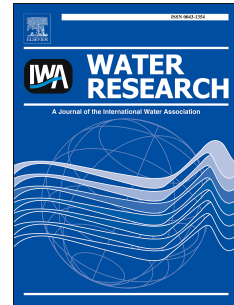


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Responses of riverbed sediment bacteria to heavy metals: Integrated evaluation based on bacterial density, activity and community structure under well-controlled sequencing batch incubation conditions

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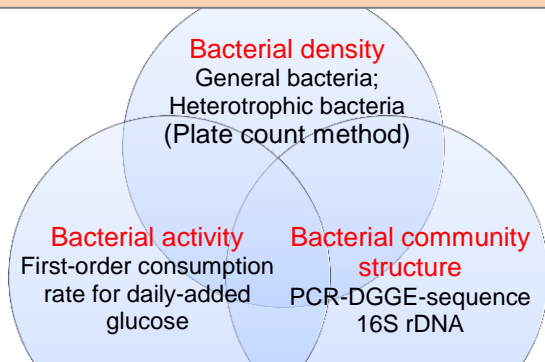
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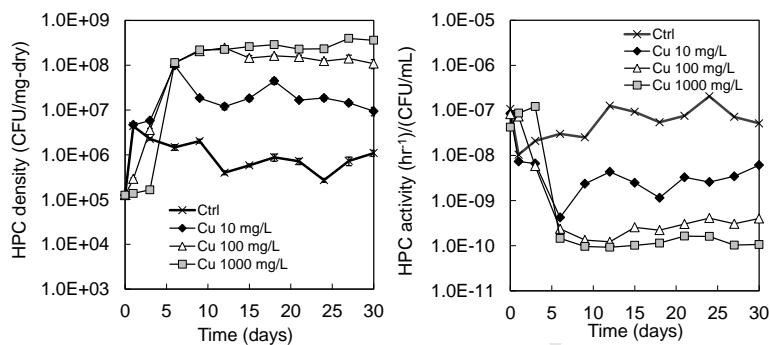
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Integrated evaluation of responses of riverbed sediment bacteria to heavy metals

- Sequencing batch incubation experiments
- Sediment samples from three rivers
- Pb, Cr, Cd & Cu spiked with varied concentrations.
- Glucose added every day as the major carbon source



- ✚ The extent of responses differed as Cu > Cd > Pb & Cr.
- ✚ Higher bacterial density was revealed in incubation with Cu than control.
- ✚ Long-term reduction in overall bacterial activity for glucose uptake was revealed.
- ✚ There were bacterial species whose growth was promoted.

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