

1. Education and Employment

1.1. Biographical information

Name: Rizlan Bernier-Latmani

Address: Environmental Microbiology Laboratory
School of Architecture, Civil and Environmental Engineering
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Ecole Polytechnique Fédérale de Lausanne (EPFL)
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1.2. Higher education

Summer course: Advances in Genome Technology and Bioinformatics Course at the Marine Biology Laboratory in Woods Hole, MA. October 2005.

Ph.D. 2001 Civil and Environmental Engineering, Stanford University, CA
(*Advisor*, Jim Leckie, 'Biodegradation of uranyl (UO₂²⁺)-complexed citrate and implications for uranyl mobility in the subsurface')

M.S. 1995 Civil and Environmental Engineering, Stanford University, CA

B.S. 1993 Natural Resources with Honors, Cornell University, Ithaca, NY

1.3. Professional employment

2013- present *Associate professor*, School of Architecture, Civil and Environmental Engineering, Swiss Federal Institute of Technology, Lausanne

2005-2013 *Assistant professor tenure-track*, School of Architecture, Civil and Environmental Engineering, Swiss Federal Institute of Technology, Lausanne

2001-2005 *Post-Graduate Researcher*, Scripps Institution of Oceanography, La Jolla, CA (PI: Brad Tebo)

1.4. Academic honors

Teaching award 'Prix SIE d'excellence dans l'enseignement', 2019.

Rotary Foundation University Professor grant, 2004.

Swiss National Science Foundation Post-Doctoral Fellowship, 2001.

Leon B. Reynolds Memorial Scholarship at Stanford University, 1995-96.

Graduated with Honors from Cornell University, 1993.

2. Publication list

ResearcherID: E-4398-2011 (including 29 meeting abstracts)= 114 entries

ORCID: 1-6547-722X (including 52 meeting abstracts) = 137 entries

2.1. Original (peer reviewed) papers

2021

1. Molinas, M., Faizova, R., Brown, A. Galanzew, J., Schacherl, B., Bartova, B., Meibom, K.L., Vitova, T., Mazzanti, M., and **R. Bernier-Latmani**. (2021) Biological reduction of a U(V)-organic ligand complex. **Environmental Science and Technology**, doi: [10.1021/acs.est.0c06633](https://doi.org/10.1021/acs.est.0c06633)
2. Reid, M.C., Asta, M.P., Fals, L., Maguffin, S.C., Con Pham, V.H., Le H.A., **Bernier-Latmani, R.**, and P. Le Vo. (2021) Associations between inorganic arsenic in rice and groundwater arsenic in the Mekong Delta. **Chemosphere**. doi: [10.1016/j.chemosphere.2020.129092](https://doi.org/10.1016/j.chemosphere.2020.129092)

2020

3. Viacava, K., Meibom, K.L., Ortega, D., Dyer, S., Gelb, A., Falquet, L., Minton, N.P., Mestrot, A., and **R. Bernier-Latmani**. Variability in arsenic methylation efficiency across aerobic and anaerobic microorganisms. **Environmental Science and Technology**, v54, 14343-14351. [doi:10.1021/acs.est.0c03908](https://doi.org/10.1021/acs.est.0c03908)
4. Nazarova, T., Alessi, D., Janssen, D., **Bernier-Latmani, R.**, and C. Wanner. In situ biostimulation of Cr(VI) reduction in a fast-flowing oxic aquifer. **ACS Earth and Space Chemistry**, v4, 11, 2018-2030. <https://doi.org/10.1021/acsearthspacechem.0c00200>
5. Pan, Z., Bartova, B., LaGrange, T., Butorin, S.M., Hyatt, N.C., Stennett, M.C., Kvashinina, K.O., and **R. Bernier-Latmani**. (2020) Nanoscale mechanism of UO₂ formation through uranium reduction by magnetite. **Nature Communications**, v11, 4001 [doi: 10.1038/s41467-020-17795-0](https://doi.org/10.1038/s41467-020-17795-0)
6. Marion, S., Desharnais, L., Studer, N., Dong, Y., Notter, M.D., Poudel, S., Menin, L., Janowczyk, A. Hettich, R.L., Hapfelmeier, S., and **R. Bernier-Latmani**. (2020) Biogeography of microbial bile acid transformation along the murine gut. **Journal of Lipid Research**, v61 (9), [doi: 10.1194/jlr.RA120001021](https://doi.org/10.1194/jlr.RA120001021)
7. Faisova, R., Fadaei-Tirani, F., **Bernier-Latmani, R.**, and M. Mazzanti. (2020) Ligand supported facile conversion of uranyl(V) to uranium(IV) in organic and aqueous media. **Angewandte Chemie International Edition** v59, 1-6. doi: [10.1002/anie.201916334](https://doi.org/10.1002/anie.201916334)
8. Loreggian, L., Sorwat, J., Byrne, J.M., Kappler, A., and **R. Bernier-Latmani**. (2020) Role of iron sulfide phases in the stability of noncrystalline tetravalent uranium in sediments. **Environmental Science and Technology**, v54, 4840-4846. [doi: 10.1021/acs.est.9b07186](https://doi.org/10.1021/acs.est.9b07186)
9. Bell, E., Lamminmäki, T., Alneberg, J., Andersson, A.F., Qian, C., Xiong, W., Hettich, R.L., Fruttschi, M., and **R. Bernier-Latmani**. (2020) Active sulfur cycling in the terrestrial deep subsurface. *The ISME Journal* v14, 1260-1272. [doi: 10.1038/s41396-020-0602-x](https://doi.org/10.1038/s41396-020-0602-x)

2019

10. Loreggian, L., Novotny, A., Bretagne, S., Bartova, B., Wang, Y., and **R. Bernier-Latmani**. (2019) The effect of aging on the stability of microbially-reduced uranium in natural sediments. **Environmental Science and Technology**, [doi:10.1021/acs.est.8b07023](https://doi.org/10.1021/acs.est.8b07023).
11. Asta, M.P., Wang, Y., Fruttschi, M., Viacava, K., Loreggian, L., Le Pape, P., Vo, P.L., Fernández, A.M., Morin, G., and **R. Bernier-Latmani**. (2019) Microbially mediated release of As from

Mekong Delta peat sediments. **Environmental Science and Technology**, v53, 10208-10217, doi: [10.1021/acs.est.9b02887](https://doi.org/10.1021/acs.est.9b02887).

12. Dublet, G., Worms, I.A.M., Frutschi, M., Brown, A., Zünd, G.C., Bartova, B., Slaveykova, V.I., and **R. Bernier-Latmani**. (2019) Colloidal size and redox state of uranium species in the porewater of a pristine mountain wetland. **Environmental Science and Technology**, v53, 9361-9369, doi: [10.1021/acs.est.9b01417](https://doi.org/10.1021/acs.est.9b01417).
 13. List, C., Hosseini, Z., Meibom, K.L., Hatzimanikatis, V., and **R. Bernier-Latmani**. (2019) Impact of iron reduction on the metabolism of *Clostridium acetobutylicum*. **Environmental Microbiology**, 14640, doi: [10.1111/1462-2920.14640](https://doi.org/10.1111/1462-2920.14640).
 14. Boylan, A.A., Perez-Mon. C., Guillard, L., Burzan, N., Loreggian, L., Maisch, M., Kappler, A., Byrne, J.M., and **R. Bernier-Latmani**. (2019) H₂-fuelled microbial metabolism in Opalinus Clay. **Applied Clay Science**, v174, 69-76. doi: [10.1016/j.clay.2019.03.020](https://doi.org/10.1016/j.clay.2019.03.020)
 15. Tamindžija, D., Chromikova, Z., Spaić, A., Barak, I., **Bernier-Latmani, R.**, and D. Radnović. (2019) Chromate tolerance and removal of bacterial strains isolated from uncontaminated and chromium-polluted environments. **World Journal of Microbiology and Biotechnology**, v35, 56. doi: [10.1007/s11274-019-2638-5](https://doi.org/10.1007/s11274-019-2638-5)
 16. Phan, V.T.H., Bardelli, F., Le Pape, P., Couture, R.-M., Fernandez-Martinez, A., Tisserand, D., **Bernier-Latmani, R.**, and L. Charlet. (2019) Interplay of S and As in Mekong Delta sediments during redox oscillations. **Geosciences Frontiers**, v10, 5, 1715-1729. doi: [10.1016/j.gsf.2018.03.008](https://doi.org/10.1016/j.gsf.2018.03.008)
 17. Phan, V.T.H., **Bernier-Latmani, R.**, Tisserand, D., Bardelli, F., Le Pape, P., Frutschi, M., Gehin, A., Couture, R.-M., and L. Charlet. (2019) As release under the microbial sulfate reduction during redox oscillations in the upper Mekong delta aquifers, Vietnam: A mechanistic study. **Science of the Total Environment**, v663, 718-730. doi: [10.1016/j.scitotenv.2019.01.219](https://doi.org/10.1016/j.scitotenv.2019.01.219)
- 2018**
18. Marion, S., Studer, N., Desharnais, L., Menin, L., Escrig, S., Meibom, A., Hapfelmeier, S., and **R. Bernier-Latmani**. (2018) *In vitro* and *in vivo* characterization of *Clostridium scindens* bile acid transformations. **Gut Microbes**. doi: [10.1080/19490976.2018.1549420](https://doi.org/10.1080/19490976.2018.1549420).
 19. Bell, E., Lamminmäki, T., Alneberg, J., Andersson, A.F., Qian, C., Xiong, W., Hettich, R.L., Balmer, L., Frutschi, M., Sommer, G., and **R. Bernier-Latmani**. (2018) Biogeochemical cycling by a low-diversity microbial community in deep groundwater. **Frontiers in Microbiology**, v9, p 2129. doi: [10.3389/fmicb.2018.02129](https://doi.org/10.3389/fmicb.2018.02129)
 20. Meibom, K.L., Cabello, E., and **R. Bernier-Latmani**. (2018) The Small RNA RyhB is a regulator of cytochrome expression in *Shewanella oneidensis*. **Frontiers in Microbiology**, v9, p 268. doi: [10.3389/fmicb.2018.00268](https://doi.org/10.3389/fmicb.2018.00268)
 21. Wang, Y., Le Pape, P., Moring, G., Asta, M.P., King, G., Bartova, B., Suvorova, E., Frutschi, M., Ikogou, M., Pham, V.H.C., Vo, P.L., Herman, F., Charlet, L. and **R. Bernier-Latmani**. (2018) Arsenic speciation in Mekong Delta sediments depends on their depositional environment. **Environmental Science and Technology**, v52, 3431-3439. doi: [10.1021/acs.est.7b05177](https://doi.org/10.1021/acs.est.7b05177)
 22. Coral, T., Descostes, M., De Boissezon, H., **Bernier-Latmani, R.**, de Alencastro, L.F., and P. Rossi. (2018) Microbial communities associated with uranium in-situ recovery mining process are related to acid mine drainage assemblages. **Science of the Total Environment**, v628-629, p26-35. doi: [10.1016/j.scitotenv.2018.01.321](https://doi.org/10.1016/j.scitotenv.2018.01.321)

23. Sturm, G., Brunner, S., Suvorova, E., Dempwolff, F., Renier, J., Graumann, P., **Bernier-Latmani, R.**, Majzlan, J., and J. Gescher. (2018) Chromate resistance mechanisms in *Leucobacter chromiirestiens*. **Applied and Environmental Microbiology**, V84, 23, e2208-18. doi: [10.1128/AEM.02208-18](https://doi.org/10.1128/AEM.02208-18)

2017

24. Reid, M., Maillard, J., Bagnoud, A., Falquet, L., Le Vo P., and **R. Bernier-Latmani**. (2017) Arsenic methylation dynamics in a rice paddy soil anaerobic enrichment culture. **Environmental Science and Technology**, v 51, 10546-10554. doi: [10.1021/acs.est.7b02970](https://doi.org/10.1021/acs.est.7b02970)
25. Smart, N. R., Reddy, B., Rance, A. P., Nixon, D. J., Frutschi, M., **Bernier-Latmani, R.**, and N. Diomidis (2017) The anaerobic corrosion of carbon steel in compacted bentonite exposed to natural Opalinus Clay porewater containing native microbial populations. **Corrosion Engineering, Science and Technology**, v52:sup1, p101-112. doi:[10.1080/1478422X.2017.1316088](https://doi.org/10.1080/1478422X.2017.1316088)
26. Bhattacharyya, A., Campbell, K., Kelly, S., Roebbert, Y., Weyer, S., **Bernier-Latmani, R.** and T. Borch (2017) Biogenic non-crystalline U(IV) revealed as major component in uranium ore deposits. **Nature Communications**, v8, 15538. doi:[10.1038/ncomms15538](https://doi.org/10.1038/ncomms15538)
27. Leupin, O.X., **Bernier-Latmani, R.**, Bagnoud, A., Moors, H., Leys, N., Wouters, K., and S. Stroes-Gascoyne (2017) Fifteen years of microbiological investigation in Opalinus Clay: a potential host rock for geologic radioactive waste depository. **Swiss Journal of Geosciences**, v110, p. 343-354. doi:[10.1007/s00015-016-0255-y](https://doi.org/10.1007/s00015-016-0255-y)

2016

28. Studer, N., Desharnais, L., Beutler, M., Brurigoux, S., Terrazos, M., Menin, L., Schurch, C.M., McCoy, K.D., Kuehe, S., Minton, N.P., Stecher, B., **Bernier-Latmani, R.**, and S. Hapfelmeier (2016) Functional intestinal bile acid 7 α -dehydroxylation by *Clostridium scindens* associated with protection from *C. difficile* infection in a gnotobiotic mouse model. **Frontiers in Microbiology**, v6, 191.
29. Jamroskovic, J., Chromikova, Z., List, C., Bartova, B., Barak, I., and **R. Bernier-Latmani**. (2016) Variability in DPA and calcium content in the spores of Clostridium species. **Frontiers in Microbiology**, v7, p. 1791.
30. Wang, Y., von Gunten, K., Bartova, B., Meisser, N., Astner, M., Burger, M., and **R. Bernier-Latmani**. (2016) Products of *in situ* corrosion of depleted uranium ammunition in Bosnia and Herzegovina soils. **Environmental Science and Technology**, v50, 12266-12274.
31. Visser, M., Stams, A. J. M., Frutschi, M. and **R. Bernier-Latmani**. (2016) Phylogenetic comparison of *Desulfotomaculum* species of subgroup 1a and description of *Desulfotomaculum reducens* sp.nov. **International Journal of Systematic and Evolutionary Microbiology**, v66, p. 762-767.
32. Bagnoud, A., Chourey, K., Hettich, R.L., de Bruijn, I., Andersson, A.F., Leupin, O.X., Schwyn, B., and **R. Bernier-Latmani**. (2016a) Reconstructing a hydrogen-driven microbial metabolic network in Opalinus Clay rock. **Nature Communications**, v7, p12770.
33. Bagnoud, A., Leupin O.X., Schwynn, B., and **R. Bernier-Latmani**. (2016b) Rates of microbial hydrogen oxidation and sulfate reduction in Opalinus Clay rock. **Applied Geochemistry**, v72, 42-50.
34. Bi, Y., Stylo, M., **Bernier-Latmani, R.**, and K. F. Hayes. (2016) Rapid mobilization of

noncrystalline U(IV) coupled with FeS oxidation. **Environmental Science and Technology**, v 50, 3, 1403-1411.

35. Terzis, D., **Bernier-Latmani, R.**, and L. Laloui. (2016) Fabric characteristics and mechanical response of bio-improved sand to various treatment conditions. **Géotechnique Letters**, v 6, 1.
36. Bagnoud, A., I. De Bruijn, I., Andersson, A. F., Diomidis, N., Leupin, O. X. Schwyn, B., and **R. Bernier-Latmani** (2016c) A minimalistic microbial food web in an excavated deep subsurface clay rock. **FEMS Microbiology Ecology**, v 92, 1, p. fiv138.

2015

37. Stylo, M., Neubert, N., Wang, Y., Monga, N., Romaniello, S.J., Weyer, S., and **R. Bernier-Latmani**. (2015b) Uranium isotopes fingerprint biotic reduction. **Proceedings of the National Academy of Sciences of the United States of America**, v112, 18, 5619-5624.
38. Lezama Pacheco, J., Cerrato, J., Veeramani, H., Alessi, D., Suvorova, E., **Bernier-Latmani, R.**, Giammar, D. Long, P., Williams, K., and J. Bargar. (2015) Long-term in-situ oxidation of biogenic uraninite in an alluvial aquifer: impact of dissolved oxygen and calcium. **Environmental Science and Technology**, v49, 7340-7347.
39. Stylo, M., Neubert, N., Roebbert, Y., Weyer, S., and **R. Bernier-Latmani**. (2015a) Mechanism of uranium reduction and immobilization in *Desulfovibrio vulgaris* biofilms. **Environmental Science and Technology**, v49, 17, 10553–10561.

2014

40. Alessi, D.S., Lezama-Pacheco, J.S., Janot, N., Suvorova, E.I., Cerrato, J.M., Giammar, D.E., Davis, J.A., Fox, P.M., Williams, K.H., Long, P.E., Handley, K.M., Wrighton, K.W., Banfield, J.F., **Bernier-Latmani, R.** and J.R. Bargar. (2014) Speciation and reactivity of uranium products formed during *in situ* bioremediation in the Old Rifle, CO aquifer. **Environmental Science and Technology**, v48, 12842-12850. doi:10.1021/es502701u.
41. Dalla Vecchia, E.C., P. P. Shao, Suvorova E.I., Chiappe D., Hamelin, R. and **R. Bernier-Latmani**. (2014) Characterization of the surfaceome of the metal-reducing bacterium *Desulfotomaculum reducens*. **Frontiers in Microbiology**, v5, 432.
42. Dalla Vecchia, E.C., Visser, M., Stams, A. and **R. Bernier-Latmani**. (2014) Investigation of sporulation in the *Desulfotomaculum* genus: a genomic comparison with the genera *Bacillus* and *Clostridium*. **Environmental Microbiology Reports**, doi: 10.1111/1758-2229.12200.
43. Wang, Y., Bagnoud, A., Suvorova Buffat, E., McGivney, E., Chesaux, L. Phrommavanh, V., Descostes, M., and **R. Bernier-Latmani**. (2014) Geochemical control on uranium(IV) mobility in a mining-impacted wetland. **Environmental Science and Technology**, v48, 10062-10070. doi: 10.1021/es501556d.
44. *Jamroskovic, J., Shao, P. P., Suvorova Buffat, E., Barak, I. and **R. Bernier-Latmani**. (2014) Combined scanning transmission X-ray and electron microscopy for the characterization of bacterial endospores. **FEMS Microbiology Letters**, v358, 188-193. doi: 10.1111/1574-6968.12539. *on the cover
45. Shao, P.P, Comolli, L. R. and **R. Bernier-Latmani**. (2014) Membrane vesicles as a novel strategy for shedding encrusted cell surfaces. **Minerals**, v4, 74-88.
46. Alessi, D.S., Lezama-Pacheco, J.S., Stubbs, J.E., Janousch, M., Bargar, J.R., Persson, P. and **R. Bernier-Latmani**. (2014) The product of microbial uranium reduction includes multiple species with U(IV)-phosphate coordination. **Geochimica et Cosmochimica Acta**, v131, 115-127.

47. Dalla Vecchia, E.C., Suvorova E.I., Maillard J. and **R. Bernier-Latmani**. (2014) Fe(III) reduction during pyruvate fermentation by *Desulfotomaculum reducens* strain MI-1. **Geobiology**, v12, 48-61.

2013

48. Wang, Y., Frutschi, M., Suvorova, E., Phrommavanh, V., Descostes, M., Alfatih, A.A.O., Geipel, G. and **R. Bernier-Latmani**. (2013) Mobile uranium(IV)-bearing colloids in a mining-impacted wetland. **Nature Communications**, v4, 2942. doi: 10.1038/ncomms3942.
49. Stylo, M., Alessi, D.S., Shao, P.P., Lezama-Pacheco, J.S., Bargar, J.R. and **R. Bernier-Latmani**. (2013) Biogeochemical controls on the product of microbial U(VI) reduction. **Environmental Science and Technology**, v47, 12351-12358.
50. Cerrato, J.M., Ashner, M.N., Alessi, D.S., Lezama-Pacheco, J.S., **Bernier-Latmani, R.**, Bargar, J.R. and D.E. Giammar. (2013) Relative reactivity of uraninite and non-crystalline U(IV) species. **Environmental Science and Technology**, v47, 9756-9763.
51. Dobias, J. and **R. Bernier-Latmani**. (2013) Silver release from silver nanoparticles in natural waters. **Environmental Science and Technology**, v47, 9, 4140-4146.
52. Visser, M., Worm, P., Muyzer, G., Pereira, I., Schaap, O., Plugge, C.M., Kuever, J., Parshina, S., Nazina, T.N., Ivanova, A.E., **Bernier-Latmani, R.**, Goodwin, L.A., Kyrpides, N.C., Detter, J., Woyke, T., Chain, P., Davenport, K.W., Spring, S., Klenk, H.P. and A.J.M. Stams. (2013) Genome analysis of *Desulfotomaculum kuznetsovii* strain 17^T reveals a physiological similarity with *Pelotomaculum thermopropionicum* strain SI^T. **Standards in Genomic Science**, v8, 69-87.
53. Plathe, K., Lee, S., Tebo, B.M., Bargar, J.R. and **R. Bernier-Latmani**. (2013) Impact of microbial Mn oxidation on the remobilization of bio-reduced U(IV). **Environmental Science and Technology**, v47, 8, 3606-3613.
54. Bargar, J.R., Williams, K.H., Campbell, K.M., Long, P.E., Stubbs, J.E., Suvorova, E.I., Lezama-Pacheco, J.S., Alessi, D.S., Stylo, M., Webb, S.M., Davis, J.A., Giammar, D.E., Blue, L.Y., and **R. Bernier-Latmani**. (2013) Uranium redox transition pathways in acetate-amended sediments. **Proceedings of the National Academy of Sciences of the United States of America**, v110, 12, 4506-4511.
55. Alessi, D.S., Uster, B., Borca, C., Grolimund, D. and **R. Bernier-Latmani**. (2013) Beam induced oxidation of monomeric U(IV) species. **Journal of Synchrotron Radiation**, v20, 1, 197-199.

2012

56. Alessi, D. S., Uster, B., Veeramani H., Suvorova, E. I., Lezama-Pacheco, J. S., Stubbs, J. E., Bargar, J. R. and **R. Bernier-Latmani**. (2012) Quantitative separation of monomeric U(IV) from UO₂ in products of U(VI) reduction. **Environmental Science and Technology**, v46, 11, 6150-6157.
57. Spring, S., Lu, M., Copeland, A., Lapidus, A., Lucas, S., Cheng, J., Han, C., Tapia, R., Goodwin, L.A., Pitluck, S., Ivanova, N., Land, M., Hauser, L., Larimer, F., Rohde, M., Göker, M., Detter, J.C., Kyrpides, N.C., Woyke, T., Visser, M., Schaap, P., Plugge, C.M., Muyzer, G., Kuever, J., Pereira, I.A.C., Parshina, S.N., **Bernier-Latmani, R.**, Stams, A.J.M., Klenk, H.P. (2012) Complete genome sequence of the sulfate-reducing Firmicute *Desulfotomaculum ruminis* type strain (DL^T). **Standards in Genomic Science**, v7, 2, 304-319.

2011

58. Parker, D.L., Borer, P., and **R. Bernier-Latmani**. (2011) The response of *Shewanella oneidensis*

MR-1 to Cr(III) toxicity differs from that to Cr(VI). **Frontiers in Microbiological Chemistry**, v2, 223.

59. Campbell, K.M., Veeramani, H., Ulrich, K., Blue, L., Giammar, D., **Bernier-Latmani, R.**, Stubbs, J., Suvorova, E., Long, P.E., and J. R. Bargar. (2011) Oxidative dissolution of biogenic uraninite in groundwater at Old Rifle, CO. **Environmental Science and Technology**, v45, 20, 8748-8754.
60. Sharp, J.O., Schofield, E.J., Lezama-Pacheco, J.S., Webb, S., Ulrich, K., Blue, L., Chinni, S., Veeramani, H., Junier, P., Margot-Roquier, C., Suvorova, E.I., Tebo, B., Giammar, D.E, Bargar, J.R. and **R. Bernier-Latmani** (2011). Uranium speciation and stability after reductive immobilization in sediments. **Geochimica et Cosmochimica Acta**, v75, 6497-6510.
61. Dobias, J., Suvorova, E. and **R. Bernier-Latmani**. (2011). Role of proteins in controlling selenium nanoparticle size. **Nanotechnology**, v22, 195605.
[this article was selected for inclusion in the '2011 Highlights' collection of Nanotechnology]
62. Veeramani, H., Alessi, D.S., Suvorova, E.I., Lezama-Pacheco, J.S., Stubbs, J.E., Sharp, J.O., Dippon, U., Kappler, A., Bargar, J. R., and **R. Bernier-Latmani** (2011). Products of abiotic U(VI) reduction by biogenic magnetite and vivianite. **Geochimica et Cosmochimica Acta**, v75, 2512-2528.
63. Ulrich, K., Veeramani, H., **Bernier-Latmani, R.** and D. E. Giammar (2011). Speciation-dependent kinetics of uranium(VI) bioreduction. **Geomicrobiology Journal**, v28, 5-6, 396-409.
64. Junier, P., Dalla Vecchia, E. and **R. Bernier-Latmani** (2011). The response of *Desulfotomaculum reducens* MI-1 to U(VI) exposure: a transcriptomic study. **Geomicrobiology Journal**, v28, 5-6, 483-496.

2010

65. **Bernier-Latmani, R.**, Veeramani, H., Dalla Vecchia, E., Junier, P., Lezama-Pacheco J.S., Suvorova, E.I., Sharp, J.O., Stubbs, J.E., Wigginton, N.S., and J. R. Bargar. (2010) Non-uraninite products of microbial U(VI) reduction. **Environmental Science & Technology**, v44, 24, 9456-9462.
66. Dalla Vecchia, E., Veeramani, H., Suvorova, E.I., Wigginton, N.S., Bargar, J.R. and **R. Bernier-Latmani**. (2010) U(VI) reduction by spores of *Clostridium acetobutylicum*. **Research in Microbiology**, v161, 9, 765-771.
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3. Invited conference lectures

2020

1. **Bernier-Latmani, R.** Role of microorganisms in the Swiss repository concept. Presented at the Mont Terri Project Technical Meeting TM-38, January 29-30, 2020, in Porrentruy, Switzerland. *Keynote presentation*
2. **Bernier-Latmani, R.**, Brown, A., Pan, Z., Faizova, R., Sato, A., Roebbert, Y., Vitova, T., Mazzanti, M., Abe, M., and S. Weyer. Uranium isotopic fractionation during biotic reduction. Presented at the Goldschmidt conference, June 21-26, 2020, Virtual. *Keynote presentation*. <https://doi.org/10.46427/gold2020.177>
3. Pan, Z., Bartova, B., LaGrange, T., Kvashnina, K., Butorin, S., Hyatt, N., Stennett, M., and **R. Bernier-Latmani**. Nanoscale mechanism of formation of UO₂ through uranium reduction by magnetite. Presented at the Goldschmidt conference, June 21-26, 2020, Virtual. <https://doi.org/10.46427/gold2020.2020>

2019

4. Bartova, B., Brown, A., Molinas, M., Pan, Z., Lagrange, T., Faizova, R., Mazzanti M., Schacherl B., Beck A., Vitova T., Kvashnina, K., Roebbert, Y., Weyer, S., and **R. Bernier-Latmani**. Mechanistic insights into U(VI) reduction and the associated uranium isotopic fractionation. Presented at the Goldschmidt Conference, August 18-23, 2017, in Barcelona, Spain. *Keynote presentation*
5. Asta, M.P., Wang, Y., Fruttschi, M., Viacava, K., Loreggian, L., Le Pape, P., Vo, P.L., Fernandez A.M., Morin, G., and **R. Bernier-Latmani**. Microbially-mediated arsenic release from Mekong Delta sediments. Presented at the Goldschmidt Conference, August 18-23, 2017, in Barcelona, Spain.
6. **Bernier-Latmani, R.**, Loreggian, L., Molinas, M., Brown, A. and Z. Pan. Role of microbial processes in the environmental fate of uranium. Invited to present at the Migration Conference, September 15-20 2019, in Kyoto, Japan. (was unable to present due to family emergency). *Keynote presentation*

2018

7. **Bernier-Latmani, R.** The stability of non-crystalline U(IV) under oxic and suboxic conditions. Presented at the 255th American Chemical Society Spring meeting, March 18-22, 2018, in New Orleans, USA.
8. **Bernier-Latmani, R.** A diversity of deep terrestrial subsurface metabolic processes revealed by metaproteogenomics. Presented at the Swiss Society for Microbiology Annual Congress, August 28-30, 2018, in Lausanne, Switzerland.

2017

9. **Bernier-Latmani, R.**, Sulfur cycling in the deep subsurface in Olkiluoto, Finland. Presented at the International Workshop of Geomicrobiome: Subsurface Microbial Composition and Function and Microbial Interactions with Subsurface Environment, October 13-15, 2017, in Wuhan, China.
10. **Bernier-Latmani, R.**, Role of microbial processes in the environmental fate of uranium. Presented at the Goldschmidt Conference, August 13-18, 2017, in Paris, France. *Keynote presentation*
11. **Bernier-Latmani, R.**, Microbial metabolism in the deep subsurface of Olkiluoto, Finland. Presented at the Goldschmidt Conference, August 13-18, 2017, in Paris, France.
12. **Bernier-Latmani, R.**, Microbes to remediate uranium contamination. Actinide XAS 2017 Conference, April 11-13th in Oxford, UK.
13. **Bernier-Latmani, R.**, Microbial processes controlling the fate of uranium in the environment. 14th International Conference on the Biogeochemistry of Trace Elements (ICOBTE), July 16-20th, in Zurich, Switzerland. *Keynote presentation*.

2016

14. **Bernier-Latmani, R.** Bioremediation of uranium contamination in the subsurface. Presented at Frontiers in Environmental Radioactivity, January 6-7, London, UK. *Keynote presentation*.

2015

15. Stylo, M., Neubert, N., Roebbert, Y., Weyer, S., and **R. Bernier-Latmani**. Mechanism of uranium reduction in *Desulfovibrio vulgaris* biofilms. Presented at the Goldschmidt Conference in Prague, August 16-21, 2015.
16. **Bernier-Latmani, R.** Anthropogenic impact, fate and transport of uranium in the environment. Presented at the Strahlenschutz seminar, June 19, 2015, Bern, Switzerland.

2014

17. **Bernier-Latmani, R.** Mobile U(IV)-bearing colloids in a mining impacted wetland. Presented at Actinide XAS 2014, the 7th Workshop on Speciation, Techniques, and Facilities for Radioactive Materials at Synchrotron Light Sources, Schloss Böttstein, Switzerland, May 20-22, 2014.
18. **Bernier-Latmani, R.**, Stylo, M., Wang, Y., Shao, P., Bargar, J., Neubert, N. and S. Weyer. Controls on U(IV) speciation in biological and abiotic systems. Presented at 2014 Goldschmidt Geochemistry Conference, Symposium on Molecular-Scale Interactions of Organic and Inorganic Pollutants with Mineral, Organic, and Biological Surfaces. Sacramento, CA, USA, June 9-13, **2014**.
19. **Bernier-Latmani, R.**, U(IV) speciation as a result of biotic and abiotic U(VI) reduction. Presented at 2nd International workshop on "Advanced Techniques in Actinide Spectroscopy" in Dresden, Nov 3-7, **2014**. *Keynote presentation*.

2013

20. **Bernier-Latmani, R.**, Shao, P.P., Comolli, L.R., Bargar, J.R., Alessi, D.S. and M. Stylo. Microbial uranium reduction: a tale of two products. Swiss Society for Microbiology meeting, Interlaken, Switzerland, June 26-17, **2013**.
21. **Bernier-Latmani, R.**, Alessi, D.S., Shao, P.P., Stylo, M., Suvorova, E.I., Bargar, J.R., Lezama-Pacheco, J.S. "The remediation of aquifer U(VI) contamination using microorganisms". E-MRS 2013 Spring meeting, Strasbourg, May 27, 2013.

2012

22. Dalla Vecchia, E., Shao, P.P., Maillard, J. and **R. Bernier-Latmani**. Fe(III) reduction by the Gram-positive bacterium *Desulfotomaculum reducens*, Presented at 2012 Goldschmidt Geochemistry Conference, Symposium on Chemical and microbial electron transfer processes at mineral surfaces, Montreal, Canada, June 24-29, **2012**.
23. **Bernier-Latmani R.**, Alessi, D.S., Stylo, M., Lezama-Pacheco, J.S., Bargar, J.R. X-rays shine light on environmental clean-up: using synchrotron techniques for bioremediation. Presented at the International workshop on the management of radioactive waste: from transmutation to

bioremediation, Roma, Italy April 23, **2012**.

- 24. Bernier-Latmani, R.,** Alessi, D.S., Shao, P.P., Stylo, M., Lezama-Pacheco, J.S., Persson, P., Bargar, J.R. Formation, structure and stability of monomeric U(IV), a product of microbial U(VI) reduction. Presented at the 243rd National meeting of the American Chemical Society at a symposium on redox transformations of metals in sediments at molecular and pore scales, in San Diego, March, 25-29 **2012**

2011

- 25. Bernier-Latmani, R.,** Alessi, D.S., Veeramani, H., Sharp, J.O., Dalla Vecchia E.C., Suvorova, E., Stubbs, J.E., Lezama-Pacheco J.S., Bargar, J.R. Does the Electron Transfer Process Determine the Product of U(VI) Reduction? Presented at 2011 Goldschmidt Geochemistry Conference, Symposium on Chemical and microbial electron transfer processes at mineral surfaces. Prague, Czech Republic, August 14-19, **2011**.

2010

- 26. Bernier-Latmani, R.** Veeramani, H., Schofield, E., Sharp, J.O., Alessi, D., Uster, B., Suvorova, E.I., Bargar, J.R. Reduction of U(VI) by microorganisms: formation of nanoparticulate uraninite and other products. Presented at 2010 Mineralogical Society of America conference, symposium on structure, properties, and geochemistry of nanoparticles, nanoclusters, and nanocomposites in biogeochemical systems: In honor of Benjamin Gilbert, Recipient of the 2010 MSA Award, Denver, CO, October 30th, **2010**.

- 27. Bernier-Latmani, R.,** Dalla Vecchia, E., Junier, P., Lezama-Pacheco, J.S., Veeramani, H., Suvorova, E.I., Bargar, J.R., Alessi, D.S., Sharp, J.O., Wigginton, N.S. and Stubbs, J.E. Non-uraninite products for microbial U(VI) reduction. Presented at 2010 Goldschmidt Geochemistry Conference, Symposium on the Chemical and Biological Processes at Mineral Surfaces: Influence on Contaminant Dynamics. Knoxville, TN, June 14-18, **2010**.

- 28. Bernier-Latmani, R.,** Veeramani, H., Junier, P., Dalla Vecchia, E., Sharp, J.O., Suvorova, E. I., Lezama-Pacheco, J., Stubbs, J., Wigginton, N. S., and J.R. Bargar Complexed U(IV) is a product of microbial U(VI) reduction. Presented at the 239th ACS National Meeting, Symposium on Spectroscopic Investigations of Metal Interactions at Mineral/Water/Microbial Interfaces, San Francisco, CA, March 24th, **2010**.

2009

- 29. Bernier-Latmani, R.** Synchrotron-based characterization of the product of microbial U(VI) reduction. 22nd MAX-lab Annual User meeting, Lund, Sweden, November 2-4, **2009**.

- 30. Bernier-Latmani, R.,** Junier, P. Metal reduction in metal- vs. sulfate-reducing bacteria: insights from genomics and transcriptomics. Presented at the 2009 Goldschmidt Geochemistry Conference, Symposium on the genomics of geochemistry. Davos, Switzerland, June 21-26, **2009**.

- 31. Bernier-Latmani, R.,** Junier, P., Wigginton, N., Veeramani, H., Dalla Vecchia, E., Sharp, J.O., Schofield, E.J., Bargar, J.R. Reduction of U(VI) by spores of *Desulfotomaculum reducens*. 68th Swiss Society for Microbiology annual meeting in Lausanne, June 4-5, **2009**.

- 32. Bernier-Latmani, R.;** Sharp, J.O.; Veeramani, H.; Suvorova, E.I.; Bargar, J.R.; Mehta, A.; Ulrich, K-U.; Giammar, D.E. How do biogeochemical conditions affect the product of U(VI) reduction by bacteria? Presented at the 237th ACS National Meeting, Symposium on Metal and Metalloid Speciation and Adsorption in Honor of James O. Leckie, Salt Lake City, UT, March 24th, **2009**.

4. Meetings organized

1. **June 20-26, 2020:** Theme chair for Theme 11 for Goldschmidt 2020, Virtual (originally to take place in Hawaii).
2. **October 21-16, 2018:** Workshop on ‘Uranium biogeochemistry: transformations, isotopes and applications’ at Monte Verita in Ascona, Ticino (Switzerland) with Stefan Weyer, and Stephan Kraemer (<http://uranium-biogeo.epfl.ch>).
3. **May 7-9, 2018:** MIND (Microbes in Nuclear Disposal) meeting in Lausanne, Switzerland.
4. **August 13-18, 2017:** Help organize a session at Goldschmidt 2017 (session 3j: isotopic approaches to unravel the early evolution of oceans, the atmosphere, and life on Earth).
5. **July 16-20, 2017:** National Scientific Organizing Committee for ICOBTE 2017 (14th International Conference on the Biogeochemistry of Trace Elements) in Zurich.
6. **August 25-30, 2013:** Co-theme chair (with Thomas Borch) for Theme 16 ‘Geochemical impacts of human activity’ for Goldschmidt 2013.
7. **November 17, 2012:** Symposium at the 2012 Swiss Geosciences Meeting in Bern, Switzerland with Jasquelin Peña from University of Lausanne.
8. **June 24-29, 2012:** Symposium at the 2012 Goldschmidt meeting in Montreal, Canada: ‘Microbial transformations of radionuclides’ with Jon Lloyd.
9. **March 25-29, 2012:** Symposium at the 243rd American Chemical Society meeting in San Diego, CA, on ‘Coupled microbial-chemical processes and their impact on mineral formation and metal transformation’ with Danielle Fortin.
10. **March 11-16, 2012:** Workshop on ‘Uranium biogeochemistry: transformations and applications’ at Monte Verita in Ascona, Ticino with Stephan Kraemer (http://www.univie.ac.at/uranium_biogeochemistry/home.html).
11. **June 23-28, 2010:** Symposium at the 2010 Goldschmidt meeting in Knoxville, TN, ‘Microbial Biominerals: Structure, Formation and Applications’ with Danielle Fortin and Vernon Phoenix.
12. **May 20-21, 2010:** COST conference for working group 2 of Action D43 ‘Colloid and Interface Chemistry for Nanotechnology’ in Lausanne.
13. **July 13-18, 2008:** Symposium at the 2008 Goldschmidt meeting in Vancouver, Canada: ‘Molecular-Scale Chemical and Biogeochemical Processes Affecting the Mobility of Metal and Radionuclide Contaminants in the Subsurface’ with John Bargar, Dan Giammar and Brad Tebo.
14. **Since 2008:** help to organize a bi-annual a joint EPFL-UNIL seminar in microbiology geared to allowing Ph.D. students and post-docs an opportunity to present their work.

5. Research funding

- 2017-2023 ERC Consolidator grant. UNEARTH: Uranium Isotope Fractionation: a Novel Biosignature to Identify Microbial Metabolism on Early Earth. Sole PI.
- 2018-2022 Swiss National Science Foundation: Sinergia program: ‘Bile acid 7-dehydroxylating bacteria in the gut and their link to health and disease.’ Co-PI.

- 2020-2024 Swiss National Science Foundation: NCCR program 'Microbiomes' led by Jan van der Meer (UNIL) and Julia Vorholt (ETHZ). Co-PI.
- 2017-2020 Swiss National Science Foundation: 'Microbial iron reduction: mechanism, regulation, and environmental implications.' Lead and sole PI.
- 2016-2020 Swiss National Science Foundation: 'Designing pentavalent uranium species to uncover the mechanism(s) of environmental uranium reduction'. Co-PI.
- 2016-2019 National Cooperative for the Disposal of Radioactive Waste: 'Optimized design of backfill materials to allow in situ microbial gas oxidation'. Lead and sole PI.
- 2015-2019 EU Euratom program and SERI: 'MIND: microbes in nuclear disposal'. Co-PI
- 2016-2018 H2020 EU Marie Skłodowska-Curie Individual Fellowship: 'UMIC: Association of uranium with organic matter and iron bearing colloids in wetland environments. Awardee: Gabrielle Dublet.
- 2016-2019 Swiss National Science Foundation DACH program: 'Fate of tetravalent uranium under reducing conditions.' Co-PI.
- 2016-2018 Swiss National Science Foundation Div. II: 'Novel source of Arsenic in the Mekong Delta.' PI.
- 2015-2017 Posiva Oy (Finland): 'Reconstructing a microbial metabolic web using the microbial metagenome and proteome in Olkiluoto drillholes'. Lead and only PI.
- 2015-2018 Swiss National Science Foundation: 'Deconvoluting the role of biotic vs. abiotic processes in U(VI) reduction'. Lead and only PI.
- 2014-2017 Swiss National Science Foundation: 'Extracellular electron transfer by *Clostridium acetobutylicum* and *Shewanella oneidensis*'. Lead and only PI.
- 2014-2017 Swiss National Science Foundation: SCOPES program: 'The role of metal homeostasis, reduction and sporulation in the metal resistance of Gram-positive bacteria' Lead PI.
- 2014-2018 Swiss Federal Office of Civil Protection: 'Potential for mobilization of uranium from DU penetrators.' December 1st 2013– 30th November 2017. Lead PI.
- 2014-2016 Swiss National Science Foundation: 'Role of sulfur cycling in the release of arsenic from Mekong River Delta sediments.' Lead and only PI.
- 2014-2016 7th European Research Framework Program, Marie Curie CoFUND program: 'Microbial cycling of arsenic in rice paddies: environmental controls on arsenic methylation and implications for uptake into rice plants. Awardee: Matthew Reid.
- 2014-2015 National Cooperative for the Disposal of Radioactive Waste: 'Microbial sampling for the IC-A experiment at the Mt Terri rock Laboratory: first phase'. Lead and sole PI.
- 2013-2016 Swiss National Science Foundation: Sinergia program: 'In vivo germination of *Clostridium difficile* endospores: where, when and how?' Lead PI.
- 2013-2014 Swiss National Science Foundation: Division of Biology and Medicine: 'Environmental relevance of solid-phase iron reduction by Firmicutes'. Lead and sole PI.

- 2012-2015 Swiss National Science Foundation Ambizione project led by Daniel Alessi: ‘*In situ* Cr(VI) remediation in biostimulated natural sediments: mechanisms of formation, characterization, and long-term stability of reduced Cr(III) products.’
- 2012-2015 Swiss National Science Foundation: ‘Geo-mechanical investigations of bio-improved soils’. Co-PI with Lyesse Laloui.
- 2012-2015 Swiss National Science Foundation: Division of Mathematics, Natural Sciences and Engineering: ‘Characterization and mechanism of formation of monomeric U(IV)’. Lead and sole PI.
- 2011-2014 US Department of Energy: ‘Stanford Synchrotron Radiation Laboratory Scientific Focus Area’. Co-PI.
- 2011-2013 Areva (French nuclear company): Biogeochemical characterization of the fate of U and Ra in an acidic peat bog impacted by mine tailings. Lead and sole PI.
- 2010-2013 National Cooperative for the Disposal of Radioactive Waste: ‘Characterization of the metabolic capabilities of the microbial community in the Opalinus clay at the Mt Terri Rock Laboratory’. Lead and sole PI.
- 2010-2013 US Department of Energy: Subsurface Biogeochemical Research (SBR). ‘Manganese redox mediation of UO₂ stability and uranium fate in the subsurface: molecular and metal scale dynamics.’ Co-PI.
- 2010-2012 7th European Research Framework Program, Marie Curie Incoming International Postdoctoral Fellowship (IIF): ‘Microbial and geochemical factors influencing the speciation of uranium in the subsurface’. Awardee: Daniel S. Alessi.
- 2009-2009 National Cooperative for the Disposal of Radioactive Waste: Characterization of microbial growth with glycerol in Opalinus clay porewater. Lead and sole PI.
- 2009-2012 Swiss National Science Foundation: Biology and Medicine Division: ‘Metal reduction by the sulfate-reducing bacterium *Desulfotomaculum reducens*.’ Lead and sole PI..
- 2008-2011 US Department of Energy: ‘Stanford Synchrotron Radiation Laboratory: Scientific Focus Area’. Co-PI.
- 2008-2009 Swiss Federal Institute of Aquatic Science and Technology: Strategic collaboration grant: ‘Mechanisms of Interaction of Silver Nanoparticles with E. coli (MISE)’. Co-PI.
- 2006-2008 US Department of Energy: Environmental Remediation Science Program (ERSP). ‘Coupled Biogeochemical processes governing the stability of bacteriogenic uraninite and release of U(VI) in heterogeneous media: molecular to meter scales.’ Co-PI.
- 2006-2009 Swiss National Science Foundation: Biology and Medicine Division: ‘Microarray Investigation of U(VI) reduction by the novel sulfate-reducing bacterium *Desulfotomaculum reducens* MI-1.’ Lead and sole PI.
- 2006-2009 Swiss National Science Foundation: Division of Mathematics, Natural Sciences and Engineering: ‘Biogeochemical processes governing the stability of bacteriogenic uraninite with respect to oxidative dissolution’. Lead and sole PI.

6. Supervised PhD theses and contribution to careers

6.1. Ph.D. students

1. Harish Veeramani: July 2000- July 2010.

His doctoral thesis (EPFL thesis no. 4751) was entitled ‘Coupled biogeochemical processes for the reduction and immobilization of uranium’. He was a post-doctoral researcher in Michael Hochella’s laboratory at Virginia Polytechnic Institute and State University (Virginia Tech), USA then at The University of Waterloo in Canada. He is currently a research coordinator in the Faculty of Engineering and Design at Carleton University in Canada.

2. Jan Dobias: January 200- February 2013.

Jan worked on several aspects of the interactions of nanoparticles and the environment (EPFL Thesis no. 5614). He is currently an R&D scientific coordinator at Madep SA in Bevaix, Switzerland.

3. Elena Dalla Vecchia: January 2009- June 2014.

Elena worked on metal reduction by the Gram-positive bacterium *Desulfotomaculum reducens* (EPFL Thesis no. 6171). She is currently a Senior Editor for the Lancet Microbe (starting February 2020).

4. Alexandre Bagnoud: June 2010-August 2015.

Alexandre worked in the Mt. Terri underground rock laboratory in St. Ursanne, Switzerland. He set-up an in-situ bioreactor to evaluate the effect of amendments on the microbial community and its metabolic potential (EPFL Thesis no. 6727). He is now an HES academic assistant at Haute Ecole d’Ingénierie et Gestion du Canton de Vaud.

5. Malgorzata (Gosia) Stylo: November 2010- May 2015.

Gosia worked on the characterization of the reduced U species that is formed in the field and in the laboratory as a result of microbial processes. She used X-ray spectroscopy and isotope fractionation tools extensively (EPFL thesis no. 6610). Malgorzata is working with United Nations Environment Program as an Associate Program Management Officer at Chemicals and Health Branch.

6. Karim Hussain: January 2014-May 2015

7. Luca Loreggian: October 2014-December 2018.

Luca worked on the stability of biogenic tetravalent uranium produced by biostimulation in sediments under oxic and anoxic conditions. He used X-ray spectroscopy tools extensively. (EPFL Thesis no. 8952). He is currently a post-doctoral researcher at the Institute for Ecopreneurship of the University of Applied Sciences and Arts Northwestern Switzerland.

8. Cornelia List: May 2015-August 2019.

Cornelia worked on deciphering the mechanism of iron reduction by a Gram-positive bacterium, *Clostridium acetobutylicum* (EPFL Thesis no. 7107). She used mutagenesis and transcriptomics in her work.

9. Solenne Marion: August 2015- April 2020.

Solenne worked on a gut bacterium, *Clostridium scindens*. In particular, she probed its ability to carry out the 7-dehydroxylation of primary bile acids in the mammalian gut. She used protein expression, phenotypic characterization, and cultivation tools (EPFL Thesis no. 7350). She is currently a post-doctoral researcher at EML.

10. Carla Perez: October 2015- February 2017

11. Karen Viacava: February 2016- May 2020.

Karen worked on biomethylation of arsenic by paddy soil microorganisms. She used HPLC-ICP-MS to measure arsenic speciation and protein expression, mutagenesis and phenotypic characterization to probe which organisms are involved in methylation and to decipher the pathway involved. She was co-advised with Adrien Mestrot (EPFL Thesis no. 7638). She is currently a post-doctoral researcher at EML.

12. Niels Burzan: May 2016- March 2021

Niels worked on the impact of microbial activity on nuclear waste disposal. In particular, he ran field experiments in which he considered hydrogen consumption by sulfate-reducing biofilms and corrosion of steel by microorganisms (EPFL Thesis no. 8002).

13. Margaux Molinas: started December 2016- expected to graduate July 2021

Margaux worked on the role of pentavalent uranium in microbial uranium reduction. She combined synchrotron tools with protein expression and aqueous speciation tools.

14. Enio Zanchetta: July 2018 (primary advisor Prof. Katrin Beyer)-July 2019

15. **Simiao Wang**: started March 2020
16. **Hugo Sallet**: started May 2021
17. **Fatemeh Delghani**: started June 2021

6.2. Post-doctoral researchers and scientists

1. **Jonathan O. Sharp** Ph.D. in Environmental Engineering, UC Berkeley (2006-2008). Josh worked on characterizing the product of microbial U(IV) reduction and was able to show that monomeric U(IV) rather than uraninite formed in sediments. He is currently an Associate professor at Colorado School of Mines.
2. **Pilar Junier** Ph.D. in Microbiology, University of Chile (2006-2009). Pilar worked on uranium reduction by spores of *Desulfotomaculum reducens*. She is currently a professor at University of Neuchatel.
3. **Nicholas S. Wigginton** Ph.D. in Geochemistry, Virginia Tech (2008-2009). Nick worked on protein binding to silver nanoparticles. He was an associate editor at Science. Since 2016, he is Assistant Vice President for Research at the University of Michigan.
4. **Kelly L. Plathe** Ph.D. in Geochemistry, Virginia Tech (2010-2013). Kelly worked on the redox coupling between manganese and uranium.
5. **Paul P. Shao** Ph.D. in Structural Biology, Boston University (2010-2014). Paul is a cryo-microscopist by training and he has brought his expertise to the laboratory enabling the imaging of samples in a frozen hydrated state. In my laboratory, he was trained in scanning transmission x-ray microscopy and associated spectroscopy. He is now an Imaging & Analysis Specialist the Materials department at Princeton University.
6. **Daniel S. Alessi**. Ph.D. in Geochemistry, University of Notre Dame (2009-2013). Dan is working on various aspects of uranium reduction in the field and in the laboratory. He received a Marie Curie grant for two years and is now the recipient of an Ambizione grant from the Swiss National Science Foundation. He is now an Associate professor at the University of Alberta in Edmonton.
7. **Elena Suvorova**, Ph.D. in Physics in 1993 (electron microscopist) (2007-October 2015). Elena was the resident electron microscopist (employed at 25%). She carried out the microscopy that relates to mineralogical and compositional characterization of samples from the field and the laboratory.
8. **Yuheng Wang**, Ph.D. in Geochemistry, CNRS Paris (Jan 2011-December 2015). Yuheng worked on uranium speciation in a field site in France. And, a separate project on arsenic speciation in sediments in the Mekong Delta. He is now an Assistant Professor at the Northwestern Polytechnical University in Xi'an, China
9. **Karin Meibom**, Ph.D. in Molecular Biology in 1997, (March 1st 2013-present)- permanent staff
10. **Matthew Reid**, Ph.D. in Environmental Engineering in 2014 (July 2014-June 2016). Matt worked on Arsenic methylation. He now holds a position as an Assistant Professor at Cornell University.
11. **Maria Pilar Asta**, Ph.D. in Geology in (January 2015 to September 2018). Mapi worked on arsenic release by sediments in the Mekong Delta in Vietnam. She now holds a post-doc position at the University of Grenoble.
12. **Barbora Bartova**, Ph.D. in Material Science in 2005 (November 2015- present) permanent staff
13. **Emma Bell**, Ph.D. in Geomicrobiology in 2016 (February 2016- April 2019). She is a Post-doctoral Associate at University of Calgary, Canada.
14. **Gabrielle Dublet**, Ph.D. in Geochemistry in 2013 (October 2016-January 2019). She is now a researcher at the Norsk Geologisk Institut in Oslo, Norway.
15. **Aislinn Boylan**, Ph.D. in Biogeochemistry in 2017 (September 2017-August 2019). She is now a scientist at National Nuclear Laboratory in the UK.
16. **Zezen Pan**, Ph.D. in Environmental Engineering in 2017 (September 2017-March 2021). She is currently a tenure-track professor at the University of Fudan in China.
17. **Solenne Marion**, Ph.D. in Environmental Engineering in 2020 (June 2020-January 2021)
18. **Karen Viacava**, Ph.D. in Environmental Engineering in 2020 (July 2020-March 2021). She is currently a post-doc in Prof. Adrien Mestrot's lab at the University of Bern.
19. **Ashley Brown**, Ph.D. in Geomicrobiology in 2013 (September 2017-present)
20. **Eduard Vico Odon**, Ph.D. in Molecular Biology in 2018 (July 2019-present)
21. **Jiangtao Qiao**, Ph.D. in Environmental Engineering in 2018 (November 2020-present)

6.3. Technicians

1. **Manon Frutschi** (2005-present)
2. **Lyne Desharnais** (2014-2018)
3. **Leia Falquet** (June 2011-2014) and (June 2015-March 2017)
4. **Matthew Reeves** (September 2018-August 2020)
5. **Colin Volet** (August 2020-present)

6.4. Administrative assistant

1. **Sonja Desplos** (2006-2010)
2. **Maria Joao Fernandes Coelho** (2010-2020)
3. **Tania Gonin** (2020-present)

7. Other activities

- Chair of the ENAC Diversity Office: April 2021-present
- Commission on the Status of Women professors at EPFL: January 2019-July 2020 ([report](#))
- President of the ETH WPF (Women Professors Forum): March 2020-March 2021 ([report](#))
- CLIMACT Center *ad hoc* committee: 2019-present
- European Association of Geochemistry (EAG) Councillor: 2017-2020
- Co-vice chair for the ETH WPF (women professors forum): March 2016-March 2020
- Member of the CIME Executive Committee: 2016- present
- Member of the Advisory Committee for EPFL's Gender Equality Office: 2015-present
- Chair of ENAC Gender Equality Working group (ENGW): 2014-2020
- Member of the Bureau of the EPFL WISH foundation: 2014-2019
- Advisory board to the CUSO Microbiology Doctoral School: 2011-2016.
- PATT initiative committee at EPFL: October 2009-2013 ([report](#))
- CEAL (Central Environmental Laboratory) committee: March 2007-present.
- SSIE teaching committee: April 2006-2014
- Swiss representative for COST action CM0902: November 2009-2013
- Workgroup 4 leader for COST action CM0902: November 2009-2013
- ENAC media commission. March 2006-Dec 2007
- ISTE faculty search committee. April 2007-June 2007
- ENAC dean search committee. April 2007-Sept 2007