

**Annexe 1:**

**Lago di Cadagno: liste des publications dans des revues scientifiques à comité de lecture, 1998 - 2012**

1. **Bachofen R. and Schenk A.** (1998). Quorum sensing autoinducers: do they play a role in natural microbial habitats? *Microbiol. Res.* 153: 61-3.
2. **Behrens A., Schaeffer P., Bernasconi S. and Albrecht P.** (2000) 7,11-cyclobotryococca-5,12,26-triene, a novel botryococcene-related hydrocarbon occurring in natural environments. *Org. Lett.* 2: 1271-4.
3. **Belin G. K.** (2008) Investigation of Hopanoid Biomarkers in Lake Sediments by GC-MS and RP-HPLC-APCI-MS. *E-Journal of Chemistry.* 6: 77-88.
4. **Bossard P., Gammeter S., Lehman C., Schanz F., Bachofen R., Gürgi H.-R., Steiner D. and Zimmermann U.** (2001). Limnological description of the lakes Zürich, Lucerne, and Cadagno. *Aquat. Sci.* 63: 225-49.
5. **Bosshard P. P., Santini Y., Grüter D., Stettler R. and Bachofen R.** (2000) Bacterial diversity and community composition in the chemocline of the meromictic alpine Lake Cadagno as revealed by 16S rDNA analysis. *FEMS Microbiol. Ecol.* 31:173-82.
6. **Bosshard P. P., Stettler R., Bachofen R.** (2000) Seasonal and spatial community dynamics in the meromictic Lake Cadagno. *Arch. Microbiol.* 174:168-74.
7. **Camacho A., Erez J., Chicote A., Florin M., Squires M. M., Lehmann C. and Bachofen R.** (2001). Microbial microstratification, inorganic carbon photoassimilation and dark carbon fixation at the chemocline of the meromictic Lake Cadagno (Switzerland) and its relevance to the food web. *Aquat. Sci.* 63: 91-106.
8. **Canfield D. E., Farquhar J., Aubrey L. and Zerkle A. L.** (2010) High isotope fractionations during sulfate reduction in a low-sulfate euxinic ocean analog. *Geology.* 38: 415-18.
9. **Dahl T. W., Anbar A. D., Gordon G. W., Ronsig M. T, Frei R. and Canfield D. E.** (2010). The behavior of molybdenum and its isotopes across the chemocline and in the sediments of sulfidic Lake Cadagno. *Geochimica et Cosmochimica Acta* 74 (1): 144-63.
10. **Decristophoris P. M. A., Peduzzi S., Ruggeri-Bernardi N., Hahn D. and Tonolla M.** (2009) Fine scale analysis of shifts in bacterial community structure in the chemocline of meromictic Lake Cadagno, Switzerland. *J. Limnol.* 68: 16-24.
11. **Del Don C., Hanselmann K. W., Peduzzi R. and Bachofen R.** (2001). The meromictic alpine Lake Cadagno: Orographical and biogeochemical description. *Aquat. Sci.* 63: 70-90.
12. **Egli K., Wiggli M., Fritz M., Klug J., Gerss J. and Bachofen R.** (2004). Spatial and temporal dynamics of a plume of phototrophic microorganisms in a meromictic alpine lake using turbidity as a measure of cell density. *Aquat. Microbiol. Ecol.* 35: 105-13.
13. **Fritz M. and Bachofen R.** (2000). Volatile organic sulfur compounds in a meromictic alpine lake. *Acta hydrochim. Hydrobiol.* 28: 185-192.
14. **Gattuso J. P., Peduzzi S., Pizay M. D. and Tonolla M.** (2002). Changes in freshwater bacterial community composition during measurements of microbial and community respiration. *J. Plank. Res.* 24: 1197-206.

15. **Gregersen L. H., Habicht K. S., Peduzzi S., Tonolla M., Canfield D. E., Miller M., Cox R. P. and Frigaard N. U.** (2009) Dominance of a clonal green sulfur bacterial population in a stratified lake. *FEMS Microbiol. Ecol.* 70: 30-41.
16. **Habicht K. S., Miller M., Cox R. P., Frigaard N. U., Tonolla M., Peduzzi S., Falkenby L.G. and Andersen J. S.** (2011) Comparative proteomics and activity of a green sulfur bacterium through the water column of Lake Cadagno, Switzerland. *Environ. Microbiol.* 13: 203-15.
17. **Halm H., Musat N., Lam P., Langlois R., Musat F., Peduzzi S., Lavik G., Schubert C. J., Sinha B., LaRoche J. and Kuypers M. M.** (2009) Co-occurrence of denitrification and nitrogen fixation in a meromictic lake, Lake Cadagno (Switzerland). *Environ. Microbiol.* 11: 1945-58.
18. **Hebting Y., Schaeffer P., Behrens A., Adam P., Schmitt G., Schneckenburger P., Bernasconi S. M. and Albrecht P.** (2006) Biomarker evidence for a major preservation pathway of sedimentary organic carbon. *Science.* 312: 1627-31.
19. **Honeycutt C., Canfield D. and Bjerrum C.** (2008) One dimensional physico-chemical ecological modelling of sulfidic oceans: applications to Proterozoic ocean chemistry and euxinic photoic zones. *Geophysical Research Abstracts.* Vol. 10, EGU: 2008- A-08712, 2008 EGU General Assembly 2008.
20. **Lehmann C. and Bachofen R.** (1999) Images of concentrations of dissolved sulphide in the sediment of a lake and implications for internal sulphur cycling. *Sedimentol.* 46: 537-45.
21. **Lüthy L., Fritz M. and Bachofen R.** (2000) In situ determination of sulfide turnover rates in a meromictic alpine lake. *Appl. Environ. Microbiol.* 66: 712-7.
22. **Musat N., Halm H., Winterholler B., Hoppe P., Peduzzi S., Hillion F., Horreard F., Amann R., Jørgensen B. B. and Kuypers M. M.** (2008) A single-cell view on the ecophysiology of anaerobic phototrophic bacteria. *Proc. Natl. Acad. Sci. U S A.* 105:17861-6.
23. **Niemann H., Wirth S. B., Stadnitskaia A., Gilli A., Anselmetti F. S. , Sinninghe Damsté J. S., Schouten S., Hoppmans E. C. and Lehmann M. F.** (2011) Validation and application of a novel, terrestrial biomarker-based paleo thermometer to Holocene sediments of Lake Cadagno, Switzerland *Geophysical Research Abstracts.* Vol. 13, EGU: 2011-1463, 2011 EGU General Assembly 2011.
24. **Niemann H., Wirth S. B., Stadnitskaia A., Gilli A., Anselmetti F. S. , Sinninghe Damsté J. S., Schouten S., Hoppmans E. C. and Lehmann M. F.** (2012) Bacterial GDGTs in Holocene sediments and catchment soils of a high-alpine lake: application of the MBT/CBT-paleothermometer *Clim. Past.* 8: 889–906.
25. **Otz M. H., Otz H. K. and Siegel D. I.** (2003). Surface water/groundwater interaction in the Piora Aquifer, Switzerland: evidence from dye tracing tests. *Hydrogeol. J.* 11: 228-39.
26. **Peduzzi, R., Bachofen R., and Tonolla, M.** (eds.) (1998). *Lake of Cadagno: a meromictic alpine lake.* Documenta dell' Istituto Italiano di Idrobiologia. 63. p. 152.
27. **Peduzzi S., Tonolla M. and Hahn D.** (2003) Isolation and characterization of aggregate-forming sulfate-reducing and purple sulfur bacteria from the chemocline of meromictic Lake Cadagno, Switzerland. *FEMS Microbiol. Ecol.* 45: 29-37.
28. **Peduzzi S., Storelli N., Welsh A., Peduzzi R., Hahn D., Perret X. and Tonolla M.** (2012) *Candidatus "Thiodictyon syntrophicum"*, sp. nov., a new purple sulfur bacterium isolated from the chemocline of Lake Cadagno forming aggregates and specific associations with *Desulfocapsa* sp. *Syst. Appl. Microbiol.* 35: 139-44.
29. **Peduzzi S., Tonolla M. and Hahn D.** (2003). Vertical distribution of sulfate-reducing bacteria in the chemocline of Lake Cadagno, Switzerland, over an annual cycle. *Aquat. Microb. Ecol.* 30: 295–302.

30. **Peduzzi S., Welsh A., Demarta A., Decristophoris P., Peduzzi R., Hahn D. and Tonolla M.** (2011) *Thiocystis chemoclinalis* sp. nov. and *Thiocystis cadagnonensis* sp. nov., motile purple sulfur bacteria isolated from the chemocline of a meromictic lake. *Int. J. Syst. Evol. Microbiol.* 61: 1682-7.
31. **Ravasi D. F., Peduzzi S., Guidi V., Peduzzi R., Wirth S. B., Gilli A. and Tonolla M.** (2012). Development of a real-time PCR method for the detection of fossil 16S rDNA fragments of phototrophic sulfur bacteria in the sediments of Lake Cadagno. *Geobiology.* 10: 196-204.
32. **Schanz F., Fischer-Romero C. and Bachofen R.** (1998). Photosynthetic production and photoadaptatin of phototrophic sulfur bacteria in Lake Cadagno (Sdwitzerland). *Limnol. Oceanogr.* 43: 1262-69.
33. **Schubert C. J, Vazquez F., Lösekann-Behrens T., Knittel K., Tonolla M. and Boetius A.** (2011) Evidence for anaerobic oxidation of methane in sediments of a freshwater system (Lago di Cadagno). *FEMS Microbiol. Ecol.* 76: 26-38
34. **Tonolla M., Bottinelli M., Demarta A., Peduzzi R. and Hahn D.** (2005) Molecular identification of an uncultured bacterium ("morphotype R") in meromictic Lake Cadagno, Switzerland. *FEMS Microbiol. Ecol.* 53: 235-44.
35. **Tonolla M., Demarta A., Peduzzi R. and Hahn D.** (1999) In situ analysis of phototrophic sulfur bacteria in the chemocline of meromictic Lake Cadagno (Switzerland). *Appl. Environ Microbiol.* 65: 1325-30.
36. **Tonolla M., Demarta A., Peduzzi S., Hahn D. and Peduzzi R.** (2000) In situ analysis of sulfate-reducing bacteria related to *Desulfocapsa thiozymogenes* in the chemocline of meromictic Lake Cadagno (Switzerland). *Appl. Environ. Microbiol.* 66:820-4.
37. **Tonolla M, Peduzzi R, Hahn D.** (2005) Long-term population dynamics of phototrophic sulfur bacteria in the chemocline of Lake Cadagno, Switzerland. *Appl. Environ. Microbiol.* 71: 3544-50.
38. **Tonolla M., Peduzzi S., Hahn D. and Peduzzi R.** (2003) Spatio-temporal distribution of phototrophic sulfur bacteria in the chemocline of meromictic Lake Cadagno (Switzerland). *FEMS Microbiol. Ecol.* 43: 89-98.
39. **Tonolla M., Peduzzi S., Demarta A., Peduzzi R. and Hahn D.** (2004) Phototrophic sulfur and sulfate-reducing bacteria in the chemocline of meromictic Lake Cadagno, Switzerland. *J. Limnol.* 63: 157-66.
40. **Storelli N, Peduzzi S, Saad MM, Frigaard NU, Perret X, Tonolla M.** (2013) CO<sub>2</sub> assimilation in the chemocline of Lake Cadagno is dominated by a few types of phototrophic purple sulfur bacteria. *FEMS Microbiol Ecol.* 2013 May; 84(2):421-32.
41. **Wirth S. B., Gilli A., Niemann H., Dahl T. W., Ravasi D., Sax N., Hamanna Y., Peduzzi R., Peduzzi S., Tonolla M., Lehmann M. F. and Anselmetti F. S.** (2013) Combining sedimentological, trace metal (Mn, Mo) and molecular evidence for reconstructing past water-column redox conditions: The example meromictic Lake Cadagno (Swiss Alps). *Geochimica et Cosmochimica Acta*, 120, 220-238.