

Supporting Information

Effects of Varying Nano-ZnO Concentrations on the Physiology, Biochemistry, Root Exudate, and Root Microbial Community of *Agrostis Stolonifera*

Yian Wang ^{1, *}, Ronghui Wang ¹, Jiale He ¹, Tao Li ¹, Xinyue Fu ¹, Jiaxin Li ¹, and
Genhe He ^{1, *}

1. School of Life Science, Jinggangshan University, Ji'an 343009, Jiangxi, China.

E-mail: Yian Wang (nickowya@163.com); Ronghui Wang (18300472912@163.com);

Jiale He (m18679465460@163.com); Tao Li (2010591132@qq.com); Xinyue Fu

(18607060048@163.com); Jiaxin Li (2672262237@qq.com); Genhe He

(hegenhe@jgsu.edu.cn)

*Co-corresponding authors: Yian Wang (nickowya@163.com) and Genhe He

(hegenhe@jgsu.edu.cn)

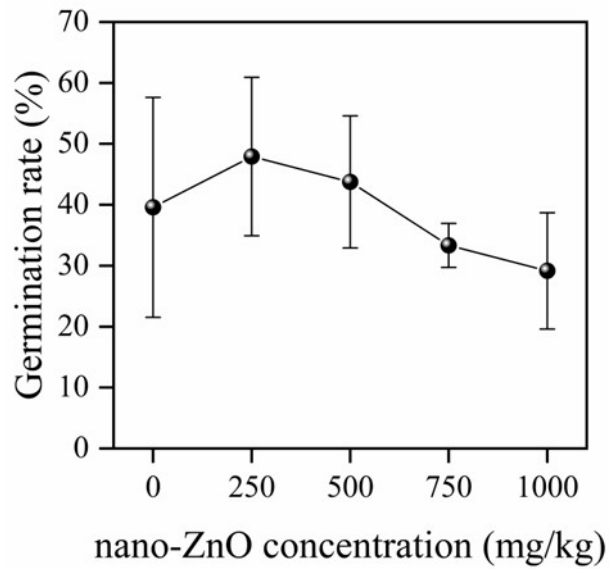


Fig. S1. Germination rate of *Agrostis Stolonifera* at varying nano-ZnO concentrations.

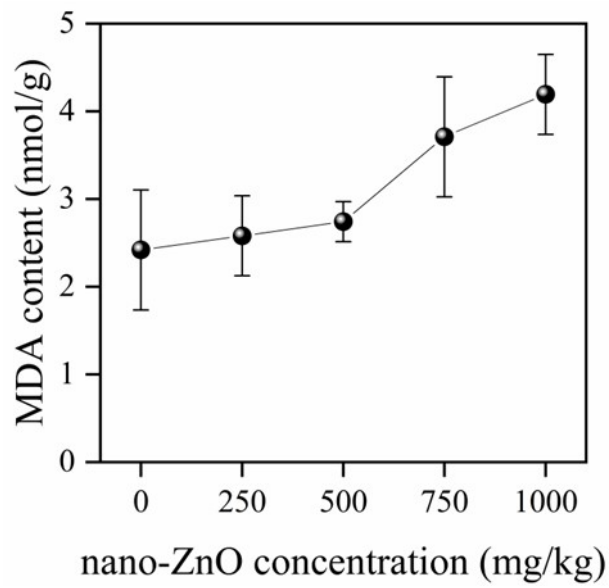


Fig. S2. MDA content in leaf tissues of *Agrostis Stolonifera* at varying nano-ZnO concentrations.

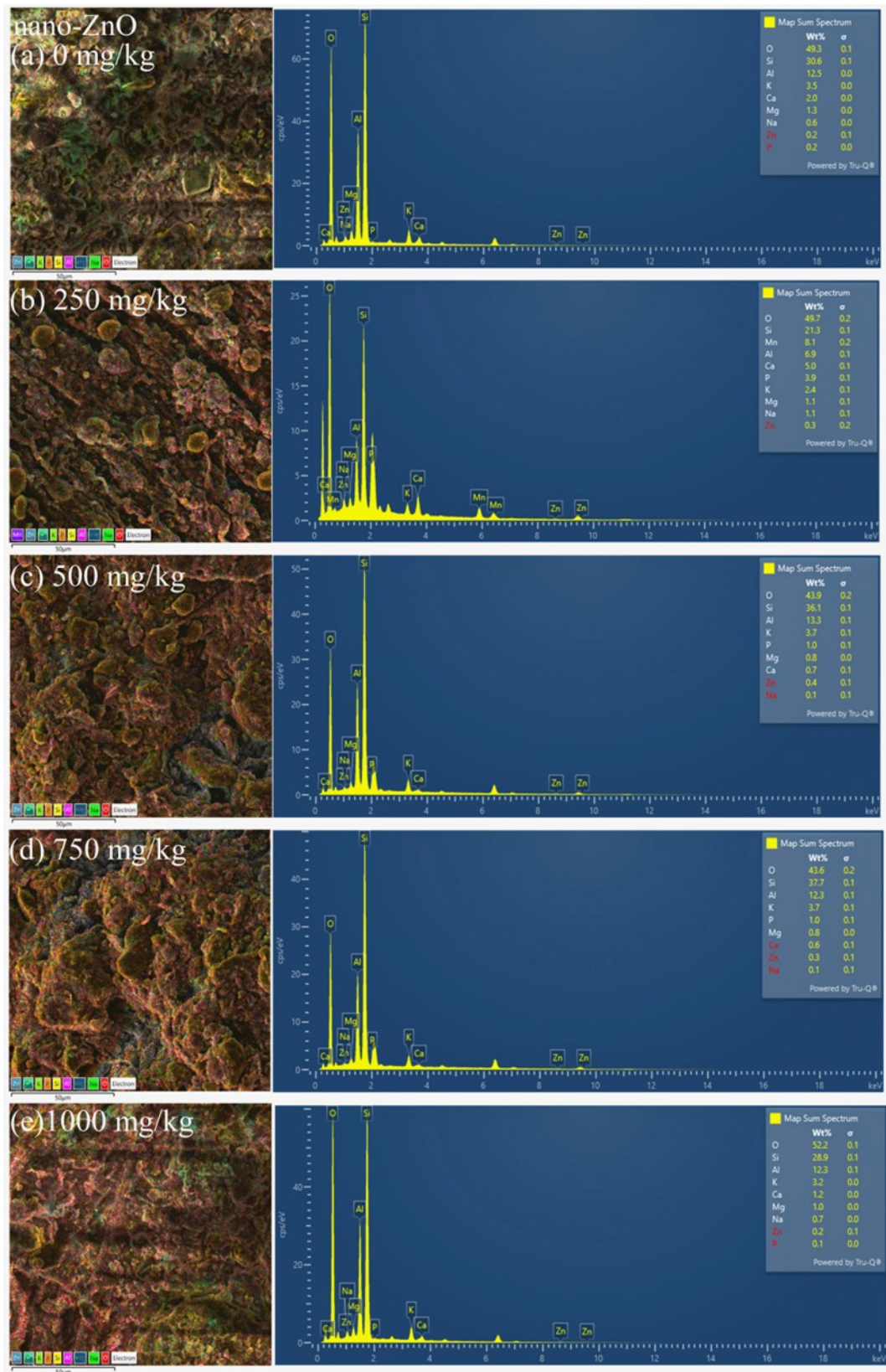


Fig. S3. SEM-Mapping with element composition analysis of root tissues in *Agrostis Stolonifera* at varying nano-ZnO concentrations.

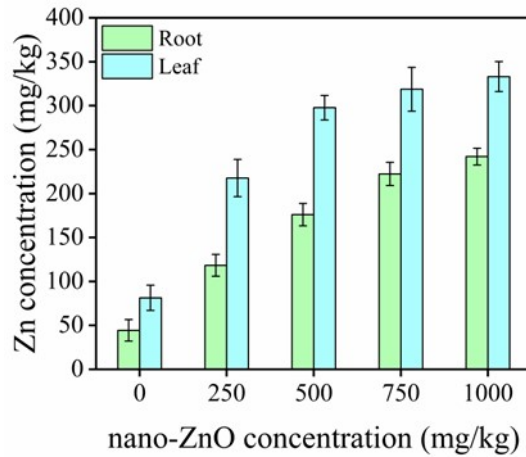


Fig. S4. Zn concentration of root and leaf tissues of *Agrostis Stolonifera* at varying nano-ZnO concentrations.

Table S1. Alpha diversity indices of root microbial community of *Agrostis Stolonifera* at varying nano-ZnO concentrations.

	nano-ZnO concentrations				
	0 mg/kg	250 mg/kg	500 mg/kg	750 mg/kg	1000 mg/kg
Chao1	2280.512	1855.064	1796.542	1689.5	1875.636
ACE	2285.66	1858.384	1800.558	1688.652	1874.406
Shannon	7.063892	6.744568	6.655186	6.591763	6.823909
Simpson	0.001557	0.002321	0.003024	0.003555	0.001902
Coverage	0.999122	0.999297	0.999345	0.999425	0.998962