

KFOURY Miriana

Date of birth: April 28th, 1990

Married, 2 children

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Current position Associate professor (chemistry)-University of the Littoral Opal Coast-ULCO

Professional experience

- Since 2021: Associate professor in chemistry - ULCO
- 2016-2021: Assistant professor in chemistry and biochemistry - Lebanese University
- 2015-2016: Temporary teacher and researcher (ATER) in chemistry - ULCO
- 2012-2015: PhD degree in Chemistry and Biotechnology - ULCO and Lebanese University

Research area

- Characterization of host/guest inclusion complexes in aqueous and non conventional media
- Development of analytical methods to characterize host/guest inclusion complexes
- Development of green binary and ternary formulations to retain and solubilize essential oils
- Evaluation of biological activities of formulations containing natural bioactive molecules

Recent key publications (Total number of publications: 23, h-index: 15)

1. M. Kfoury, D. Landy, S. Fourmentin. Combination of DES and macrocyclic host molecules: Review and perspectives. *Curr. Opin. Green Sustain.* **2022**, 36, 100630. DOI: <https://doi.org/10.1016/j.cogsc.2022.100630>.
2. J. Petitprez, F-X Legrand, C. Tams, J.D. Pipkin, V. Antle, M. Kfoury, S. Fourmentin. Huge solubility increase of poorly water-soluble pharmaceuticals by sulfobutylether- β -cyclodextrin complexation in a low-melting mixture. *Environ. Chem. Lett.* **2022**, 20, 1561-1568. DOI: 10.1007/s10311-022-01415-y.
3. L. Nakhle, M. Kfoury, I. Mallard, H. Greige-Gerges, D. Landy. Solubilization of *Eucalyptus citriodora* essential oil and citronellal in deep eutectic solvents: water:cyclodextrins mixtures. *J. Mol. Liq.* **2022**, 359, 119371. DOI: 10.1016/j.molliq.2022.119371.
4. L. Nakhle, M. Kfoury, H. Greige-Gerges, S. Fourmentin. Effect of dimethylsulfoxide, ethanol, α - and β -cyclodextrins and their association on the solubility of natural bioactive compounds. *J. Mol. Liq.* **2020**, 310, 113156. DOI: 10.1016/j.molliq.2020.113156.
5. L. Auezova, A. Najjar, M. Kfoury, S. Fourmentin, H. Greige-Gerges. Antibacterial activity of free or encapsulated selected phenylpropanoids against *Escherichia coli* and *Staphylococcus epidermidis*. *J. Appl. Microbiol.* **2020**, 128(3), 710-720. DOI: 10.1111/jam.14516
6. M. Kfoury, C. Geagea, S. Ruellan, H. Greige-Gerges, S. Fourmentin. Effect of cyclodextrin and cosolvent on the solubility and antioxidant activity of caffeic acid. *Food Chem.* **2019**, 278, 163-169. DOI: 10.1016/j.foodchem.2018.11.055.
7. M. Kfoury, L. Auezova, H. Greige-Gerges, S. Fourmentin. Encapsulation in cyclodextrins to widen the applications of essential oils. *Environmental Chem. Lett.* **2019**, 17(1), 129-143. DOI: 10.1007/s10311-018-0783-y.
8. M. Kfoury, D. Landy, S. Fourmentin. Contribution of headspace to the analysis of cyclodextrin inclusion complexes. *J. Incl. Phenom. Macro. Chem.* **2019**, 93, 19-32. DOI: 10.1007/s10847-018-0818-9.