VALLEE REHEL Karine

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Grade: PR Section CNU Cl 1: 31

Assignment Institution: University of South Brittany

Laboratory Biotechnology Laboratory and Chemistry Marines

Doctoral School: Doctoral School of the Marine Sciences

**Qualifications**

1993 Chemical Engineer of the National School of Chemistry of Rennes

1994 DEA Chemistry and Physical Chemistry of Polymers, Université Pierre et Marie Curie ( Paris VI)

1997 PhD: "New hydrolysable acrylic binders for antifouling paints without erodible tin derivatives ", Paris 12 Val de Marne.

2004 Habilitated to supervise PhD students: "Designing marine antifouling paints erodible: research on operational factors and studying their colonization by bacterial biofilms. " University of Southern Brittany

**Scientific skills within the CNU section**

\* Chromatography and mass spectrometry applied to biological molecules

\* Study of the factors influencing the development of bacterial biofilm on bioactive surfaces

\* Understanding the mechanisms of action of antifouling coatings

**Teaching activities**

Teaching of the analytical chemistry applied to the biomolecules from the license to the master level.

**Administrative duties**

Co-director of the Doctoral School of the Marine Sciences

Director of “sciences and technology “ department

**List of Publications 5 features specialty areas**

1. Le Norcy T., Zea Obando C., Hellio C., Linossier I., Faÿ F., Rehel K.\* 2019. A new method for evaluation of antifouling activity of molecules against microalgal biofilms using Confocal Laser Scanning Microscopy-Microfluidic Flow-cells. ***International Biodeterioration and Biodegradation***, 139, 54-61.(IF 3,631)
2. Faÿ F.\*, Gouessan M., Linossier I., Réhel K. 2019. Additives for Efficient Biodegradable Antifouling Paints. ***International Journal of Molecular Sciences***, *20*, 361; doi:10.3390/ijms20020361. (IF 3,687).
3. Scalabrini M., Hamon J., Linossier I., Ferrières V., Réhel K.\* 2019. Pseudomonas aeruginosa resistance of monosaccharide-functionalized glass surfaces. ***Colloids and Surfaces B: Biointerfaces***, 183, 110383. (IF 4,18)
4. [Zea-Obando](https://www.mdpi.com/search?authors=Claudia%20Zea-Obando&orcid=) C., [Tunin-Ley](https://www.mdpi.com/search?authors=Alina%20Tunin-Ley&orcid=) A., [Turquet](https://www.mdpi.com/search?authors=Jean%20Turquet&orcid=) J., [Culioli](https://www.mdpi.com/search?authors=G%C3%A9rald%20Culioli&orcid=0000-0001-5760-6394) G., [Briand](https://www.mdpi.com/search?authors=Jean-Fran%C3%A7ois%20Briand&orcid=0000-0001-8729-2621) JF., [Bazire](https://www.mdpi.com/search?authors=Alexis%20Bazire&orcid=) A., Réhel K.\*, [Faÿ](https://www.mdpi.com/search?authors=Fabienne%20Fa%C3%BF&orcid=) F., Linossier I. 2018. Anti-Bacterial Adhesion Activity of Tropical Microalgae Extracts. ***Molecules***, 23(9), 2180. https:// DOI:[10.3390/molecules23092180](https://doi.org/10.3390/molecules23092180" \t "_blank) (IF 3,268).
5. [Gillet](http://www.mdpi.com/search?authors=Guillaume%20Gillet&orcid=) G., [Azemar](http://www.mdpi.com/search?authors=Fabrice%20Azemar&orcid=) F.\*, [Faÿ](http://www.mdpi.com/search?authors=Fabienne%20Fa%C3%BF&orcid=) F., [Réhel](http://www.mdpi.com/search?authors=Karine%20R%C3%A9hel&orcid=) K., Linossier I. 2018. Non-Leachable Hydrophilic Additives for Amphiphilic Coatings. ***Polymers***, 10(4), 445. <https://doi.org/10.3390/polym10040445> (IF 3,509).