

## Nakano Publications (until 21 October 2021)

### (a) Original papers

1. Cai, J., Y. Hodoki, S. Nakano (2021) Phylogenetic diversity of the picocyanobacterial community from a novel winter bloom in Lake Biwa. *Limnology* 22:161–167
2. Liu, Y., Y. Chen, H. Fang, H. Lu, X. Wu, G. Yu, S. Nakano, R. Li (2021) Relationship between morphospecies and microcystin-producing genotypes of *Microcystis* species in Chinese freshwaters. *J. Oceanogr. Limnol.* <https://doi.org/10.1007/s00343-020-0276-2>
3. Okazaki, Y., S. Fujinaga, M. M. Salcher, C. Callieri, A. Tanaka, A. Kohzu, H. Oyagi, H. Tamaki, S. Nakano (2021) Microdiversity and phylogeographic diversification of bacterioplankton in pelagic freshwater systems revealed through long-read amplicon sequencing. *Microbiome* 9:24 <https://doi.org/10.1186/s40168-020-00974-y>
4. Cai, J., Y. Hodoki, M. Ushio, S. Nakano (2021) Influence of potential grazers on picocyanobacterial abundance in Lake Biwa revealed with empirical dynamic modeling. *Inland Waters* 10: 386-396. <https://doi.org/10.1080/20442041.2020.1711682>
5. 早川和秀・佐藤祐一・岡本高弘・永田貴丸・後藤直成・富岡典子・中野伸一 (2020) 琵琶湖における水質管理のあり方に関する研究と課題、地球環境 25:
6. Mukherjee, I., M. M. Salcher, A. S. Andrei, V. S. Kavagutti, T. Shabarova, V. Grujčić, M. Haber, P. Layoun, Y. Hodoki, S. Nakano, K. Šimek, R. Ghai (2020) A freshwater radiation of diplomonads. *Environmental Microbiology* 22: 4658–4668
7. Kataoka, T., K. Ohbayashi, Y. Kobayashi, H. Takasu, S. Nakano, R. Kondo, Y. Hodoki (2020, in press) Distribution of the harmful bloom-forming cyanobacterium, *Microcystis aeruginosa*, in 88 freshwater environments in Japan. *Microbes & Environments*. 35, doi:10.1264/jsme2.ME19110
8. Hodoki Y, Goda Y, Akatsuka T, Koitabashi T, Nakano S (2020) Long-term variation in abundance of the non-native phytoplankton *Micrasterias hardyi* (Zygnematophyceae, Streptophyta) in Lake Biwa, Japan. *Limnology* 21: 67-72 doi.org/ 10.1007%2Fs10201-019-00595-x
9. Mukherjee, I., Y. Hodoki, Y. Okazaki, S. Fujinaga, K. Ohbayashi, S. Nakano (2019) Widespread Dominance of Kinetoplastids and Unexpected Presence of Diplomonads in Deep Freshwater Lakes. *Frontiers Microbiol.* <https://doi.org/10.3389/fmicb.2019.02375>
10. Okazaki Y, Nishimura Y, Yoshida T, Ogata H, Nakano S (2019) Genome-resolved viral and cellular metagenomes revealed potential key virus-host interactions in a deep freshwater lake. *Environ. Microbiol.* 21: 4740-4754 <https://doi.org/10.1111/1462-2920.14816>
11. Ohbayashi, K., N. Ishikawa, Y. Hodoki, Y. Okada, S. Nakano, M. Ito, M. Shimada (2019) Rapid development and characterization of EST-SSR markers for the honey locust seed beetle, *Megabruchidius dorsalis* (Coleoptera: Bruchidae), using de novo transcriptome analysis based on next-generation sequencing. *App. Entomol. Zool.* 54: 141-145 doi.org/ 10.1007%2Fs13355-019-00605-5
12. Hiraoka, S., Y. Okazaki, M. Anda, A. Toyoda, S. Nakano, W. Iwasaki (2019) Metaepigenomic analysis reveals the unexplored diversity of DNA methylation in an environmental prokaryotic community. *Nature Communications* 10: 159 <https://www.nature.com/articles/s41467-018-08103-y>
13. Doi, H., K.-H. Chang, S. Nakano (2019) Trophic niche breadth of pond zooplankton species using stable isotope analysis and the relationship with the abiotic and biotic factors. *R. Soc. open sci.* 5: 180917. <http://dx.doi.org/10.1098/rsos.180917>
14. Okazaki, Y., M. M. Salcher, C. Callieri, S. Nakano (2018) The broad habitat spectrum of the CL500-11 lineage (phylum Chloroflexi), a dominant bacterioplankton in oxygenated hypolimnia of deep freshwater lakes. *Frontiers in Microbiology* doi: 10.3389/fmicb.2018.02891
15. Mehrshad M., M. M. Salcher, Y. Okazaki, S. Nakano, K. Šimek, A. S. Andrei, R. Ghai (2018) Hidden in plain sight - highly abundant and diverse planktonic freshwater Chloroflexi. *Microbiome* 6: 176.
16. Mochizuki, A., T. Murata, K. Hosoda, T. Katano, Y. Tanaka, T. Mimura, O. Mitamura, S. Nakano, Y. Okazaki, Y. Sugiyama, Y. Satoh, Y. Watanabe, A. Dulmaa, C. Ayushsureni, D. Ganchimeg, V. Drucker, V. A. Fialkov, M. Sugiyama (2018) Distributions and geochemical behaviors of oxyanion-forming trace elements and uranium in the Hövsgöl-Baikal-Yenisei water system of Mongolia and Russia. *J. Geochem. Exploration* 188: 123-136.
17. Okano, J., A. Shibata, Y. Sakai, M. Yamaguchi, M. Ohishi, Y. Goda, S. Nakano, N. Okuda. (2018)

- The effect of human activities on benthic macroinvertebrate diversity in tributary lagoons surrounding Lake Biwa. *Limnology* 19: 199-207.
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  19. Okano, J., S. Nakano, I. Tayasu, N. Okuda (2017) Differential responses to predator's chemical cue for two ecologically similar species: implication for coexistence mechanism. *Zool. Sci.* 34: 461-467.
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  21. Takasu, H., Nakano, S. (2017) Growth and mortality rates of prokaryotes in the hypolimnion of a deep freshwater lake (Lake Biwa, Japan). *Inland Waters*. <https://doi.org/10.1080/20442041.2017.1298222>
  22. Okazaki, Y., Nakano, S. (2016) Vertical partitioning of freshwater bacterioplankton community in a deep mesotrophic lake with a fully oxygenated hypolimnion (Lake Biwa, Japan). *Environ. Microbiol. Rept.* 8: 780-788.
  23. Mukherjee, I., Hodoki, Y., Nakano, S. (2015) Kinetoplastid flagellates overlooked by universal primers dominate in the oxygenated hypolimnion of Lake Biwa, Japan. *FEMS Microb. Ecol.* 91 fiv083
  24. Tanabe Y, Okazaki Y, Yoshida M, Matsuura H, Kai A, Shiratori T, Ishida K, Nakano S, Watanabe MM. (2015) A novel alphaproteobacterial ectosymbiont promotes the growth of the hydrocarbon-rich green alga *Botryococcus braunii*. *Scientific Reports* 5 doi:10.1038/srep10467
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  28. Chang, K.-H., H. Doi, Y. Nishibe, G.-S. Nam, S. Nakano (2014) Feeding behavior of the copepod *Temora turbinata*: clearance rate and prey preference on the diatom and microbial food web components in coastal area. *J. Ecol. Environ.* 37: 225-229.
  29. Ushio, M., K. Makoto, J. Klaminder, H. Takasu, S. Nakano (2014) High-throughput sequencing shows inconsistent results with a microscope-based analysis of the soil prokaryotic community. *Soil Biology & Biochemistry* 76: 53-56.
  30. Takasu, H., T. Kunihiro, S. Nakano (2014) Protistan grazing and viral lysis losses of bacterial carbon production in a large mesotrophic lake (Lake Biwa). *Limnology* 15: 257-270.
  31. Sugiyama, Y., PG. Hatcher, RL. Sleighter, T. Suzuki, C. Wada, T. Kumagai, O. Mitamura, T. Katano, S. Nakano, Y. Tanaka, VV. Drucker, VA. Fialkov, M. Sugiyama (2014) Developing an understanding of dissolved organic matter dynamics in the giant Lake Baikal by ultrahigh resolution mass spectrometry. *Limnology* 15: 127-139.
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  35. Ushio, M., Makoto, K., Klaminder, J., Nakano, S. (2013) CARD-FISH analysis of prokaryotic community composition and abundance along small-scale vegetation gradients in a dry arctic tundra ecosystem. *Soil Biology & Biochemistry* 64: 147-154
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