

## **Microplastic in Swiss Alpine Lentic** Waters: the Case of Cadagno Lake.

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- Investigation of Background contamination.
- Microplastic contamination quantification.

Lake Cadagno (Aiorolo, TI). 46°33′ N, 8°43′ E Meromictic lake located in the Piora valley. Height: 1921 m a.s.l. Size: length ca. 720 m. width 350 m. Max. depth 20 m. Dep. rate 6 mm/y. Seasonal average riverine output: 2.0 ± 0.3 × 109 L/y.

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**Proof of concept:** presence of microplastic (> 500 µm) in the lake sediment. Cadagno lake shows plastic contamination. Outlook: draft the spatial-temporal deposition of MP in alpine lakes and have new insights about the potential effects the sediment nutritional value in sediments of oligotrophic waterbodies.





Particles > 50  $\mu$ m  $\mu$ FTIR