

Curriculum Vitae

Pamela Moussa

Contact information

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Nationality: Lebanese

Education

2019-2021 MSc in Biomedical Sciences (GPA: 3.73/4.0), American University of Beirut, Lebanon
2017-2019 BSc in Medical Laboratory Technology (GPA: 4.0/4.0, Valedictorian and Khalil Kanaan Award winner for academic excellence for the academic year 2018-2019, Dean's Honors List for Fall 2017-Spring 2019), Notre Dame University, Lebanon
2014 High School Diploma, Saint Joseph School, Miniara, Lebanon

Research Experience

2019-2021 Master research project: Anti-biofilm Agents from Unexploited Soil and Marine Microorganisms

Professional Experience

2021 Certificates through Coursera:
- Outbreaks and Epidemics- Johns Hopkins University
- Bacteria and Chronic Infections- University of Copenhagen
- Antimicrobial Resistance- theory and methods- Technical University of Denmark
- Whole genome sequencing of bacterial genomes- tools and applications- Technical University of Denmark
2021 Animal handling and research certificate, AUB animal care facility

Additional Professional Experience

05/2021-Present	Freelance tutor for primary school students, Online
05/2021-09/2021	Laboratory technician-Paid internship, Lebanese Hospital Geitaoui, Lebanon
02/2021-03/2021	Molecular Training for COVID patients, Al-Hadi Laboratories, Lebanon
01/2021-02/2021	Molecular Training for COVID patients, New Mazloum Hospital, Lebanon
07/2017-05/2019	Medical Laboratory Internship, Kesserwan Medical Center (KMC), Lebanon
06/2015-08/2015	Pharmacy Internship, Akiki Pharmacy, Byblos, Lebanon

Technical skills

Cell Culture

- 2D adherent cell culture (urinary tract cell lines: ECV 303, SV-HUC)
- In vitro infection of cell lines using biofilm-forming bacteria

Microbiology

- Bacterial growth and characterization
- Performance of Broth Microdilutions
- DNA and RNA extraction and manipulation
- Performance and analysis of Whole Genomic Sequencing data
- Extraction and manipulation of the DNA of biofilms (Qiagen kit)
- Conducting biofilm formation microtiter plate assays

Chemistry

- Thin Layer Chromatography (TLC)
- Flash Column Chromatography
- Small scale and upscale production of secondary metabolites from soil and marine microorganism
- Liquid-liquid partitioning

Microscopy

- Wide-field microscopy
- Scanning electron microscopy

Computer skills

- GraphPad Prism, Microsoft Office (Excel, Word, PowerPoint)

Medical laboratory

- Phlebotomy
- Staining and reading hematological peripheral smears
- Handling bacteriological specimens and cultures (pus, body fluids, swabs, sputum, urine, stool...)
- Gram and Ziehl-Neelsen staining
- RNA extraction and performance of RT-PCR for COVID samples
- Performance of serological and biochemical testing

Languages

- Arabic: native language
- English: fluent (speaking and written)
- French: fluent (speaking and written)

References

Antoine Abou Fayad, PhD, Assistant Professor
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