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1st Edition  
Stanford, L. Loeb, Anne Spacie

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## Aquatic biomonitoring: Lessons from the past, challenges for the future

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Aquatic bio-monitoring: Lessons from the past, challenges for the future

**Rossano Bolpagni**  
University of Parma, Department of Chemistry, Life Sciences and Environmental Sustainability, Italy

**Mariano Bresciani**  
National Research Council of Italy, Institute for Electromagnetic Sensing of the Environment, Italy

**Stefano Fenoglio**  
University of Piemonte Orientale, Department of Science and Technological Innovation, Italy

(\*) Corresponding Author:  
**Rossano Bolpagni** | [rossano.bolpagni@unipr.it](mailto:rossano.bolpagni@unipr.it)

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## **WATER RESOURCES**

Although 4/3 of the Earth's surface is covered with water, the inland water sources account for only 2.5-3% of these water resources. Freshwater resources such as rivers and lakes constitute 1% of the Inland Water.

About 70% of the world's freshwater resources are stored in glaciers and snow masses. Up to 27-28% are found in groundwater.

Although freshwater sources covers only 1% of the Earth's surface, it is home to about 10% of the living species on earth.


Freshwater is an extremely important ecosystem that is used as a source of drinking water for all living things and for some as a habitat, shelter, feeding and breeding ground. However, studies have shown that freshwater ecosystems have suffered a loss of about 37-40% since the 1970s



Studies clearly show that by 2050, 40% of the world's population will have to cope with water shortages, which will lead to a global crisis.

According to current data, about 2 billion people on earth do not have access to healthy drinking water which has not been contaminated. About 1.2 billion people live in water-deprived areas, and it is estimated that this number will be doubled in 2025.

The amount of water that exists on earth is constant, it cannot be increased. Many pressures on spending water resources as if they were an endless resource lead to some difficulties to access to water and obtain a good water quality.

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Therefore, the protection of existing water resources, the treatment of contaminated water bodies, the rehabilitation of water bodies such as lakes and rivers whose quality has been degraded due to anthropogenic activities, the treatment of waste water and monitoring activities to be carried out in this context have a very important role.