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## Towards Green Remediation: Metal Phytoextraction and Growth Analysis of *Sorghum bicolor* under Different Agronomic Management

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### ABSTRACT

The role agronomy plays in the management of phytotechnologies is a significant example of the answers that the agrosocieties can offer to the issues of society in the field of Green Remediation. This paper reports a study designed to test how the principles of classical plant growth analysis can be used in the field of phytoremediation. In the framework of a phytoremediation field trial set up in Torviscosa (Udine, Italy), *Sorghum bicolor* was grown receiving mineral fertilization, organic amendment, or neither as control. Crop growth was examined following classical functional growth analysis. Leaf area index (LAI), relative growth-rate (RGR) and shoot to weight ratio (SWR) showed how plants behaved in response to the treatments. *Sorghum bicolor* showed a poor potential for phytoremediation under our experimental conditions. However, some parameters of classical crop growth analysis resulted potentially useful also in the field of phytoremediation.

### KEYWORDS

Green Remediation, Heavy Metals, Phytoextraction, Field Experiment

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