



**Cultivation of plant materials**

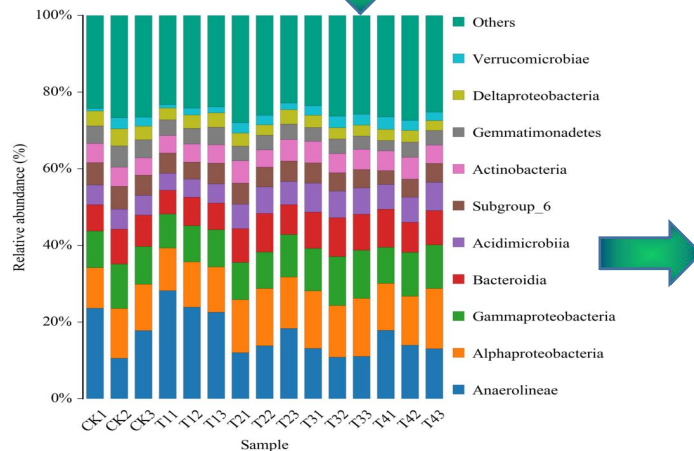
**Grow for 30 days**



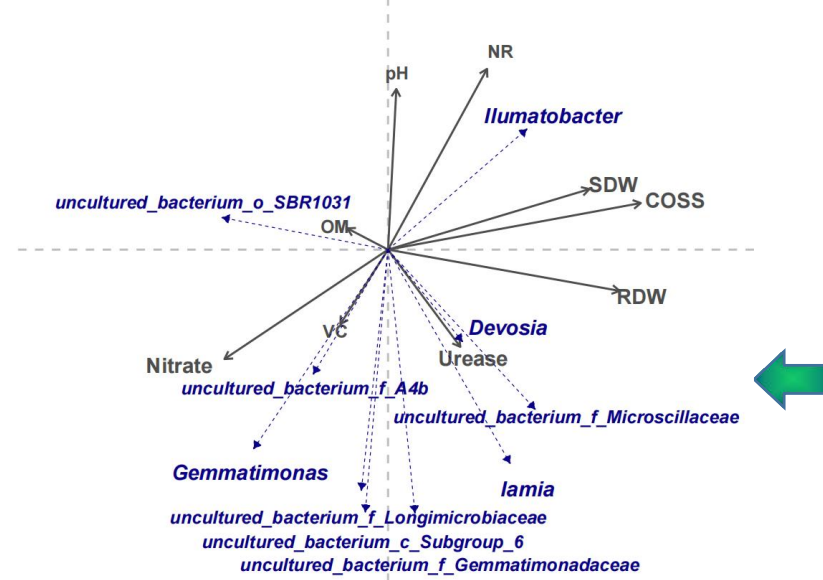
**Investigation of biomass**



**soil DNA extraction**



**Analysis of soil microbial diversity**



**Redundancy analysis**

**Table 3. Effects of different cultivation modes on the quality of Chinese cabbage.**

Treatments	Soluble sugar (mg·100g <sup>-1</sup> )	Soluble protein (mg·g <sup>-1</sup> )	VC (mg·100g <sup>-1</sup> )	Cellulose (%)	Nitrate (mg·kg <sup>-1</sup> )	Nitrite reductase [ $\mu\text{g}\cdot\text{g}^{-1}\cdot\text{h}^{-1}$ ]
CK	25.76±1.90b	1.44±0.02b	4.32±0.54b	1.70±0.07d	286.93±5.86b	50.79±1.62b
T1	41.01±1.15a	1.55±0.05b	3.06±0.31b	2.58±0.10c	257.71±0.59c	57.54±5.03b
T2	39.18±2.33a	1.65±0.08a	5.50±0.41a	3.96±0.25b	225.67±0.44d	75.89±3.01a
T3	14.46±0.48d	1.56±0.12b	6.30±1.38a	4.56±0.18a	301.48±0.69a	88.86±4.01a
T4	20.01±0.69c	1.54±0.06b	5.40±1.08a	2.89±0.16c	288.08±9.01b	86.84±1.05a

**Quality of measurement**