

The effect of Glyphosate on benthic algae, macroinvertebrates and how this influences the trophic cascade



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Background

A large number of currently legal herbicides and their metabolites can be detected in rivers and streams (BMLFUW, 2010; Ulrich et al, 2015). However, studies on the potential effects of these contaminants on freshwater integrity and their food webs, as well as quality standards for a large number of herbicides and their metabolites are largely missing. Especially the impact of herbicide-derived metabolites is often neglected. Therefore, research is needed to assess and evaluate the impacts on non-target organism groups (e.g. periphyton, macroinvertebrates [MIV]), as well as the consequences for food web interactions and the ecological functioning of riverine ecosystems.

Main aim

To assess the effect of Glyphosate and its metabolite AMPA on benthic algae, as well as the effect on selected macroinvertebrate organisms

We offer

- Highly relevant topic
- Multidisciplinarity
- Acquisition of cutting-edge methods

Requirements:

- Interest for benthic ecology and limnochemistry
- Interdisciplinary working skills
- Communication skills

Start: Spring 2018

Location: Vienna and Lunz

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