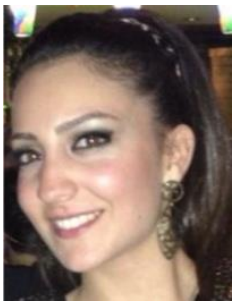

Lara Bou Malhab

32 years old
Nationality: Lebanese

Future Tower II, Al Khan, Sharjah, UAE

+971 56 9660983
Lara.boumalhab@hotmail.com

Education:

2012-2016: PhD, health biology at Université de Montpellier, France

2009-2011: Master of science "structure and interaction of macromolecules and functional genetics" at Saint-Joseph University, Lebanon

2006-2009: Bachelor's degree, double major in biochemistry and life sciences at Saint-Joseph University, Lebanon

2006-2007: French and Lebanese Baccalaureate in life science at Antonin Fathers school, Lebanon

Personal qualities:

Enthusiastic

Creative

Well-organized

Adaptable

Language skills:
Arabic: mother tongue
French: read, written and spoken fluently
English: read, written and spoken fluently *(High intermediate: Georgetown university proficiency test)*
Spanish: beginner

Hobbies:
Athletism (trophies/medals)
Painting (awards)
Travelling, writing, reading

Skills

Cellular biology: Cell culture, cells transfection, plasmids overexpression, siRNA-shRNA transfection. Immunofluorescence. Immunohistochemistry. Flow Cytometry, viability tests (CellTiter-Glo kit), proliferation test (SRB), clonogenic assay, invasion test (3D matrix), migration test (scratch assay), luciferase assay, caspase and Annexin assay. Microbiological culture.

Molecular biology: PCR, real time PCR (Q-PCR), RNA sequencing.

Biochemistry: Western Blot, pulldowns (GST PD, Ni PD, GFP trap PD), fractionation.

Animal manipulation: I learnt how to handle, manipulate and treat zebrafish embryos.

Computer skills: Database exploitation (NBCI, ExPASy, PANTHER, genecards). Results processing (ImageJ, Cell Quest, …). Office tools: MS office.

Professional experience

2019 - present: Post-doctoral researcher associate
SIMR- M32 Sharjah, UAE
Major focus: (1) Molecular study of colon and breast cancer development in obesity
(2) HSP60 and β-catenin: expression and role in colorectal cancer metastasis
- Students supervision
- Writing proposals for grants requests

2018 - 2019: Post-doctoral researcher
CRBM - CNRS - UMR5237 Montpellier, France
Major focus: Role of p53 isoforms in cancer cell invasion of colorectal cancer
- Identify mechanisms through which p53 isoforms induce cancer cells invasion
- Perform high-throughput analysis to establish intra and extracellular programs which control p53 isoforms during cancer cell invasion
- Validate Δ133p53β as a biomarker of relapse in colorectal cancer

2017 - 2018: Post-doctoral researcher
CRBM - CNRS - UMR5237 Montpellier, France
Major focus: The role of the NEDD8 pathway in cell invasion and strategies for the use of NEDD8 inhibitors in the clinic
- study the correlation between oncogenes controlled by the NEDD8 pathway and small Rho GTPases to reveal molecular mechanisms for the anti-invasive effects of NEDD8 inhibitors

2012 - 2016: PhD fellow
CRBM - CNRS - UMR5237 Montpellier, France
Major focus: The role of the NEDD8 pathway in cell invasion and strategies for the use of NEDD8 inhibitors in the clinic
- Determine the mechanisms through which protein NEDDylation controls the stability of the Mdmx oncogene
- Study the potential use of the NEDD8 inhibitor MLN4924 in a "p53 based cyclotherapy approach" to specifically target tumour cells with mutant or no p53

2011 - 2012: Master 2 internship
Institut Gustave Roussy - Paris, France
Major focus: monitor gene expression in thyroid cells upon overexpression/re-expression of the transcription factors TTF-1 and PAX8 in anaplastic (non differenciated) thyroid cells

2010 – 2011: Master 1 internship
Faculty of science – Saint-Joseph University – Beirut, Lebanon
Major focus: Characterize the Lebanese strain of *Bacillus thuringiensis* (Lip)
- Among the BT strains used to produce biopesticides, Lip was the most toxic. We tried to determine the cause of this over toxicity
- Generate mutations in the sporulation genes to produce ecofriendly biopesticides

2009 – 2010 : Internship
Ecole Supérieure des Ingénieurs de Beirut – Lebanese ministry of environment - UNDP - Beirut, Lebanon
Major focus: stabilization and solidification of highly contaminated sands with quicklime.

Posters, presentations and formations

Posters:
2015 – 2016: CBS2 annual PhD students meeting **(Best poster award)**
Second international p53 isoforms conference, Aix-en-Provence, France
2014 – 2015: Cancéropôle Grand-Sud Ouest meeting, Toulouse, France
CBS2 annual PhD students meeting
2013 – 2014: CRBM retreat

Presentations:
2020 - 2021: SIMR internal seminar, Sharjah, UAE
2015 – 2016: CRBM annual PhD students meeting, Montpellier, France
2016 – 2015: CRBM annual PhD students meeting, Montpellier, France

Formations:
Laboratory safety skills
Preparing research project and taking notes on scientific literature
Communiquer auprès des recruteurs : marketing du soi, entretiens de recrutement

Leadership

2017 – present: twinning between Montpellier city (France) and Bmahray village (Lebanon)
2010 – 2011: responsible for the faculty's cultural affairs
2009 – 2010: student front's vice president
2007 – 2008: responsible for the faculty external affairs

Grants acquisition

2020 – 2022: competitive research project funding (No 2001050156)
2015 – 2016: Fondation ARC pour la recherche sur le cancer

List of publications

Lara J. Bou Malhab, Maha M. Saber-Ayada, Ranyah Al Hakm, Vidhya A Naira, Panagiotis Paliogiannis, Gianfranco Pintusa, and Wael M. Abdel-Rahmana. *The role of vascular inflammation in cancer development and metastasis*. *Vascular inflammation & cancer (accepted)*

El-Huneidi W, Shehab NG, Bajbouj K, Vinod A, El-Serafi A, Shafarin J, **Bou Malhab LJ**, Abdel-Rahman WM, Abu-Gharbieh E. Micromeria fruticosa Induces *Cell Cycle Arrest and Apoptosis in Breast and Colorectal Cancer Cells. Pharmaceuticals (Basel). 2020 Jun 3;13(6):115. doi: 10.3390/ph13060115. PMID: 32503209; PMCID: PMC7345572*

Malhab LJ, Descamps S, Delaval B, Xirodimas DP. *The use of the NEDD8 inhibitor MLN4924 (Pevonedistat) in a cyclotherapy approach to protect wild-type p53 cells from MLN4924 induced toxicity. Sci Rep. 2016;6:37775. Published 2016 Nov 30. doi:10.1038/srep37775*

Bailly, A., Perrin, A., **Bou Malhab, L.** et al. *The NEDD8 inhibitor MLN4924 increases the size of the nucleolus and activates p53 through the ribosomal-Mdm2 pathway.Oncogene 35, 415–426 (2016). https://doi.org/10.1038/onc.2015.104*

Amina Laham, Fatema Omar, Dana Zaher, Arya Vinod, Vidhya Nair, Maha Guimei, **Lara J Bou Mahlab**, Thenmozhi Venkatachalam, Hany Omar, Wael Hassan Abdel-Rahman, Maha Saber-Ayad. *The anti-diabetic glucagon-like peptide-1 receptor agonist inhibits the viability of breast cancer cells by suppressing the MAPK and NFkB pathways (under submission)*

Lara J. Bou Malhab, Emmanuelle Pion, Gilles Gadea, Susanne Schmidt, Pierre Roux, Anne Debant & Dimitris Xirodimas. *A p53 independent role of Mdmx in cell invasion. (under submission)*

Lara J. Bou Malhab, Vidhya Anish Nair, Wael Abdel-Rahman Hassan. *Obesity promotes tumor development and drug resistance in colon and breast cells. (manuscript in preparation)*

Lara J. Bou Malhab, Wael Abdel-Rahman Hassan. *Obesity and inflammation: CRC engines. (under submission)*

Expert report: *stabilization of highly contaminated sands with quicklime, july 2009.*