



Samer ABDALLAH

Doctor in Biology and Health "Research thesis in Cancer biology"

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PROFESSIONAL EXPERIENCES

August 2016- Now: **Assistant professor** at both Science and Medicine faculties in An-Najah National University in Nablus- Palestine

October 2012- 2016: **PhD research** under the direction of Dr. Pierre Roux at CRBM-CNRS UMR 5237 Montpellier Laboratory in co-direction with Prof. Georgia BARLOVATZ (Dynamics team in Evry)

PhD thesis: "Regulation of the detachment and migration of epithelial cancer cells by the inhibitor of the activator of plasminogen (PAI-1)"

January-May 2012: **Prof. of practical work in Biology** "Biology I and II" at the University of Al-Najah University in Nablus- Palestine

January-July 2011: **Trainee** at the CNRS under the direction of Dr. Jean Cohen in Gif sur Yvette, Paris, France

Master thesis title: « Functional study of human MKS2 gene in paramecium »

July -August 2010: **Trainee** at CNRS under the direction of Jean Cohen in Gif sur Yvette, Paris, France

- Determining the localization of a human MKS2 protein in Paramecium

End February July 2009: **Project Coordinator**, Ministry of Education, Ramallah (West Bank)

- project monitoring

September to January 2008: **Project Coordinator**, Near East Consulting, Ramallah (West Bank)

- Mediation with the team on the field
- Program Design for information analysis
- Arabic-English translation and English-Arabic

ACADEMIC ACHIEVEMENTS

PhD in Biology and Health « Cell biology »

Faculty of Science- University of Montpellier, France

PhD thesis title : "Regulation of the detachment and migration of epithelial cancer cells by the inhibitor of the activator of plasminogen (PAI-1)"

Master 2 in Biology and Health « Cell biology, Genetics and Development »

Faculty of Science, University Paris Sud XI, Paris, France

Master thesis title : "Functional study of human MKS2 gene in paramecium »

Master 1 in Biology and Health

Faculty of Science, University Paris Sud XI, Paris, France

Bachelor (B.A.) in Biology and Biotechnology

Faculty of Sciences, Arab American University in Jenin, West Bank, Palestine

Average: 3,52/4 with very Good Standing, Rank: 4/24

High school (Tawjihi)- Scientific branch

Latin Patriarchate School in Zababdeh, West Bank, Palestine

Average: 94,5/100

Taught courses

- Cell Biology
- Molecular biology
- Histology
- Special topics (Cancer biology)
- Biology I for health sciences' students
- General biology for science students
- Biology II
- Biology I lab
- Biology II lab
- General biology for science students lab
- Molecular Biochemistry lab
- Histology Lab
- Seminar

OTHER TRAININGS

15 - 19 December 2014: "teaching training" at Telecom Business School at Evry in Paris.

12 - 16 May 2014: Training "Intensive English Course" at the University of Evry Val d'Essonne, Paris.

4 - 7 November 2013: Training and EU4 module M2 « vascular aging and neuroendocrine, Alzheimer's disease » in Psychiatry and Neurosciences center in INSERM center (UMR-894) in Paris.

PROFESSIONAL & PERSONAL SKILLS

Cell and Molecular Biology Skills:

- Human cancer cell culture (epithelial, mesenchymal)
- Paramecium cell culture
- 3D invasion test : spheroid sprouting assay
- 2D invasion test : wound healing assay
- cDNA cloning in bacterial and eukaryotic expression vectors
- Transfection of siRNA in eukaryotic cells
- Directed Mutagenesis PCR
- Extracting DNA & RNA
- Gene expression analysis by quantitative real time RT-PCR
- Classic PCR
- Directed Mutagenesis by PCR

Imaging Skills:

- Image monitoring and acquisition : phase-contrast, epi-fluorescent, confocal (up-right and inverted videomicroscopy)
- Image processing softwares: signal, shape and size quantifications
 - ImageJ :
 - Metamorph
 - Imaris: images reconstruction in 3D and 4D dimensions

Biochemistry Skills:

- Western Blot
- Immunofluorescence

Statistical analysis Skills:

- Prism Software
- Excel

Computer Skills:

- Microsoft Office (Word, Excel, Powerpoint ...)
- Research and use of scientific resources on internet (NCBI PubMed)

- 1- Sawalha S, **Abdallah S**, Barham A, Badawi H, Barham Z, Ghareeb A, Misia G, Collavini S, Silvestri A, Prato M, Assali M. **Green synthesis of fluorescent carbon nanodots from sage leaves for selective anticancer activity on 2D liver cancer cells and 3D multicellular tumor spheroids**. *Nanoscale Adv.* 2023 Sep 28;5(21):5974-5982. doi: 10.1039/d3na00269a. PMID: 37881717; PMCID: PMC10597557.
- 2- Nidal Jaradat, Murad Abualhasan, Mohammed Hawash, Mohammad Qadi, Nawaf Al-Maharik, **Samer Abdallah**, Ahmed Mousa, Abdelrazaq Zarour, Mohammad Arar, Shorooq Sobuh, Fatima Hussein, Linda Issa, Adan Jaber, Haya Hamduni & Sarit Alshahatit. **Chromatography analysis, in light of vitro antioxidant, antidiabetic, antiobesity, anti-inflammatory, antimicrobial, anticancer, and three-dimensional cancer spheroids' formation blocking activities of *Laurus nobilis* aromatic oil from Palestine**. *Chem. Biol. Technol. Agric.* 10, 25 (2023). <https://doi.org/10.1186/s40538-023-00396-6>
- 3- Hawash, M.; Qaoud, M.T.; Jaradat, N.; **Abdallah, S.**; Issa, S.; Adnan, N.; Hoshya, M.; Sobuh, S.; Hawash, Z. **Anticancer Activity of Thiophene Carboxamide Derivatives as CA-4 Biomimetics: Synthesis, Biological Potency, 3D Spheroid Model, and Molecular Dynamics Simulation**. *Biomimetics* 2022, 7, 247. <https://doi.org/10.3390/biomimetics7040247>
- 4- Amer J, Salhab A, Jaradat N, **Abdallah S**, Aburas H, Hattab S, Ghanim M, Alqub M. **Gundelia tournefortii inhibits hepatocellular carcinoma progression by lowering gene expression of the cell cycle and hepatocyte proliferation in immunodeficient mice**. *Biomed Pharmacother.* 2022 Dec;156:113885. doi: 10.1016/j.biopha.2022.113885. Epub 2022 Oct 18. PMID: 36265306.
- 5- **Constituents, Antibacterial Adhesion, Cytotoxic and in Vitro Metastasis Blocking Properties of *Salvia fruticosa* Essential Oils from Three Palestinian Localities**. N Jaradat, S Abdallah, N Al-Maharik, M Altamimi, M Hawash, M Qneibi, Abeer Abu Khair, Anaal Zetawi, Leena Jabarin. 2022. *Chemistry & Biodiversity*, e202100872
- 6- ***Nepeta curviflora* essential oil: Phytochemical composition, antioxidant, anti-proliferative and anti-migratory efficacy against cervical cancer cells, and α -glucosidase, α -amylase and porcine pancreatic lipase inhibitory activities**. N Jaradat, N Al-Maharik, S Abdallah, R Shawahna, A Mousa, A Qtishat. 2020. *Industrial Crops and Products* 158, 112946
- 7- **Samer Abdallah***, Ibrahim Abu-Reidah, Ahmed Mousa, Tamara Abdellatif. ***Rhus coriaria* (Sumac) extract reduces migration capacity of uterus cervix cancer cells** <https://doi.org/10.1016/j.bjp.2019.06.004>
- 8- Gadea, N Arsic, K Fernandes, A Diot, SM.Joruiz, **S Abdallah**, V Meuray, S Vinot, C Anguille, J Remenyi, MP Khoury, P Quinlan, CA Purdie, LB Jordan, FV Fuller-Pace, M de Toledo, M Cren, AM Thompson, JC Bourdon, and P Roux. **TP53 drives invasion through expression of its $\Delta 133p53\beta$ variant**. DOI: <http://dx.doi.org/10.7554/eLife.14734>
- 9- Mohamed Jemaà, **Samer Abdallah**, Gwendaline Lledo, Frederic Chibon, Gaelle Perot, Tom Lesluyes, *Pierre Roux*, Nathalie Morin, and Ariane Abrieu. **Heterogeneity in sarcoma cell lines reveals enhanced motility of tetraploid versus diploid cells**. DOI: 10.18632/oncotarget.14291
- 10- A Aubusson-Fleury, M Lemullois, H Bengueddach, **S Abdallah**, L Shi, J Cohen, AM Tassin & F Koll. **Transition zone: the sequential assembly of its components parallels its dual role in basal body anchoring and ciliary function**. *Cilia* 4 (Suppl 1), P26 (2015). <https://doi.org/10.1186/2046-2530-4-S1-P26>
- 11- **My thesis: S Abdallah**, G Barlovatz-Meimon, V Gire* and P Roux*. **PAI-1 promotes tumour cell detachment in clusters leading to collective cell invasion through a ROCK and JAK dependent signalling**

COMMUNICATION AT SCIENTIFIC CONFERENCES

Samer ABDALLAH, Georgia BARLOVATZ, Pierre ROUX* and Véronique GIRE*

Poster title: Extracellular PAI-1 promotes epithelial cancer cell invasion through cell clusters detachment via ROCK & Jak-dependent signalling. **Young Researchers Days conference organized by ARC foundation for research against cancer**: 03-04 november 2015 – Cité Universitaire, Paris, FRANCE

Samer ABDALLAH, Georgia BARLOVATZ, Pierre ROUX* and Véronique GIRE*

Poster title: Extracellular PAI-1 promotes epithelial cancer cell invasion through cell clusters detachment via ROCK & Jak-dependent signalling. **Integrated Mechano-Chemical Signals in Cancer Invasion conference**: 16-20 October 2015 - Saint-Paul-de-Vence, Nice, FRANCE

Fanny TOMAS, **Samer ABDALLAH**, Nikola ARSIC, Pierre ROUX and Véronique GIRE.

Poster title: $\Delta 133\beta$ isoform regulates cell proliferation in primary human fibroblasts.

“**P53 isoforms meeting**” conference: 20-23 Septembre 2015 - Aix en provence, FRANCE

A. Aubusson-Fleury; M. Lemullois; H. Bengueddah; **S. Abdallah**; L. Shi; J. Cohen; F. Koll. Poster Title: Transition zone: the sequential assembly of its components parallels its dual role in basal body anchoring and ciliary function. EMBO conference “ **Centrosomes and Spindle Pole Bodies**” : 30 september-3 october 2014, Lisbonne, Portugal

A. Aubusson-Fleury; M. Lemullois; H. Bengueddah; **S. Abdallah**; L. Shi; J. Cohen; F. Koll. Poster Title: Transition zone: the sequential assembly of its components parallels its dual role in basal body anchoring and ciliary function. **Cilia conference**: 18-21 november 2014, Lisbonne, Portugal

LANGUAGES

- French : proficiency (C2 level)
- English: proficiency (C2 level)
- Arabic : Native language

ACADEMIC & PROFESSIONAL AWARDS

October 2017 -30 September 2018: **Financial support for scientific research** from An- Najah national university - Palestine

October 2012 -30 September 2015: **shared scholarship between AI-Najah University in Palestine and the French government** for three years of thesis

September 2009-July 2011: **BGF French government scholarship** for master studies at Paris XI

August-September 2009: **French government grant** for intensive French courses at the institute in Paris Cachan

CONTACT INFO

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