Joseph SIBLINI

Ph.D.

CONTACT

Joseph.Siblini@igbmc.fr

Strasbourg

ResearchGate

Linkedin

PERSONAL INFORMATIONS

Date of birth : 27 years old

Driver's license: B permit

Nationality: French

CERTIFICATIONS

University Diploma in Animal Experimentation - Designer Level

Civil Prevention and Rescue Level 1

AWARDS

Winner of the "**Lydie et Michel WITTNER**" Prize for the year 2022 (Fondation de France)

LANGUAGES

French (DELF B2 - 2017)

English (TOEFL B2/C1 - 2018)

Arab (native language)

WORK EXPERIENCE

Postdoctoral researcher — 2023-Present

Institute of Genetics and Molecular and Cellular Biology (**IGBMC**) - Séraphin's team
Research

PhD student — 2019-2022

Nutrition-Genetics and Exposure to Environmental Risks (**NGERE**)/Biology, Health, and Environment (**BioSE**)/University of Lorraine (**UL**)

Higher education teaching and research

Higher education teacher — 2021-2022

Faculty of Pharmacy - UL

Practical work: Molecular biology

Higher education teacher — 2020-2021

Faculty of Medicine - UL

Supervised work: Proteins - Enzymology

Master 2 internship — 2018-2019

NGERE

"Influence of radiotherapy as a cellular stress model on the DNA methylation pattern of one-carbon metabolism genes in cancerous cell lines and its relationship with methionine dependency"

EDUCATION

PhD in Health and Life Sciences — 2019-2022

University of Lorraine

Genome-wide and MMACHC gene promoter epivariations induced by cellular stress factors and aberrant antisense transcription in normal, pluripotent, and cancer cells

International Master 2 in RNA and Enzyme Sciences — 2018-2019

University of Lorraine

80.73/100 (**3rd place**)

Master 1 in Cellular Biology and Physiology — 2017-2018

Lebanese University - Lebanon

79.73/100

Bachelor's degree in Life and Earth Sciences — 2014-2017

Lebanese University - Lebanon

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COLLECTIVE RESPONSIBILITIES

Representative of PhD students

2021-2022

Doctoral School of Biology, Health, Environment (**BioSE 266**)

Lorraine College of Doctoral Schools (**CLED**)

Nutrition-Genetics and Exposure to Environmental Risks (**NGERE**) Laboratory

Vice President

2020-2022

Association of PhD Students of the University of Lorraine (**AD'UL Team**)

Deputy referent molecular biology sector

2020-2022

NGERE Laboratory

LABORATORY TECHNIQUES

- **Cell culture** (cancer cells, tumorospheres, induced pluripotent stem cells (iPSCs), embryoid bodies, generation of iPSCs)
- **RT-qPCR/RT-PCR/PCR**
- **Western Blot/Wes/Immunoprecipitation**
- **Methylome/RNA-seq**
- **Cloning and sequencing**
- **Immunofluorescence** (epifluorescence Microscopy- confocal microscopy)
- **Flow cytometry**
- **CRISPR-Cas9** (knockout/mutation correction)
- **shRNA** (knockdown)

PUBLICATIONS AND COMMUNICATIONS

- **5 published articles** including 2 as the first author and **1 article in preparation**
- **5 national and international communications**

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PUBLICATIONS

Ionizing radiations induce shared epigenomic signatures unraveling adaptive mechanisms of cancerous cell lines with or without methionine dependency.
Siblini Y, Chéry C, Rouyer P, Raso J, Julien A, Hergalant S, François A, Bezdetnaya L, Vogin G, Guéant JL, Oussalah A. Clin Epigenetics. 2021 Dec 1;13(1):212. doi: 10.1186/s13148-021-01199- y. PMID: 34852845; PMCID: PMC8638416.
(1st Author - **IF: 7.259**)

Stemness of Normal and Cancer Cells: The Influence of Methionine Needs and SIRT1/PGC1α/PPAR-α Players.
Siblini Y, Namour F, Oussalah A, Guéant JL, Chéry C. Cells. 2022 Nov 15;11(22):3607. doi: 10.3390/cells11223607. PMID: 36429035; PMCID: PMC9688847.
(1st Author - **IF: 7.666**)

Epimutations in both the TESK2 and MMACHC promoters in the Epi-cblC inherited disorder of intracellular metabolism of vitamin B12.
Oussalah A, **Siblini Y**, Hergalant S, Chéry C, Rouyer P, Cavicchi C, Guerrini R, Morange PE, Trégouët D, Pupavac M, Watkins D, Pastinen T, Chung WK, Ficicioglu C, Feillet F, Froese DS, Baumgartner MR, Benoist JF, Majewski J, Morrone A, Rosenblatt DS, Guéant JL. Clin Epigenetics. 2022 Apr 19;14(1):52. doi: 10.1186/s13148-022-01271-1. PMID: 35440018; PMCID: PMC9020039.
(2nd Author - **IF: 7.259**)

Epimutation in inherited metabolic disorders: the influence of aberrant transcription in adjacent genes.
Guéant JL, **Siblini Y**, Chéry C, Schmitt G, Guéant-Rodriguez RM, Coelho D, Watkins D, Rosenblatt DS, Oussalah A. Hum Genet. 2022 Jul;141(7):1309-1325. doi: 10.1007/s00439-021- 02414-9. Epub 2022 Feb 21. PMID: 35190856.
(2nd Author - **IF: 5.881**)

Genetic, epigenetic and genomic mechanisms of methionine dependency of cancer and tumor-initiating cells: What could we learn from folate and methionine cycles.
Guéant JL, Oussalah A, Zgheib R, **Siblini Y**, Hsu SB, Namour F. Biochimie. 2020 Jun;173:123- 128. doi: 10.1016/j.biochi.2020.03.015. Epub 2020 Apr 11. PMID: 32289469.
(4th Author - **IF: 4.372**)

Genome-wide and MMACHC gene promoter epivariations induced by cellular stress factors and aberrant antisense transcription in induced pluripotent stem cells.
Siblini Y, Chéry C, Alsaied R, Rouyer P, Renard P, Jost B, Jung M, Oussalah A, Guéant JL.
(**in preparation**)

COMMUNICATIONS

The Influence of Environmental Exposure on the methylation of MMACHC promoter through the induction of aberrant PRDX1 antisense transcript.
Siblini Y, Chéry C, Safar R, Rouyer P, Renard P, Oussalah A, Gueant JL.
Symposium CluB-12 – September 2022 ; Cambridge (England)

Ionizing Radiations Induce Shared Epigenomic Signatures Unraveling Adaptive Mechanisms of Cancerous Cell Lines With or Without Methionine-Dependency.
Siblini Y, Chéry C, Rouyer P, Raso J, Julien A, Hergalant S, François A, Bezdetnaya L, Vogin G, Guéant JL, Oussalah A.
13th International Conference One-Carbon Metabolism, B Vitamins and Homocystein – September 2021 ; Poznan (Poland)

Ionizing Radiations Induce Shared Epigenomic Signatures Unraveling Adaptive Mechanisms of Cancerous Cell Lines With or Without Methionine-Dependency.
Siblini Y, Chéry C, Rouyer P, Raso J, Julien A, Hergalant S, François A, Bezdetnaya L, Vogin G, Guéant JL, Oussalah A.
Summer school - **Epigenome in human health and diseases** (FASEB)–October 2021; Nancy (France)

Ionizing Radiations Induce Shared Epigenomic Signatures Unraveling Adaptive Mechanisms of Cancerous Cell Lines With or Without Methionine-Dependency.
Siblini Y, Chéry C, Rouyer P, Raso J, Julien A, Hergalant S, François A, Bezdetnaya L, Vogin G, Guéant JL, Oussalah A.
Scientific day of the BioSE doctoral school – 2022 ; Nancy (France)

Epigenetic induction of methionine dependence by cellular stress in the genesis of cancerous stem cells of melanoma, glioblastoma and hepatocarcinoma.
Siblini Y, Chéry C, Bezdetnaya L, Vogin G, Rouyer P, François A, Oussalah A, Guéant JL.
Scientific day of the BioSE doctoral school – 2020 ; Nancy (France)