

Education

- **2014 - 2015 Sfi (Swedish för Invandrare), Hermods School, Malmö - Sweden**
- **2012 - 2014 Master Degree in Biomedical Sciences, Malmö University of Sweden - Faculty of Health and Society**
Key courses: Bio-interfaces in Immunology and Cell Separation, Bio-interfaces in living systems, Biological Interfaces in Molecular Biology and Nanotechnology, Artificial bio-interfaces, Research methodology and ethics, Entrepreneurship, patent and intellectual property rights.
- **2009- 2012 Bachelor in Medical Laboratory Sciences, American University of Beirut - Faculty of Health and Sciences - Lebanon**
Key courses: General Biology, Microbiology, Immunology, Genetics and Molecular Biology, Cytogenetics, Organic chemistry, Biochemistry, Human Physiology, Clinical chemistry I and II, Bacteriology, Hematology I and II, Virology, Serology, and Blood Bank.
Additional courses: Health communication, Bio-medical ethics, Psychology, Health service administration, Epidemiology and Biostatistics.
- **2002-2009 Baccalaureate II of Life Sciences, Hariri High School II - Lebanon**
(Equivalent to Naturvetenskapliga programmet in Sweden)
- **1996-2002 Beirut Baptist school - Lebanon**

Work experience

- **Sep 2015 - Planned till Sep 2016 Early Stage Researcher at Kennedy Center, Denmark**
- **May 2015 - Sep 2015 Internship in Cancer and Biomedicine research at Malmö University**
Responsibilities:
 - Cell culturing, harvesting and counting using haemocytometer.
 - Microscopic imaging of cells stained with MIPs (Molecular Imprinting Polymers).
 - Conducting experiments using flow cytometry (FACS) and fluorescent microscopy.
- **Jan 2014 - Jun 2014 Master Research project at Malmö University, Sweden**
Thesis: "Do Aluminum adjuvants, approved in vaccines, cause THP-1 cell toxicity and consequently the release of mitochondrial DNA?"
Responsibilities:
 - DNA extraction, gel electrophoresis, purification and quantification of mtDNA.
 - Managing experiments using Real-Time Quantitative PCR (qPCR), flow cytometry and LDH enzyme based assays.
 - Data analysis using the FACS, ELISA reader and qPCR software.
- **Mar 2013 - Aug 2013 Graduate Research Assistant at Malmö University, Sweden**
Project: Does endocytosis of aluminum oxide nano-particles (NP) covalently attached to IgG induce formation of lysosomes and activation of caspase 1 in THP-1 cells?

Responsibilities:

- Cell harvesting, cell counting and cell co-culturing.
- In vitro assays: FACS, Western Blot, and MTT assay.

- **June 2011- June 2012 Practical work at the [American University of Beirut Medical Center, Lebanon](#)**

Responsibilities: Microbial staining and identification, microbial isolation and counting, cultivation on environmental plates, microscopic investigation, antibiotic treatments, allergy testing, ELISA, routine chemistry and blood tests, therapeutic drug monitoring, specimen examination, karyotyping, DNA extraction, PCR, tissue sample preparation and staining, Radioimmunoassay (RIA), Immunohistochemistry (IHC), and Immunofluorescence (IF).

Key strengths

- **Laboratory skills**

- Laboratory techniques including: qPCR, FACS, ELISA, Clinical enzyme assays as (MTT/LDH), Light Microscopy, Endotoxin tests, Western blot, Spectroscopy, Zeta potential measurements, Dynamic light scattering (DLS) and electrophoretic techniques.
- DNA extraction and amplification, Gel electrophoresis, RIA, IHC, IF, Cell separation with Ficoll and Magnetic labeling (MACS), Haemocytometer.
- Microbial staining and counting, microbial plating and identification on environmental plates, antibiotic treatments.
- Computer analysis of the results obtained by the different instruments used in the lab.

- **Communication skills (oral and written)**

- Fluent in both English and Arabic (Degree level).
- Basic conversational level in Swedish.
- Involved in leadership roles at high school and university.
- Efficient skills in Microsoft Office Excel, Word, and Power Point.

- **Problem solving skills**

I have an enquiring mind and good problem solving skills tested with continuous problem solving exercises given as assessments. One of my obtained courses was Problem Based Learning sessions (PBL).

Workshops Attended

- Malmö Cancer Center (MCC), at Ystad Saltsjöbad, Sweden (2015).
- Advanced light microscopy symposium at Lund University, Sweden (2015).
- Biofilms - Research Center for Biointerfaces, at Malmö University, Sweden (2012, 2013).
- PEPMIP- A workshop on business development in Analytical Chemistry, Sweden (March 2013).
- Research program at Medeon Science Park, Malmö, Sweden (March 2013).
- 11th Swedish Proteomics Society Symposium, at Malmö University, Sweden (2012).

Interests Spinning, traveling, discovering ancient cultures, and meeting new people.

Referees Available upon request.