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SUPPLEMENTARY MATERIAL

**Cyanobacteria and microcystin contamination in untreated and treated
drinking water in Ghana**

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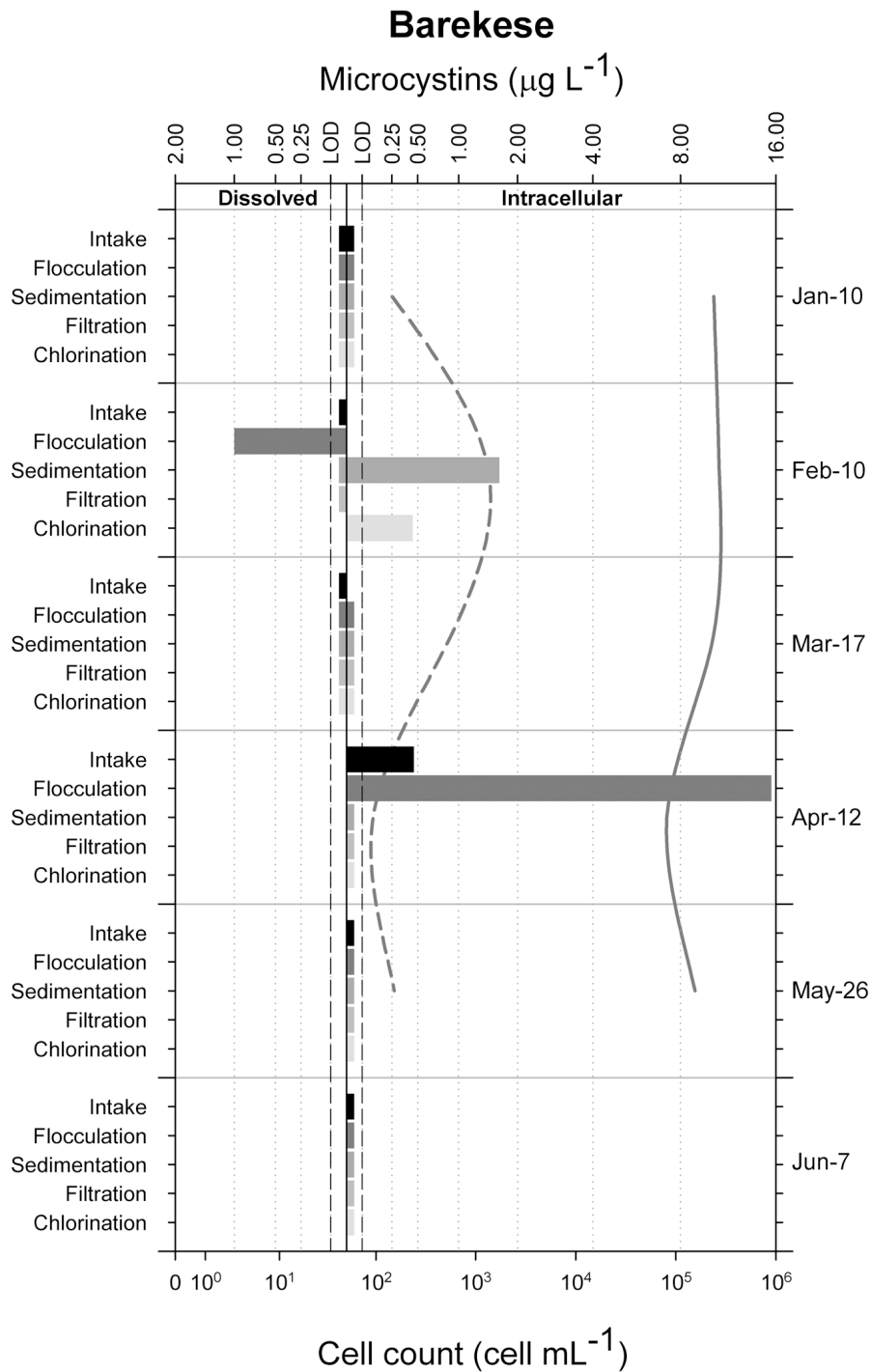
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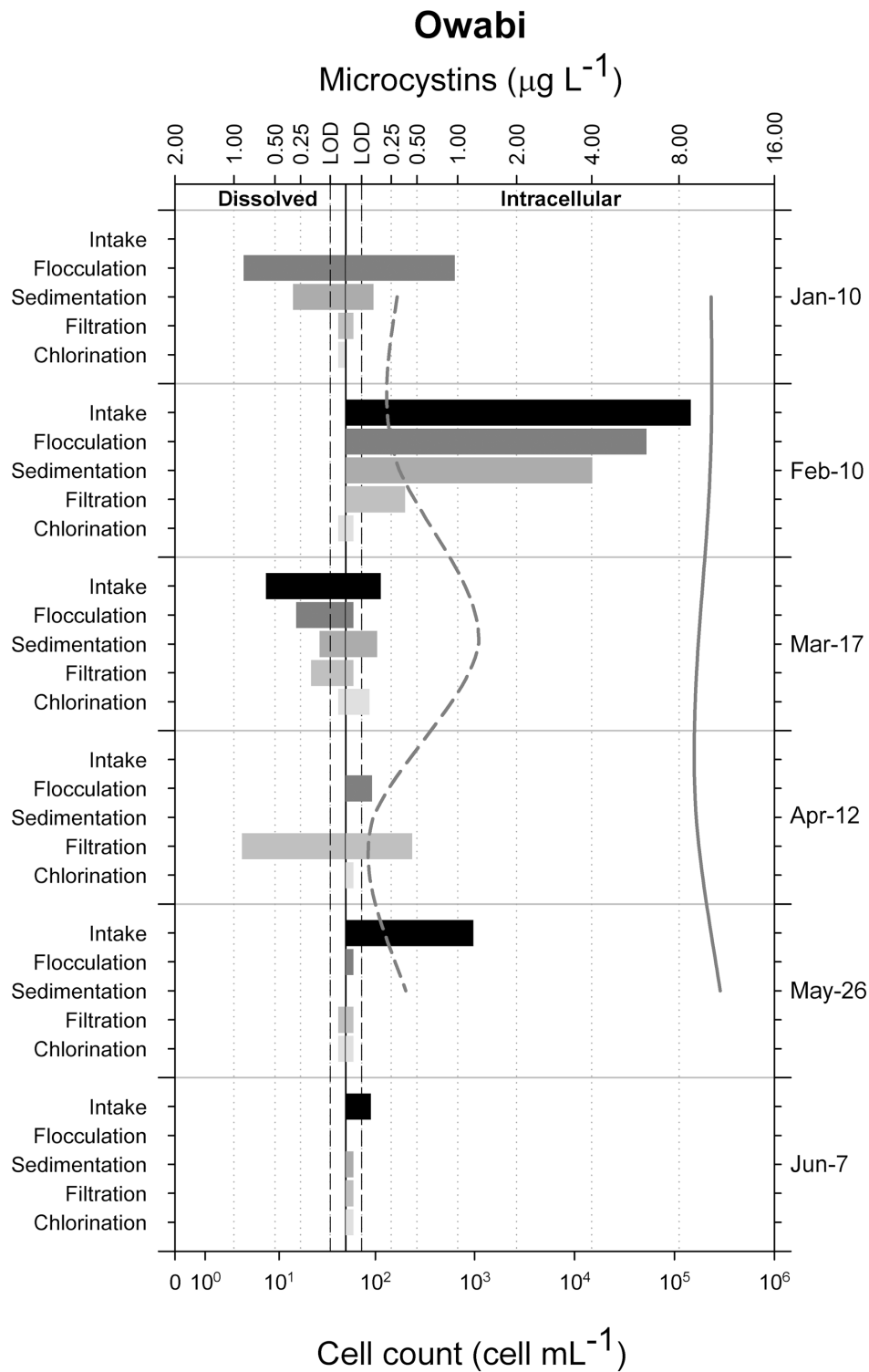
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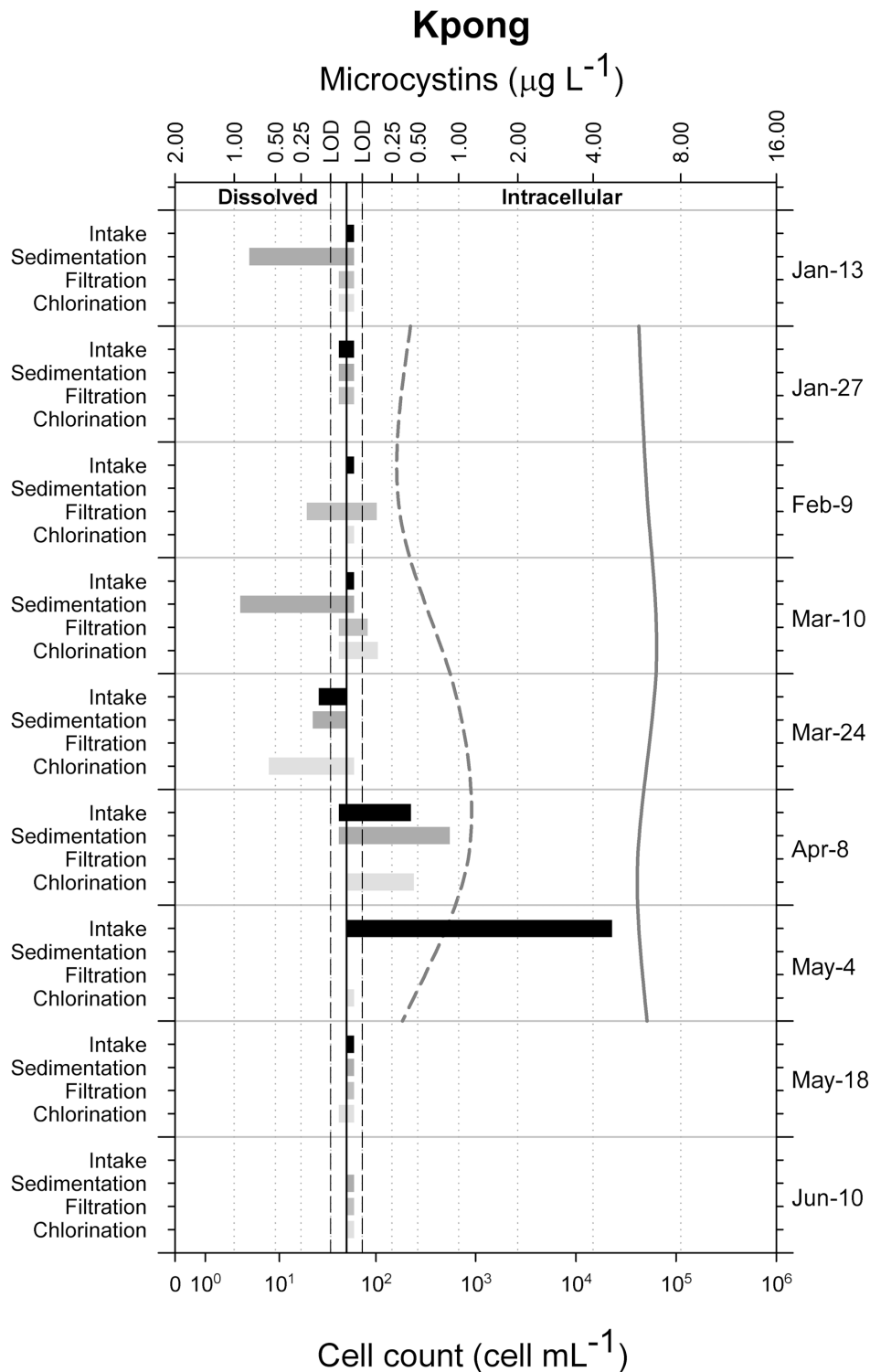
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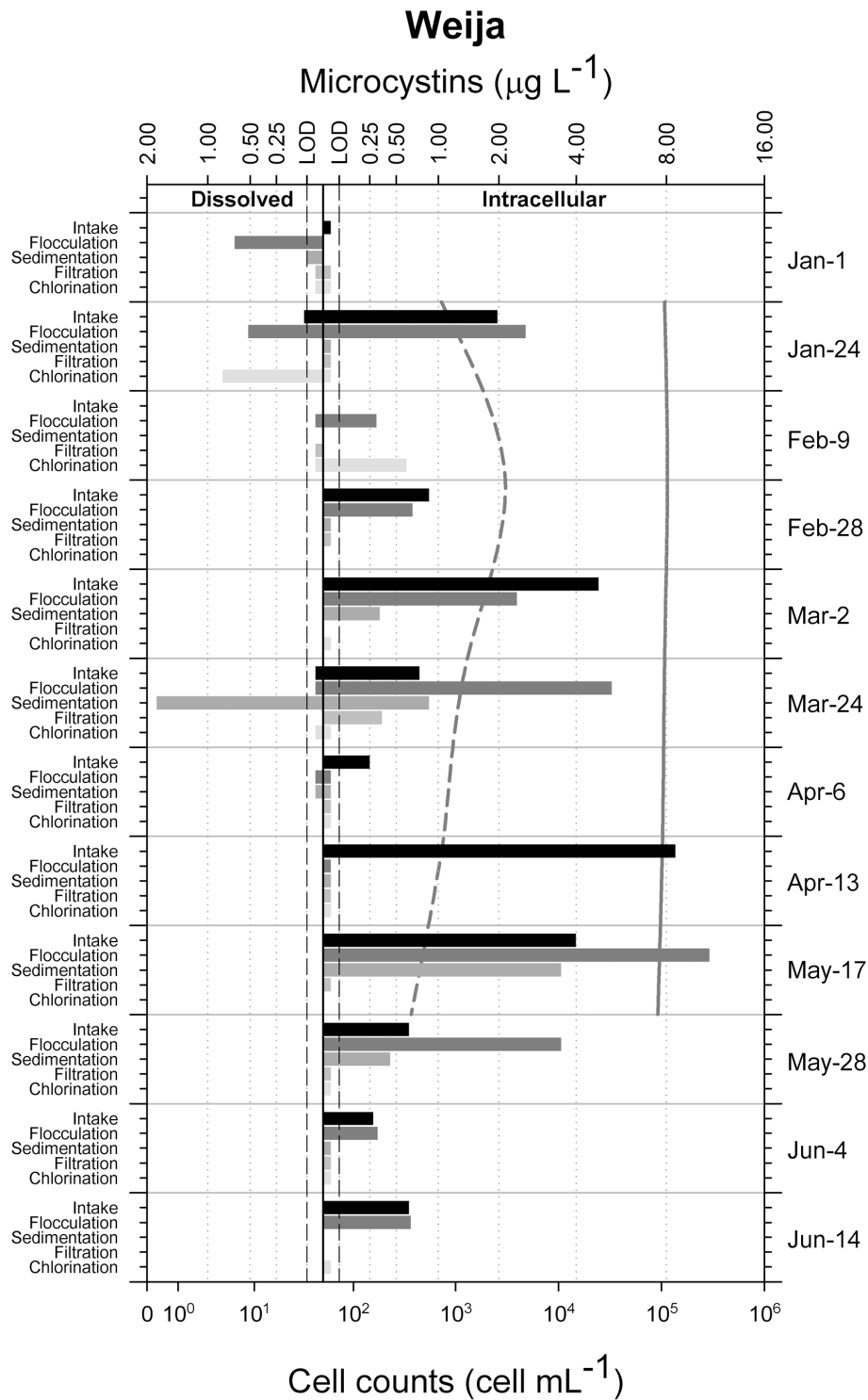
Supplementary Fig. 1. Cyanobacteria and MC concentrations at different stages of water treatment in the Barekese treatment plant in Ghana during Jan-Jun 2005. Bars on the right represent concentrations of intracellular MCs, whereas bars on the left show concentrations of dissolved MCs. Method LOD for MCs detection was $0.01 \mu\text{g L}^{-1}$. Line plots represent cyanobacteria concentrations in the intake (solid line) and in the final treated water (dashed line).



Supplementary Fig. 2. Cyanobacteria and MC concentrations at different stages of water treatment in the Owabi treatment plant in Ghana during Jan-Jun 2005. Bars on the right represent concentrations of intracellular MCs, whereas bars on the left show concentrations of dissolved MCs. Method LOD for MCs detection was $0.01 \mu\text{g L}^{-1}$. Line plots represent cyanobacteria concentrations in the intake (solid line) and in the final treated water (dashed line).



Supplementary Fig. 3. Cyanobacteria and MC concentrations at different stages of water treatment in the Kpong treatment plant in Ghana during Jan-Jun 2005. Bars on the right represent concentrations of intracellular MCs, whereas bars on the left show concentrations of dissolved MCs. Method LOD for MCs detection was $0.01 \mu\text{g L}^{-1}$. Line plots represent cyanobacteria concentrations in the intake (solid line) and in the final treated water (dashed line).



Supplementary Fig. 4. Cyanobacteria and MC concentrations at different stages of water treatment in the Weija treatment plant in Ghana during Jan-Jun 2005. Bars on the right represent concentrations of intracellular MCs, whereas bars on the left show concentrations of dissolved MCs. Method LOD for MCs detection was $0.01 \mu\text{g L}^{-1}$. Line plots represent cyanobacteria concentrations in the intake (solid line) and in the final treated water (dashed line).

Supplementary Tab. 1. List of cyanobacteria species identified in four Ghanaian drinking water treatment plants during the period Jan-May 2005.

Anabaena austro-africana CRONBERG & KOMÁREK 2004
Anabaena nygaardii CRONBERG & KOMÁREK 2004
Anabaenopsis ambigua PANDEY & MITRA 1962
Anabaenopsis tanganyikae (G.S. WEST) WOLOSZYNSKA & V.V. MILLER IN MILLER 1923
Aphanocapsa holsatica (LEMMERMANN) G. CRONBERG & KOMÁREK 1994
Aphanocapsa nubilum KOMÁREK & H.J. KLING 1991
Coelomoron tropicalis P.A.C. SENNA, A.C. PERES & KOMÁREK 1998
Cyanogranis ferruginea (F. WAWRIK) HINDÁK EX HINDÁK 2006
Cylindrospermopsis cuspis KOMÁREK & KLING 1991
Cylindrospermopsis raciborskii (WOLOSZYNSKA) SEENAYYA & SUBBA RAJU 1972
Geitlerinema unigranulatum (C. AGARDH EX GOMONT) ANAGNOSTIDIS 1989
Chroococcus cronbergae J. KOMÁREK & E. NOVELO 1994
Leptolyngbya sp.
Lyngbya sp.
Merismopedia punctata MEYEN 1839
Merismopedia tenuissima LEMMERMANN 1898
Microcystis aeruginosa (KÜTZING) KÜTZING 1846
Microcystis viridis (A. BRAUN) LEMMERMANN 1903
Microcystis wesenbergii (KOMÁREK) KOMÁREK EX KOMÁREK 2006
Oscillatoria princeps VAUCHER EX GOMONT 1892
Planktolyngbya circumcreta (G.S. WEST) K. ANAGNOSTIDIS & J. KOMÁREK 1988
Planktolyngbya limnetica (LEMMERMANN) J. KOMÁRKOVÁ-LEGNEROVÁ & G. CRONBERG 1992
Planktolyngbya minor (GEITLER & RUTTNER) KOMÁREK & CRONBERG 2001
Planktothrix agardhii (GOMONT) K. ANAGNOSTIDIS & J. KOMÁREK 1988
Planktothrix lacustris var. *solitaria* (KLEBAHN) I. UMEZAKI & M. WATANABE 1994
Planktothrix sp.
Pseudanabaena recta KOMÁREK & CRONBERG 2000
Radiocystis fernandoi KOMÁREK & KOMÁRKOVÁ-LEGNEROVÁ 1993
Romeria elegans (WOLOSZYNSKA) GEITLER 1932
