

**Supplemental Table 1. p-Value of statistical analysis of figure 2.**

<b><u>Main effects</u></b>	<b>Total phenolic compounds</b>		<b>Antioxidant activity</b>	
	Outer leaves	Young leaves	Outer leaves	Young leaves
T	0.000	0.000	0.000	0.000
Put	0.000	0.000	0.000	0.000
NO <sub>3</sub> <sup>-</sup> / NH <sub>4</sub> <sup>+</sup>	0.000	0.000	0.000	0.000
T X Put	0.590	0.703	0.000	0.051
T X NO <sub>3</sub> <sup>-</sup> / NH <sub>4</sub> <sup>+</sup>	0.000	0.003	0.000	0.055
Put X NO <sub>3</sub> <sup>-</sup> / NH <sub>4</sub> <sup>+</sup>	0.000	0.000	0.000	0.000
T X Put X NO <sub>3</sub> <sup>-</sup> / NH <sub>4</sub> <sup>+</sup>	0.000	0.000	0.000	0.000

**Supplemental Table 2. p-Value of statistical analysis of Table 2. Effect of the foliar application of putrescine on the concentrations of sugars (g kg<sup>-1</sup> DW) in outer leaves of the cauliflower cv. Moonshine at different NO<sub>3</sub><sup>-</sup>/NH<sub>4</sub><sup>+</sup> ratios and temperatures.**

<b>Temperature</b>	<b>NO<sub>3</sub><sup>-</sup>/NH<sub>4</sub><sup>+</sup></b>	<b>Inositol</b>	<b>Glucose</b>	<b>Fructose</b>	<b>Sucrose</b>	<b>Total free sugars</b>
<b>Main effects</b>						
Temperature (T)		0.000	0.000	0.000	0.000	0.000
Putrescine (Put)		0.000	0.000	0.000	0.000	0.007
Nitrate/ammonium (NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup> )		0.000	0.000	0.000	0.000	0.000
T X Put		0.063	0.000	0.653	0.185	0.028
T X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.867	0.000	0.127	0.003	0.000
Put X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.000	0.000	0.000	0.000	0.255
T X Put X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.18	0.000	0.010	0.000	0.021

Supplemental Table 2 continued. p-Value of statistical analysis of Table 2 continued.						
Temperature	NO <sub>3</sub> /NH <sub>4</sub> <sup>+</sup>	Inositol	Glucose	Fructose	Sucrose	Total free sugars
Main effects						
Temperature (T)		0.000	0.000	0.000	0.000	0.000
Putrescine (Put)		0.000	0.008	0.002	0.000	0.002
Nitrate/ammonium (NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup> )		0.000	0.000	0.000	0.000	0.000
T X Put		0.886	0.664	0.953	0.244	0.926
T X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.424	0.593	0.593	0.026	0.609
Put X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.000	0.000	0.000	0.000	0.000
T X Put X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.108	0.048	0.824	0.254	0.241

Supplemental Table 3. p-Value of statistical analysis of Table 3.						
Temperature	NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>	Putrescine	Cadaverine	Spermidine	Spermine	Total
Main effects						
Temperature (T)		0.000	0.000	0.000	0.000	0.000
Putrescine (Put)		0.000	0.000	0.000	0.019	0.000
Nitrate/ammonium (NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup> )		0.000	0.000	0.000	0.137	0.000
T X Put		0.000	0.000	0.042	0.732s	0.000
T X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.000	0.002	0.002	0.201	0.000
Put X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.000	0.000	0.000	0.174	0.000
T X Put X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.000	0.000	0.000	0.000	0.000

Supplemental Table 3 continued. p-Value of statistical analysis of Table 3 continued.						
Temperature	NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>	Putrescine	Cadaverine	Spermidine	Spermine	Total
Main effects						
Temperature (T)		0.000	0.000	0.000	0.000	0.000
Putrescine (Put)		0.000	0.111	0.000	0.013	0.000
Nitrate/ ammonium (NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup> )		0.000	0.072	0.000	0.000	0.000
T X Put		0.205	0.403	0.465	0.445	0.506
T X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.142	0.309	0.234	0.742	0.243
Put X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.000	0.062	0.000	0.000	0.000
T X Put X NO <sub>3</sub> <sup>-</sup> /NH <sub>4</sub> <sup>+</sup>		0.000	0.412	0.442	0.442	0.515