Promotion File

Prof. Rizlan Bernier-Latmani

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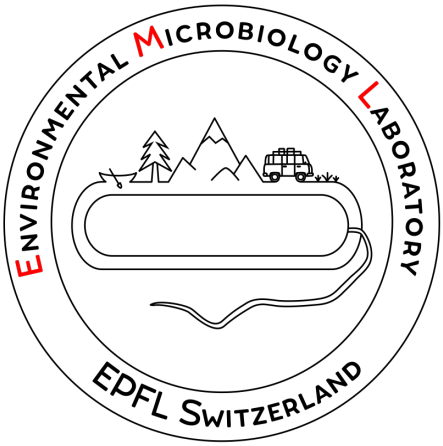

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1. Education and Employment

1.1. Biographical information

Name: Rizlan Bernier-Latmani

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Date of birth: 19th July 1972
Nationality: Swiss
Marital status: Married, 2 children (born 08.2011 and 05.2008)

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 (UO_2^{2+})-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

Member of Academia Europaea, 2023
ERC Consolidator Grant, 2017
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
ORCID: 1-6547-722X

2.1. Original (peer reviewed) papers

2026

1. Wang, S., Miele, F., Benettin, P., Frutschi, M., Cattry, M. Rossi, P., Jacquemin, N., Rinaldo, A. and **R. Bernier-Latmani** (2026) Spatially explicit impact of enhanced leaf litter leaching on the forest soil microbiome. Geoderma, 117747. doi: 10.1016/j.geoderma.2026.117747
2. Carbone, J., Bartova, B., LaGrange, Thomas, Reinhold, K., Leinders, G., Torruella, P., Hebert, C., Sassi, M., Rosso, K., and **R. Bernier-Latmani** (2026) Fingerprinting Uranium Oxides with Electron Energy Loss Spectroscopy Supported by Theoretical Computations. **The Journal of Physical Chemistry A,** 130, 11, 2329–2337. doi: 10.1021/acs.jpca.5c07789
3. Liu, E., Pan, Z., Wang, X., Chen, Y., Wang, S., Liu, P., Liu, Q., Feng, B., Wang, X., Fang, M., Dong, H., **Bernier-Latmani, R.,** Wang, Y., and Z. Wang (2026) Sulfidation unlocks dual reductive pathways in uranium immobilization by iron sulfide. **Environmental Science and Technology**, 60, 4, 3313-3325. doi: 10.1021/acs.est.5c18167

2025

4. Xia, Q., Joshi, P., Pan, Z., Lazarov, M., Barbora, B., Xu, X., Prüssmann, T., Kappler, A., Dong, H., Weyer, S., and **R. Bernier-Latmani** (2025) Mineral dynamics revealed by Fe2+-catalyzed recrystallization of uranium-incorporated goethite. **Environmental Science and Technology**, 59, 15, 25900-25910. doi: 10.1021/acs.est.5c11748

5. Sallet, H. Calvo, M., Titus, M., Jacquemin, N., Meibom, K.L., and **R. Bernier-Latmani** (2025) High-throughput cultivation and isolation of environmental anaerobes using selectively permeable hydrogel capsules. **ISME Communications**, 5, 1. ycaf117. doi: 10.1093/ismeco/ycaf117

6. Sallet, H. Kaiser, L., Titus, M., Calvo, M., Jacquemin, N., Meibom, K.L., and **R. Bernier-Latmani** (2025) Biosensor aided isolation of anaerobic arsenic-methylating bacteria from soil. **ISME Communications**, 5, 1, ycaf081. doi: 10.1093/ismeco/ycaf081

7. Jalil, A. Perino, A., Dong, Y., Imbach, J., Volet, C., Vico-Oton, E., Demagny, H., Plantade, L., Gallart-Ayala, H., Ivanisevic, J., **Bernier-Latmani, R**., Hapfelmeier, S., and K. Schoonjans (2025) Bile acid a-dehydroxylating bacteria accelerate injudry-induced mucosal healing in the colon. **EMBO Molecular Medicine**, 17, 889-908. doi: 10.1038/s44321-025-00202-w

8. Molinas, M., Meibom, K.L., Brown, A.R., Abriata, L.A., Prüssmann, T., and **R. Bernier-Latmani** (2025) Speciation-dependent molecular mechanism of electron transfer from the c-type cytochrome MtrC to U(VI)-ligand complexes. **Geo-Bio Interfaces**, 2, e2. doi: 10.1180/gbi.2024.10.

9. Jakus, N. Kulkani, P.V., Drehr, C.L., Bruggman, S., Grolimund, D., Kappler, A., Diomidis, N., Mischler, S., and **R. Bernier-Latmani** (2025) Impact of oxygen release from bentonite on microbial activity, mineralogy and steel corrosion. **Environmental Science and Technology**, 59, 47, 25368-25379. doi: 10.1021/acs.est.5c08788.

10. Rolland, C. Occelli, E., Abdelouhabi, M., Jacquemin, N., Bartova, B., Brown, A., Leupin, O. and **R. Bernier-Latmani** (2025) Impact of water saturation on microbial hydrogen consumption in porous media. **Environmental Science and Technology**. doi: 10.1021/acs.est.5c08683

11. Osswald, A., Wortmann, E., Wylensek, D., Kuhls, S., Coleman, O.I., Peuker, K., Strigli, A., Ducarmon, Q.R., Larralde, M., Liang, W., Treichel, N.S., Schumacher, F., Volet, C., Matysik, S., Kleigrwew, K., Gigl, M., Rohn, S., Guo, C., Kleuser, B., Liebisch, G., Schnieke, A., Ridlon, J.M., **Bernier-Latmani, R.,** Zeller, G., Zeissig, S., Hller, D., Filikowski, K., Clavel, T. and S.Ocvirk. (2025) Secondary bile acid production by gut bacteria promotes Wester-diet associated colorectal cancer. **Gut**. doi: 10.1136/gutjnl-2024-332243

2024

12. Brown, A.R., Molinas, M., Roebbert, Y., Faizova, R., Vitova, T., Sato, A., Hada, M., Abe, M., Mazzanti, M., Weyer, S., and **R. Bernier-Latmani** (2024) The isotopic signature of U(V) during bacterial reduction. **Geochemical Perspectives Letters**, 29, 1-6. doi: 10.7185/geochemlet.2411

13. Rolland, C., Burzan, N., Leupin, O.X., Boylan, A. A., Frutschi, M., Wang, S., Jacquemin, N., and **R. Bernier-Latmani** (2024) Microbial hydrogen sinks in the sand-bentonite backfill material for the deep geological disposal of radioactive waste. **Frontiers in Microbiology**, 15:1359677. doi: 10.3389/fmicb.2024.1359677

14. Pan, Z., Loreggian, L., Roebbert, Y., Bartova, B., Hunault, M.O.J.Y., Weyer, S., and **R. Bernier-Latmani** (2024) Pentavalent U reactivity impacts U isotopic fractionation during reduction by magnetite. **Environmental Science and Technology,** 58, 15, 6595–6604. doi: 10.1021/acs.est.3c10324

15. Meibom, K.L., Marion, S., Volet, C., Nass, T., Vico-Oton, E., Menin, L., and **R. Bernier-Latmani** (2024) BaiJ and BaiB are key enzymes in the chenodeoxycholic acid 7a-dehydroxylation pathway in the gut microbe *Clostridium scindens* ATCC 35704. **Gut Microbes**, 16:1. doi: 10.1080/19490976.2024.2323233

16. Janot, N., Dunham-Cheatham, S.M., Lezama Pacheco, J.S., Cerrato, J.S., Alessi, D.S., Noel, V., Lee, E., Pham, D.Q., Suvorova, E., **Bernier-Latmani, R**., Williams, K.H., Long, P.E., and J.R. Bargar (2024) Reducing conditions influence U(IV) accumulation in sediments during in situ bioremediation. **ACS Earth and Space Chemistry**, 8, 148-158. doi; 10.1021/acsearthspacechem.3c00271

17. Qiao, J., Sallet, H., Meibom, K.L., Jacquemin, N. and **R. Bernier-Latmani**. The effect of substrate availability on anaerobic arsenic methylation by *Paraclostridium bifermentans*, strain EML. **Submitted.** Preprint: https://biorxiv.org/cgi/content/short/2023.01.09.523296v1

18. Vico Oton, E., Volet, C., Jacquemin, N., Meibom, K.L., and **R. Bernier-Latmani**. Strain-dependent induction of primary bile acid 7-dehydroxylation by cholic acid. **Submitted**. Preprint: doi: 10.1101/2022.02.15.480494

19. Wortmann, E., Osswald, A., Wylensek, D., Liang, W., Triechel, N., Schmacher, F., Volet, C., Matysik, S., Kleigrewe, K., Gigl, M., Rohn, S., Kleuser, B., Liebisch, G., **Bernier-Latmani, R**., Schnieke, A., Flisikowski, K., Ocvirk, S., and T. Clavel.

Secondary bile acid production by gut bacteria promotes Western diet-associated colorectal cancer. **Submitted**. 10.1101/2023.03.17.533140

2023

20. Brown, A. R., Roebbert, Y., Sato, A., Hada, M., Abe, M., Weyer, S. and **R. Bernier-Latmani** (2023) Contribution of the nuclear field shift to kinetic uranium isotope fractionation. **Geochemical Perspectives Letters**. doi: 10.7185/geochemlet.2333.

21. Brown, A.R., Molinas, M., Roebbert, Y., Sato, A., Abe, M., Weyer, S. and R. Bernier-**Latmani** (2023). Electron flux is a key determinant of uranium isotope fractionation during bacterial reduction. **Communications Earth and Environment**, v4, 1, doi: 10.1038/s43247-023-00989-x

22. Molinas, M., Meibom, K.L., Faizova, R., Mazzanti, M., and **R. Bernier-Latmani** (2023). Mechanism of reduction of aqueous U(V)-dpaea and solid phase U(VI)-dpaea complexes: the role of multiheme cytochromes. **Environmental Science and Technology**, doi: 10.1021/acs.est.3c00666

23. Miele, F., Benettin, P., Wang, S., Retti, I., Asadollahi, M., Frutschi, M., Binayak, M., **Bernier-Latmani, R**., and A. Rinaldo (2023). Spatially explicit linkages between redox potential cycles and soil moisture fluctuations. **Water Resources Research**, v59, p1-23, doi: 10.1029/2022WR032328

2022

24. Burzan, N., Murad Lima, R., Frutschi M., Janowczyk, A., Reddy, B., Rance, A., Diomidis, N., and **R. Bernier-Latmani**. (2022) Growth and persistence of an aerobic microbial community in Wyoming bentonite MX-80 anoxic in-situ conditions. **Frontiers in Microbiology**, doi: 10.3389/fmicb.2022.858324

25. Viacava, K., Qiao, J., Janowczyk, A., Poudel, S., Jacquemin, N., Meibom Lederballe K., Shrestha, H.K., Reid, M.C., Hettich, R.L., and **R. Bernier-Latmani** (2022) Meta-omics-aided isolation of an elusive anaerobic arsenic-methylating soil bacterium. **The ISME Journal,** doi: 10.1038/s41396-022-01220-z

26. Bell, E., Lamminmäki, T., Alneberg, J., Qian, C., Xiong, W., Hettich, R., Frutschi, M., and **R. Bernier-Latmani.** (2022) Active anaerobic methane oxidation and sulfur disproportionation in the deep terrestrial subsurface. **The ISME Journal**, doi: 10.1101/2021.08.21.457207

27. Coral, T., Placko, A-L., Beaufort, D., Tertre, E., **Bernier-Latmani, R.**, Descostes, M., de Boissezon, H., Guillon, S., and P. Rossi. (2022) **Science of the total environment**, doi: 10.1016/j.scitotenv.2022.153597

28. Chromiková, Z., Kalianková Chovanová, R., Tamindžija, D., Bártová, B., Radnović, D., **Bernier-Latmani, R.** and I. Barák. Implantation of *Bacillus pseudomycoides* chromate transporter increases chromate tolerance in *Bacillus subtilis*. (2021) **Frontiers in Microbiology**, doi: 10.3389/fmicb.2022.842623

29. Pan, Z., Roebbert, Y., Beck, A., Bartova, B., Vitova, T., Weyer, S., and **R. Bernier-Latmani** (2022) Persistence of the isotopic signature of pentavalent uranium in magnetite. **Environmental Science and Technology,** doi: 10.1021/acs.est.1c06865

2021

30. Mehrshad, M., Lopez-Fernandez, M., Sundh, J., Bell, E., Simone, D., Buck, M., **Bernier-Latmani, R.**, Bertilsson, S., and M. Dopson. (2021). Energy efficiency and biological interactions define the core microbiome of deep oligotrophic groundwater. **Nature Communications**, doi: 10.1038/s41467-021-24549-z

31. Sato, A., **Bernier-Latmani, R.**, Masahiko, H. and M. Abe. (2021) Ab initio and steady-state models for uranium isotope fractionation in multi-step biotic and abiotic reduction. **Geochimica et Cosmochimica Acta**, doi: 10.1016/j.gca.2021.05.044

32. Roebbert, Y., Rosendahl, C.D., Brown, A., Schippers, A., **Bernier-Latmani, R.**, and S. Weyer. (2021) Uranium isotope fractionation during the anoxic mobilization of noncrystaline U(IV) by ligand complexation. **Environmental Science and Technology,** doi: 10.1021/acs.est.0c08623

33. 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

34. Reid, M.C., Asta, M.P., Falks, 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

2020

35. Viacava, K., Lederballe Meibom, K., Ortega, D., Dyer, S., Gelb, A., Falquet, L., Minton, N.P., Mestrot, A., and **R. Bernier-Latmani**. (2020) Variability in arsenic methylation efficiency across aerobic and anaerobic microorganisms. **Environmental Science and Technology,** v54, 14343-14351, doi: 10.1021/acs.est.0c03908

36. Nazarova, T., Alessi, D.S., Janssen, D.J., **Bernier-Latmani, R.**, and C. Wanner. (2020) In situ biostimulation of Cr(VI) reduction in a fast-flowing oxic aquifer. **ACS Earth&Space Chemistry**, doi: 10.1021/acsearthspaceschem.0c00200

37. 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 UO_2 formation through uranium reduction by magnetite. **Nature Communications**, v11, 4001 doi: 10.1038/s41467-020-17795-0

38. 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

39. 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

40. 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

41. Bell, E., Lamminmäki, T., Alneberg, J., Andersson, A.F., Qian, C., Xiong, W., Hettich, R.L., Frutschi, 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

2019

42. 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.

43. Asta, M.P., Wang, Y., Frutschi, 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.

44. 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.

45. 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.

46. Boylan, A.A., Perez-Mon. C., Guillard, L., Burzan, N., Loreggian, L., Maisch, M., Kappler, A., Byrne, J.M., and **R. Bernier-Latmani**. (2019) H_2-fuelled microbial metabolism in Opalinus Clay. **Applied Clay Science**, v174, 69-76. doi:10.1016/j.clay.2019.03.020

47. 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

48. 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

49. 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

2018

50. 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.

51. 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

52. 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

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54. 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

55. 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 chromiiresistens.* **Applied and Environmental Microbiology**, V84, 23, e2208-18. doi: 10.1128/AEM.02208-18

2017

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59. 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

2016

60. 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 7alpha-dehydroxylation by *Clostridium scindens* associated with protection from *C. difficile* infection in a gnotobiotic mouse model. **Frontiers in Microbiology,** v6, 191.

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63. 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.

64. 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.

65. 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.

66. 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.

67. 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.

68. 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

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2.2. Book chapters

B1. **Bernier-Latmani, R**. and B.M. Tebo, B.M. (**2011**) Direct and indirect processed leading to Uranium (IV) oxidation. In Microbial metal and metalloid metabolism: advances and applications. John F. Stolz and Ronald S. Oremland Eds. Chapter 8, pp 139-156. ASM Press, Washington. D.C.

2.3. Reviews

R1. Bargar, J. R., **Bernier-Latmani, R.**, Giammar, D.E. and B. M. Tebo (**2008**) Biogenic uraninite nanoparticles and their importance for uranium remediation. **Elements**, v4, 6, 407-412.

R2. Calas, G., McMillan, P. F., and **R. Bernier-Latmani.** (**2015**) Environmental Mineralogy: New challenges, new materials. **Elements**, v11, 4, 247-252.

3. Other professional activities

3.1. Meetings organized

1. **2024-2025**: Science Committee Member for Goldschmidt 2025, Prague, Czech Republic.

2. **2022-2023**: Theme co-chair for Theme 11 for Goldschmidt 2023, Lyon, France.

3. **June 20-26, 2020**: Theme chair for Theme 11 for Goldschmidt 2020, Virtual (originally to take place in Hawaii).

4. **October 21-26, 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).

5. **May 7-9, 2018**: MIND (Microbes in Nuclear Disposal) meeting in Lausanne, Switzerland.

6. **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).

7. **July 16-20, 2017**: National Scientific Organizing Committee for ICOBTE 2017 (14th International Conference on the Biogeochemistry of Trace Elements) in Zurich.

8. **August 25-30, 2013**: Co-theme chair (with Thomas Borch) for Theme 16 'Geochemical impacts of human activity' for Goldschmidt 2013.

9. **November 17, 2012**: Symposium at the 2012 Swiss Geosciences Meeting in Bern, Switzerland with Jasquelin Peña from University of Lausanne.

10. **June 24-29, 2012**: Symposium at the 2012 Goldschmidt meting in Montreal, Canada: 'Microbial transformations of radionuclides' with Jon Lloyd.

11. **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.

12. **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).

13. **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.

14. **May 20-21, 2010**: COST conference for working group 2 of Action D43 'Colloid and Interface Chemistry for Nanotechnology' in Lausanne.

15. **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.

16. **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.

3.2. Positions of trust

3.2.1. Journal article referee

Since 2006, I have refereed papers for the following journals:

- Proceedings of the National Academy of Science of the USA
- Science
- Environmental Science and Technology
- Geochimica et Cosmochimica Acta
- Geobiology
- Geomicrobiology Journal
- Canadian Journal of Microbiology
- Microbial Biotechnology
- Journal of Environmental Quality
- Chemical Geology
- Journal of Synchrotron Radiation
- Applied and Environmental Microbiology
- Aquatic Microbial Ecology
- Chemosphere
- Environmental Science and Pollution Research
- Biodegradation
- Microbiology
- ISME Journal
- Applied Microbiology
- Applied Geochemistry
- Ecotoxicology
- Gut Microbes
- ACS Sustainable Chemistry Review
- Journal Water Process Engineering
- Computational and Structural Biotechnology Journal
- Nature Communications
- ACS Earth and Space Chemistry
- Environmental Microbiology

3.2.2. Grant application referee

Since 2006, I have referred grant applications from:

- Swiss National Science Foundation
- US National Science Foundation
- Stanford Synchrotron Radiation Laboratory beamtime
- The AXA research Fund
- The French Nuclear Safety and Radioprotection Institute (IRSN)
- Deutsche Forschungsgemeinschaft (DFG)

3.2.3. Editor positions

I serve as an editor for the following journals:

- Frontiers in Microbiological Chemistry (associate editor) since 2010
- Journal of Hydrology (associate editor) from May 2013 to Dec 2015
- Geo-Bio Interfaces (associate editor) since 2023

3.2.4. Review Boards

Since 2012, I was invited to:

- Serve on a review board for U.S. DOE review of a National Laboratory's Subsurface Biogeochemical Research Scientific Focus Area (I was unable to participate due to prior commitments).
- Serve as a reviewer for the Helmholtz Young Investigator Award (in 2012).
- Review tenure packages for ETHZ (2017 and 2019)
- Review tenure case at Colorado State University (2022)
- Diamond Light Source Peer Review Panel (Sept 2014-May 2018).
- Swedish Vetenskapsrådet (i.e., the Swedish Research Council) panel NT-8 (Soil, Air and Water Processes) in 2015.
- SNSF Post-doctoral Mobility MINT panel 2023- present
- SNSF *Ad hoc* referee for Division MINT Environmental Geosciences and Soil Chemistry, Fall 2023- Spring 2024 (6 months)

3.2.5. Scientific workshops with stakeholder

- ThermoChimie "redox' workshop: October 16th, 2019 in Manchester, UK.
- NAGRA workshop April 2019 on "The limits of life in bentonite" at EPFL.
- NAGRA workshop June 2017 on "Near-field microbial activity and the implications for canister corrosion" in Villigen, Switzerland.
- NAGRA workshop November 2012 on "The long-term degradation of organic polymers in a cement-based repository for low and intermediate level waste" in Villigen, Switzerland.
- NAGRA workshop August 2012 on "The assessment of potential adverse effects of fungal growth in a repository" in Villigen, Switzerland.
- Presentation at the Federal Nuclear Safety Commission (NSC), June 2021 in Brugg, Switzerland.

3.2.6. External faculty search committees

- University of Vienna as an external referee (2012)
- University of Vienna, Faculty position in Environmental Contaminants (2022)
- ETHZ position in Environmental Microbiology (2022)