

Master of Science in Applied Microbiology, CGPA 9.16, 2019-2021

Manipal Academy of Higher Education –MAHE, Dubai, U.A.E

Bachelor of Science in Biotechnology, CGPA 9.5, 2014-2017

Indian Islahi Islamic School, Abu Dhabi, U.A.E

12th Grade, CGPA 9.54, 2013-2014

10th Grade, CGPA 10.0, 2011-2012

Relevant Coursework:

- Molecular Biology, Food Microbiology, Immunology, Medical Microbiology, Fermentation Technology, Biostatistics

Awards & Honors:

- Excellence Award for Academic Excellence in Bachelor of Science in Biotechnology from the School of Life Sciences, Manipal University, Dubai
- Won 2nd place in the Innovation Journey Contest 2016, for presenting the idea – Automated Car-Metro, held by RTA, Dubai

Conferences:

- Paper presentations in the 19th, 20th and 21st International Conference on Science, Engineering and Technology, held at VIT University, Vellore during 2019-2020
- Participated in the International Conference on Current Trends in Biotechnology, organized by the School of Life Sciences, MAHE, Dubai during 2015, 2016 & 2017

Extracurricular Activities:

- Volunteered for the Young Innovators Competition, held at MAHE, Dubai during 2014, 2015 & 2016
- Volunteered for International Conference on Current Trends in Biotechnology 2016, held at MAHE, Dubai
- Accepted as the member of the International Student Chapter of the American Society of Microbiology, and also member of Biotechnology Student Council, School of Life Sciences, MAHE, Dubai

PROJECTS

- To Study the Role of Cholesterol Assimilation by Probiotic Strains
- Evaluation of Fatty Acids Production and Its Impact on the Survival of Probiotic *Pediococcus pentosaceus* GS4 and *Enterococcus faecalis* AG5 Strains
- Isolation and Purification of β -Glucosidase from Wood Decaying Fungus
- Analysis of Renin Angiotensin Aldosterone System Gene Polymorphisms of ADD1 and AGT Genes in Emirati Population
- Environmental Protection from Vehicular Air Pollutants Using Native Plants of U.A.E and Using Plants as Ecological Bio-Monitors of Air Quality

CERTIFICATIONS

- Course Certificate in Introductory Human Physiology, an online non-credit course authorized by Duke University and offered through Coursera
- Course Certificate in Bioinformatic Methods I, an online non-credit course authorized by University of Toronto and offered through Coursera
- Course Certificate in Bioinformatic Methods II, authorized by University of Toronto and offered through Coursera
- X Series Certificate in Food Security and Sustainability by WageningenX, in collaboration with edX
- edX Verified Certificates in: (by WageningenX, an initiative of Wageningen University & Research)
 - Nutrition and Health: Human Microbiome
 - Nutrition and Health: Food Risks
 - Biobased Principles and Opportunities
 - Sustainable Soil Management: Soil for Life
- edX Verified Certificate in The Climate-Energy Challenge by HarvardX, an initiative by Harvard University
- edX Verified Certificate in Water and Wastewater Treatment Engineering: Biochemical Technology by TsinghuaX, an initiative by Tsinghua University
- NPTEL Certificates in:
 - Bioenergy, by IIT, Kanpur
 - Design Thinking – A Primer, by IIT, Madras

REFERENCES

Dr. Mohanasrinivasan V

Associate Professor Grade I

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VIT, Vellore, Tamil Nadu
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Sheji Johney

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