



Mountain ecosystems

Mountain ecosystems and the services they provide to society face **multiple threats** arising from global change and its interactions with socio-cultural, economic and political developments. In particular, high-altitude mountain **freshwater ecosystems** have been, and will continue to be, severely impacted by global change, threatening the livelihood of more than **50% of the human** population. Climate and global change will

favor chemical **pollution** in mountain freshwater ecosystems through meteorological processes working over long-distances and carrying pollutants from lowlands to high altitudes. **Climate change** may further destabilize ecosystems through extreme events, allowing human and **wildlife pathogens** to proliferate, increasing risks for **human diseases**. A serious **reduction in the availability of clean water** will be the result.

You have questions?
Feel free to contact the chair holder

Prof. Dirk Schmeller
Ecolab, Toulouse INP-ENSAT, UPS
+33 6 98 67 80 77
dirk.schmeller@ensat.fr



Follow the research activities at our blog
www.p3mountains.org/blog

Funded by



AXA
Research Fund
Through Research, Protection



DESIGN BY dvn.fr



EcoLab



UNIVERSITÉ
TOULOUSE III
PAUL SABATIER



CNRS



AXA
Research Fund
Through Research, Protection

AXA CHAIR

Functional Mountain Ecology

Mountains are providing the livelihood for many people. They provide important resources, such as water, wood and grasslands for livestock. Mountains also provide a recreational landscape which is

used by many tourists around the world. However, globally the negative impacts of global change on mountain freshwater ecosystems and their biota are expected to greatly outweigh potential benefits.



GloMEc
GLOBAL CHANGE IN MOUNTAIN ECOSYSTEMS



The GloMEC team will produce **indicators of change** to inform the policy arena and decision making on the impact on human well-being, to **advance international research** in functional ecology and our understanding of future risks and to **increase the national and international visibility** of research at Toulouse INP, EcoLab and the Toulouse region.

A comprehensive research approach to establish mountain freshwater ecosystems as sentinels of change.

