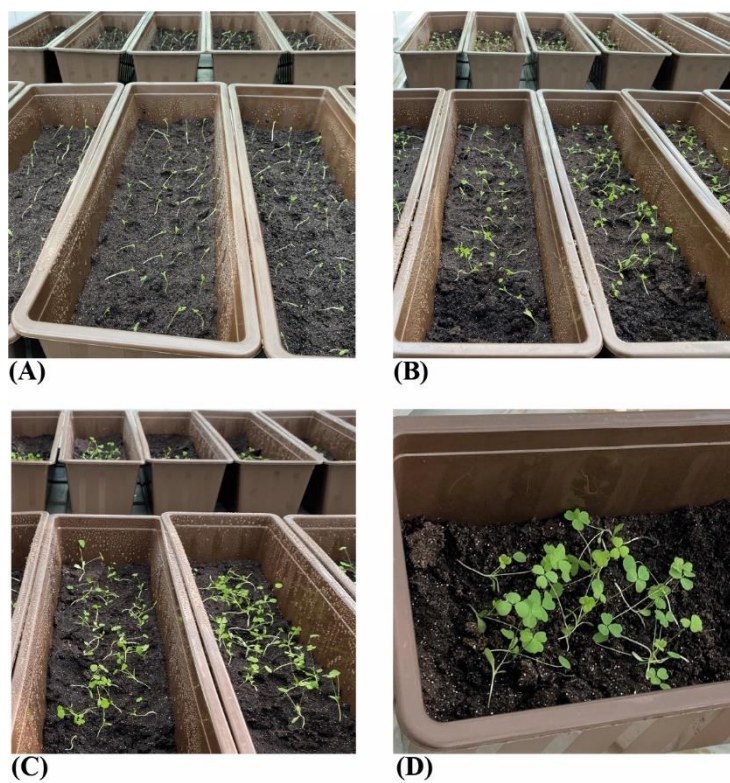
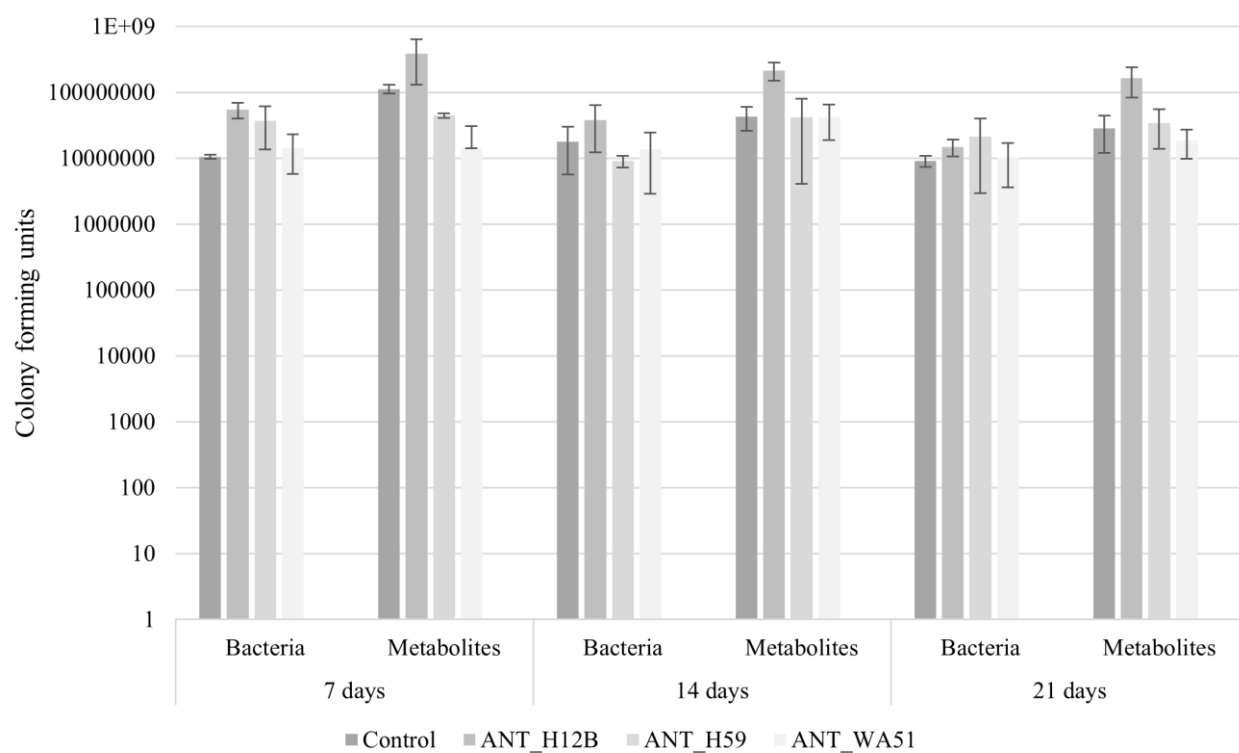


## *Supplementary Material*

### 1 Supplementary Figures



**Supplementary Figure 1.** Growth of alfalfa after: A) pre-cultivation and transplantation; B) 7 days; C) 14 days; D) 21 days of the experiment.



**Supplementary Figure 2.** Changes of the content of heterotrophic bacteria after consecutive weeks of experiment. Error bars represent standard deviations.

## 2 Supplementary Table

**Supplementary Table 1.** Changes of soil pH and redox potential after three consecutive weeks of experiment. Bacteria mean bioaugmentation with appropriate bacterial strains; metabolites mean application of their metabolites.

		pH			
		Control	ANT_H12B	ANT_H59	ANT_WA51
7 days	Bacteria	6.72	6.553333	6.676667	6.736667
	Metabolites	6.553333	6.406667	6.56	6.436667
14 days	Bacteria	6.746667	6.553333	6.623333	6.746667
	Metabolites	6.55	6.493333	6.6	6.366667
21 days	Bacteria	6.76	6.533333	6.556667	6.77
	Metabolites	6.606667	6.406667	6.543333	6.33
		Redox potential			
		Control	ANT_H12B	ANT_H59	ANT_WA51
7 days	Bacteria	19	29.33333	21.66667	18.33333
	Metabolites	27.66667	38	28.33333	36
14 days	Bacteria	18	28.66667	24.66667	18
	Metabolites	29	32.66667	26.33333	39.66667
21 days	Bacteria	11.33333	24.33333	23.66667	10.66667
	Metabolites	20	31.33333	23.66667	35.66667

### 3 Supplementary Data

**Supplementary Data 1.** Sequences of the reference bacterial enzymes/proteins involved in plant growth promotion used for the comparative proteomic analysis.

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