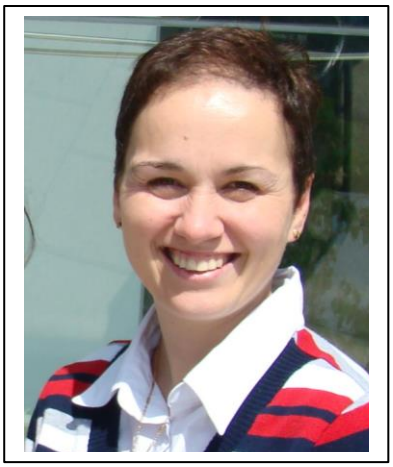
Upper Rhine Cluster
for Sustainability Research

Researchers Profil



GEOFFROY Valérie

Assistant-professor in Microbiology

Biotechnology Institute, Bacterial metal transport team, UMR 7242 CNRS, Strasbourg University

Expertise in relation to the topics of the URCforSR

- ***Microbial interaction with metal-containing minerals and environmental depollution***

-Ferret, C., Sterckemann, T., Cornu, J.-Y., Gangloff, S., Schalk, I. J., Geoffroy, V. A. 2014. Siderophore-promoted dissolution of smectite by fluorescent Pseudomonas. Environ Microbiol Rep. 6(5):459-67.

-Ferret, C., Cornu, J.Y.,Elhabiri, M., Sterckemann, T., Braud, A., Jezequel, K., Lollier, M., Lebeau, T., Schalk, I.J., Geoffroy, V. A. 2014. Effect of pyoverdine supply on cadmium and nickel complexation and phytoavailability in hydroponics. Environ Sci Pollu Res. 22(3):2106-16.

- ***Microbial transformation (metal complexation by organic compounds, siderophores)***

Cunrath, O., Geoffroy, V.A. , Schalk, I. J. 2015. Metallome of Pseudomonas aeruginosa: a role for siderophores. Environ Microbiol. Jul 3. doi: 10.1111/1462-2920.12971

- ***Member of the Alsacian Network of laboratories in Environmental sciences and Engineering (REALISE,*** *http://realise.unistra.fr/upload/media/bilan-REALISE.pdf)*

Special Interests in the topics of the URCforSR

- *Understanding natural process mediated by organism at the multi-scale environment (transfer of pollutant/soil/water/plants), impact on biodiversity and social behavior.*
- *Developing organisms-based technologies for contaminated resource rehabilitation*

What you are searching for regarding the cooperation within the URCforSR

- *To identify new partners interested in interdisciplinary projects on metals transformations in various environments and new process of remediation for waste or soils contaminated with metals*
- *To create new collaborations complementary to our group (http://irebs.cnrs.fr/spip.php?rubrique64)*