

Silicon enhances suberization and lignification in roots of rice (*Oryza sativa*)

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Supplementary Material

Table S1: Effect of silicic acid on relative quantity (RQ) of transcripts in root segment 0-2 cm distance from root tip as measured by microarray analysis. Stars represent significance: * for $p < 0.1$, ** for $p < 0.05$ and *** for $p < 0.01$. Genes not significantly regulated are not shown.

Gene ID	RQ +Si / -Si	Gene Annotation
LOC_Os01g42410	1,4151**	PDR5-like ABC transporter
LOC_Os01g67540	-1,704**	4-coumarate-CoA ligase
LOC_Os05g20100	1,4422**	glycerol-3-phosphate acyltransferase
LOC_Os06g16350	2,4665**	Class III peroxidase
LOC_Os06g39520	-1,3866**	myristoyl-acyl carrier protein thioesterase
LOC_Os07g44560	-1,8572***	4-coumarate-CoA ligase
LOC_Os08g02110	-1,3777**	Class III peroxidase
LOC_Os10g01930	1,813***	Acyltransferase

Table S2: Effect of silicic acid on relative quantity (RQ) of transcripts in root segment 4-6 cm distance from root tip as measured by microarray analysis. Stars represent significance: * for $p < 0.1$, ** for $p < 0.05$ and *** for $p < 0.01$. Genes not significantly regulated are not shown.

Gene ID	RQ +Si / -Si	Gene Annotation
LOC_Os01g22230	-2,8029**	Class III peroxidase
LOC_Os01g22560	2,1559**	glycerol-3-phosphate acyltransferase
LOC_Os01g24010	1,535**	PDR5-like ABC transporter
LOC_Os01g42410	2,1958**	PDR5-like ABC transporter
LOC_Os02g05630	2,4823**	protein phosphatase 2C, regulator protein
LOC_Os02g06250	-1,7841*	phytosulfokine receptor
LOC_Os02g41680	1,9074**	phenylalanine ammonia-lyase
LOC_Os02g57760	-2,2158**	caffeic acid 3-O-methyltransferase
LOC_Os04g59160	2,3224*	Class III peroxidase
LOC_Os05g20100	2,1526***	glycerol-3-phosphate acyltransferase
LOC_Os06g22080	1,8152**	diacylglycerol O-acyltransferase
LOC_Os06g32990	2,9286**	Class III peroxidase
LOC_Os08g03700	1,943***	glycerol-3-phosphate acyltransferase
LOC_Os09g23540	1,9898***	dehydrogenase
LOC_Os09g32964	-1,5739***	Class III peroxidase
LOC_Os10g30610	2,057**	ABC-2 type transporter family protein
LOC_Os11g14050	1,8668***	leucine-rich repeat (LRR) family protein
LOC_Os12g25870	2,2423**	caffeic acid O-methyltransferase (COMT)
LOC_Os12g32814	1,9379**	PDR-like ABC transporter