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Promotion File

Prof. Rizlan Bernier-Latmani

April 11th, 2026

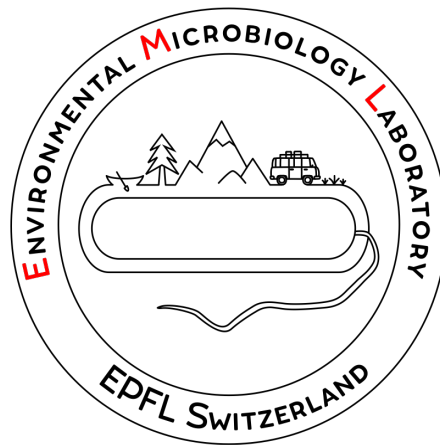


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1. Education and Employment

1.1. Biographical information

Name: Rizlan Bernier-Latmani

Address: Environmental Microbiology Laboratory
School of Architecture, Civil and Environmental Engineering
Batiment CH A1 375
Ecole Polytechnique Fédérale de Lausanne (EPFL)
CH-1015 Lausanne

Tel: +41 21 693 5001
Fax: +41 21 693 6205
Email: rizlan.bernier-latmani@epfl.ch
www: <http://eml.epfl.ch/>

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 (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

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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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 α -dehydroxylating bacteria accelerate injury-induced mucosal healing in the colon. **EMBO Molecular Medicine**, 17, 889-908. doi: [10.1038/s44321-025-00202-w](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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 7 α -dehydroxylation pathway in the gut microbe *Clostridium scindens* ATCC 35704. **Gut Microbes**, 16:1. doi: [10.1080/19490976.2024.2323233](https://doi.org/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](https://doi.org/10.1021/acsearthspacechem.3c00271)
17. Qiao, J., Sallet, H., Meibom, K.L., Jacquemin, N. and R. Bernier-Latmani. Growth substrate limitation enhances anaerobic arsenic methylation by *Paraclostridium bifermentans* strain EML. (2024) v90, 12, e00961-24. **Applied and Environmental Microbiology**. doi: [10.1128/aem.00961-24](https://doi.org/10.1128/aem.00961-24)
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. (2024). **BMC Microbiology**, 24, 286. doi: [10.1186/s12866-024-03433-y](https://doi.org/10.1186/s12866-024-03433-y)

2023

19. 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](https://doi.org/10.7185/geochemlet.2333).
20. 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](https://doi.org/10.1038/s43247-023-00989-x)
21. 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](https://doi.org/10.1021/acs.est.3c00666)
22. Miele, F., Benettin, P., Wang, S., Retti, I., Asadollahi, M., Fruttschi, 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](https://doi.org/10.1029/2022WR032328)

2022

23. Burzan, N., Murad Lima, R., Fruttschi 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](https://doi.org/10.3389/fmicb.2022.858324)
24. 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](https://doi.org/10.1038/s41396-022-01220-z)
25. Bell, E., Lamminmäki, T., Alneberg, J., Qian, C., Xiong, W., Hettich, R., Fruttschi, 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](https://doi.org/10.1101/2021.08.21.457207)
26. 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](https://doi.org/10.1016/j.scitotenv.2022.153597)
27. Chromiková, Z., Kalianková Chovanová, R., Tamindžija, D., Bártová, B., Radnović, D., **Bernier-Latmani, R.** and I. Barák. Implantation of *Bacillus pseudomycooides* chromate transporter increases chromate tolerance in *Bacillus subtilis*. (2021) **Frontiers in Microbiology**, doi: [10.3389/fmicb.2022.842623](https://doi.org/10.3389/fmicb.2022.842623)
28. 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](https://doi.org/10.1021/acs.est.1c06865)

2021

29. 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](https://doi.org/10.1038/s41467-021-24549-z)
30. 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](https://doi.org/10.1016/j.gca.2021.05.044)
31. Roebbert, Y., Rosendahl, C.D., Brown, A., Schippers, A., **Bernier-Latmani, R.**, and S. Weyer. (2021) Uranium isotope fractionation during the anoxic mobilization of noncrystalline U(IV) by ligand complexation. **Environmental Science and Technology**, doi: [10.1021/acs.est.0c08623](https://doi.org/10.1021/acs.est.0c08623)
32. 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)
33. 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](https://doi.org/10.1016/j.chemosphere.2020.129092)

2020

34. 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](https://doi.org/10.1021/acs.est.0c03908)
35. 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](https://doi.org/10.1021/acsearthspaceschem.0c00200)
36. 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)
37. 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)
38. 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)
39. 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)
40. 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](https://doi.org/10.1038/s41396-020-0602-x)

2019

41. 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).
42. 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](https://doi.org/10.1021/acs.est.9b02887).
43. 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).
44. 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).
45. 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)
46. 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)
47. 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)
48. 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

49. 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).

50. 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)
51. 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)
52. 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)
53. 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)
54. 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 chromiirensistens*. **Applied and Environmental Microbiology**, V84, 23, e2208-18. [doi: 10.1128/AEM.02208-18](https://doi.org/10.1128/AEM.02208-18)

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2.2. Book chapters

- B1. **Bernier-Latmani, R.** and B.M. Tebo, B.M. (2011) Direct and indirect processes 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 meeting 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)