

## Nakano Publications (until 16 October 2019)

### (a) Original papers

1. Mukherjee, I., Y. Hodoki, Y. Okazaki, S. Fujinaga, K. Ohbayashi, S. Nakano (2019) Widespread Dominance of Kinetoplastids and Unexpected Presence of Diplonemids in Deep Freshwater Lakes. *Frontiers Microbiol.* <https://doi.org/10.3389/fmicb.2019.02375>
2. Okazaki, Y., Y. Nishimura, T. Yoshida, H. Ogata, S. Nakano (in press) Genome-resolved viral and cellular metagenomes revealed potential key virus-host interactions in a deep freshwater lake. *Environ. Microbiol.*
3. Hodoki, Y., Y. Goda, T. Akatsuka, T. Koitabashi, S. Nakano (in press) Long-term variation in abundance of the non-native phytoplankton *Micrasterias hardyi* (Zygnematophyceae, Streptophyta) in Lake Biwa, Japan. *Limnology*
4. 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, *Megabrchidius dorsalis* (Coleoptera: Bruchidae), using de novo transcriptome analysis based on next-generation sequencing. *App. Entomol. Zool.* (online first)
5. 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* <https://www.nature.com/articles/s41467-018-08103-y>
6. 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>
7. 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
8. 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.
9. Mochizuki, A., S. Nakano (8th out of 18 authors) (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.
10. 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.
11. Mukherjee, I., Y. Hodoki, S. Nakano (2017) Seasonal dynamics of heterotrophic and plastidic protists in the water column of Lake Biwa, Japan. *Aquat. Microb. Ecol.* 80: 123-137.
12. 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.
13. Okazaki, Y., S. Fujinaga, A. Tanaka, A. Kohzu, H. Oyagi, S. Nakano (2017) Ubiquity and quantitative significance of bacterioplankton lineages inhabiting the oxygenated hypolimnion of deep freshwater lakes. *ISME J.* 11, 2279–2293.
14. 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>
15. 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.
16. 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
17. 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
18. Nishino, H., Y. Hodoki, S. D. Thottathil, K. Ohbayashi, Y. Takao and S. Nakano (2015) Identification of species and genotypic compositions of *Cryptomonas* (Cryptophyceae) populations

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19. Takasu, H., M. Ushio, J. E. LeClair, S. Nakano (2015) High contribution of *Synechococcus* to phytoplankton biomass in the aphotic hypolimnion in a deep freshwater lake (Lake Biwa, Japan). *Aquat. Microb. Ecol.* 75: 69-79. doi:10.3354/ame01749
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  21. 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.
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  23. 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.
  24. Sugiyama, Y., P.G. Hatcher, R.L. Sleigher, T. Suzuki, C. Wada, T. Kumagai, O. Mitamura, T. Katano, S. Nakano, Y. Tanaka, V.V. Drucker, V.A. 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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  26. Hodoki, Y., Ohbayashi, K., Kobayashi, Y., Takasu, H., Okuda, N., and Nakano, S. (2013) Anatoxin-a-producing *Raphidiopsis mediterranea* Skuja var. *grandis* Hill is one ecotype of non-heterocytous *Cuspidothrix issatschenkoi* (Usacev) Rajaniemi et al. in Japanese lakes. *Harmful Algae* 21-22: 44-53.
  27. Doi, H., K.-H. Chang, Y. Nishibe, H. Imai and S. Nakano (2013) Lack of congruence between species diversity indices and community structures of planktonic groups based on local environmental factors. *PLOS ONE*, DOI: 10.1371/journal.pone.0069594
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  30. Takasu, H., T. Kunihiro and S. Nakano (2013) Estimation of carbon biomass and community structure of planktonic bacteria in Lake Biwa using respiratory quinone analysis. *Limnology* 14: 247-256
  31. Ohbayashi K, Hodoki Y, Kobayashi Y, Okuda N, Nakano S. (2013) Genotypic composition and the relationship between genotypic composition and geographical proximity of the cyanobacterium *Microcystis aeruginosa* in western Japan. *Canadian Journal of Microbiology* 59: 266-272
  32. Kataoka, T., T. Homma, S. Nakano, Y. Hodoki, K. Ohbayashi, R. Kondo (2013) PCR primers for selective detection of intra-species variations in the bloomforming cyanobacterium, *Microcystis*. *Harmful Algae* 23: 46-54
  33. Okazaki, M., Hodoki, Y. and Nakano, S. (2013) Seasonal dominance of CL500-11 bacterioplankton (Phylum *Chloroflexi*) in the oxygenated hypolimnion of Lake Biwa, Japan. *FEMS Microbiol Ecol* 83: 82-92
  34. Kobayashi, Y., Hodoki, Y., Ohbayashi, K., Okuda, N., Nakano, S. (2013) Grazing impact on the cyanobacterium *Microcystis aeruginosa* by the heterotrophic flagellate *Collodictyon triciliatum* in an experimental pond. *Limnology* 14: 43-49
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