Table 1: Influence of increasing concentrations of As(V) with or without Si and Se on pyruvic acid, citric acid, succinic acid and malic acid contents in 3 weeks old rice seedlings. Different letterings are used to indicate statistically significant treatments differences, at 5% level of significance, for both roots and shoots separately.

Treatments	Pyruvic acid (mg g^{-1} FW)		Citric acid (mg g^{-1} FW)		Succinic acid (mg g^{-1} FW)		Malic acid (mg g^{-1} FW)	
	Root	Shoot	Root	Shoot	Root	Shoot	Root	Shoot
Control	0.13 ± 0.015^{a}	0.09 ± 0.010^{a}	0.22 ± 0.007^{a}	0.10 ± 0.003^{a}	0.15 ± 0.039^{a}	0.35 ± 0.005^{a}	0.45 ± 0.003^{a}	0.29 ± 0.020^{a}
25 µM As(V)	0.18 ± 0.017^{b}	0.11 ± 0.016^{b}	0.28 ± 0.010^{b}	0.11 ± 0.014^{b}	0.24 ± 0.064^{b}	0.53 ± 0.013^{b}	0.60 ± 0.011^{b}	0.35 ± 0.038^{b}
50 µM As(V)	0.19 ± 0.013^{b}	0.13 ± 0.008^{b}	0.31 ± 0.009^{b}	0.13 ± 0.013^{b}	0.26 ± 0.025^{b}	0.56 ± 0.012^{b}	0.65 ± 0.023^{b}	0.38 ± 0.001^{b}
75 µM As(V)	0.20 ± 0.006^{b}	0.14 ± 0.017^{b}	0.32 ± 0.004^{b}	0.15 ± 0.022^{b}	0.27 ± 0.024^{b}	0.58 ± 0.019^{b}	0.68 ± 0.010^{b}	0.42 ± 0.019^{b}
2 mM Si	0.15 ± 0.002^{a}	0.11 ± 0.005^{a}	0.24 ± 0.003^{a}	0.10 ± 0.017^{a}	0.18 ± 0.034^{a}	0.40 ± 0.023^{a}	0.48 ± 0.038^{a}	0.32 ± 0.020^{a}
+ 25 µM As(V)	0.22 ± 0.008^{a}	0.12 ± 0.008^{a}	0.34 ± 0.005^{c}	0.15 ± 0.017^{a}	0.26 ± 0.018^{a}	0.58 ± 0.016^{a}	0.71 ± 0.013^{a}	0.44 ± 0.023^{a}
+ 50 µM As(V)	0.24 ± 0.008^{a}	0.15 ± 0.009^{a}	0.40 ± 0.014^{a}	0.16 ± 0.012^{a}	0.29 ± 0.021^{a}	0.62 ± 0.010^{a}	0.77 ± 0.024^{a}	0.47 ± 0.029^{a}
+ 75 µM As(V)	0.25 ± 0.007^{c}	0.16 ± 0.009^{c}	0.42 ± 0.027^{d}	0.17 ± 0.012^{c}	0.30 ± 0.015^{c}	0.63 ± 0.015^{c}	0.88 ± 0.034^{c}	0.51 ± 0.050^{b}
5 µM Se	0.14 ± 0.004^{a}	0.10 ± 0.006^{a}	0.23 ± 0.006^{a}	0.10 ± 0.010^{a}	0.17 ± 0.054^{a}	0.37 ± 0.063^{a}	0.47 ± 0.058^{a}	0.31 ± 0.050^{a}
+ 25 µM As(V)	0.19 ± 0.010^{d}	0.12 ± 0.009^{a}	0.30 ± 0.007^{a}	0.13 ± 0.016^{a}	0.24 ± 0.049^{a}	0.55 ± 0.036^{a}	0.64 ± 0.043^{a}	0.39 ± 0.033^{a}
+ 50 µM As(V)	0.20 ± 0.011^{d}	0.13 ± 0.010^{a}	0.32 ± 0.024^{a}	0.14 ± 0.012^{a}	0.26 ± 0.061^{a}	0.58 ± 0.040^{a}	0.66 ± 0.034^{d}	0.41 ± 0.049^{a}
+ 75 µM As(V)	0.22 ± 0.009^{a}	0.15 ± 0.011^{a}	0.36 ± 0.037^{a}	0.15 ± 0.024^{a}	0.28 ± 0.055^{a}	0.60 ± 0.035^{a}	0.73 ± 0.063^{d}	0.43 ± 0.030^{a}

Table 2: p-values from significance testing for the effect of Si and Se on different experimental factors in 3 weeks old rice seedlings obtained from two-way ANOVA.

Experimental parameters	p values for Si supplementation			p values for Se supplementation	
	Root	Shoot		Root	Shoot

Pyruvic acid	**0.050**	**0.040**		**0.836**	**0.908**
Citric acid	**0.079**	**0.040**		**0.844**	**0.714**
Succinic acid	**0.033**	**0.029**		**0.789**	**0.808**
Malic acid	**0.010**	**0.046**		**0.960**	**0.983**
Pyruvate dehydrogenase	**0.048**	**0.075**		**0.429**	**0.386**
Isocitrated	**0.025**	**0.019**		**0.502**	**0.165**

ehydrogenase					
α-ketoglutaratedehydrogenase	**0.880**	**0.683**		**0.935**	**0.934**
Succinatedehydrogenase	**0.288**	**0.247**		**0.426**	**0.535**
Fumar	**0.288**	**0.123**		**0.450**	**0.217**

ase					
Malatedehydrogenase	**0.504**	**0.587**		**0.716**	**0.760**
Citratesynthase	**0.019**	**0.710**		**0.468**	**0.501**
γ-aminobutyricacid	**0.002**	**0.014**		**0.043**	**0.476**
Glutamatedehydroge	**0.022**	**0.049**		**0.494**	**0.734**

nase					
Glutamatedecarboxylase	**0.025**	**0.050**		**0.655**	**0.622**
GABAtransaminase	**0.103**	**0.373**		**0.449**	**0.609**
Putrescine	**0.000**	**0.029**		**0.572**	**0.523**
Spermidine	**0.050**	**0.000**		**0.228**	**0.000**
Spermine	**0.003**	**0.001**		**0.007**	**0.086**