

Table S1. Statistical parameters of each compared OPLS-DA models and the result of cross-

Stage <sup>a</sup>	Model	R <sub>2</sub> X <sub>(cum)</sub> <sup>b</sup>	Q <sub>2</sub> X <sub>(cum)</sub>	CV-ANOVA ( <i>p</i> ) <sup>c</sup>	Significance <sup>d</sup>
Pre	SS vs RR	0.694	0.588	0.113	ns
	SS vs SR	0.575	0.218	0.888	ns
	RR vs SR	0.580	0.748	< 0.001	**
Post 1	SS vs RR	0.569	0.620	0.078	ns
	SS vs SR	0.643	0.800	0.007	**
	RR vs SR	0.546	0.721	0.010	*
Post 2	SS vs RR	0.680	0.767	0.016	*
	SS vs SR	0.610	0.521	0.262	ns
	RR vs SR	0.645	0.708	0.009	**
Post 3	SS vs RR	0.620	0.587	0.114	ns
	SS vs SR	0.683	0.281	0.861	ns
	RR vs SR	0.589	0.662	0.030	*

validation ANOVA(CV-ANOVA)

<sup>a</sup>Two days before inoculation (pre), and 2 d (post 1), 7 d (post 2) and 30 d post inoculation (post 3).

<sup>b</sup>R<sub>2</sub>X(cum): the cumulative sum of squares(SS) of the entire X explained by all extracted components (Explanation power); Q<sub>2</sub>X(cum): the cumulative Q<sub>2</sub> for all the X-variables (PC) and y-variables (PLS) for the extracted components (Prediction power). This parameter was acquired from Simca-P (ver. 12.0).

<sup>c</sup>ANOVA of cross-validated predictive residuals of OPLS analysis.

<sup>d</sup>\*\*; Correlation is significant at  $P \leq 0.01$ (2-tailed), \*; significant at  $P \leq 0.05$ (2-tailed), ns: not significant.

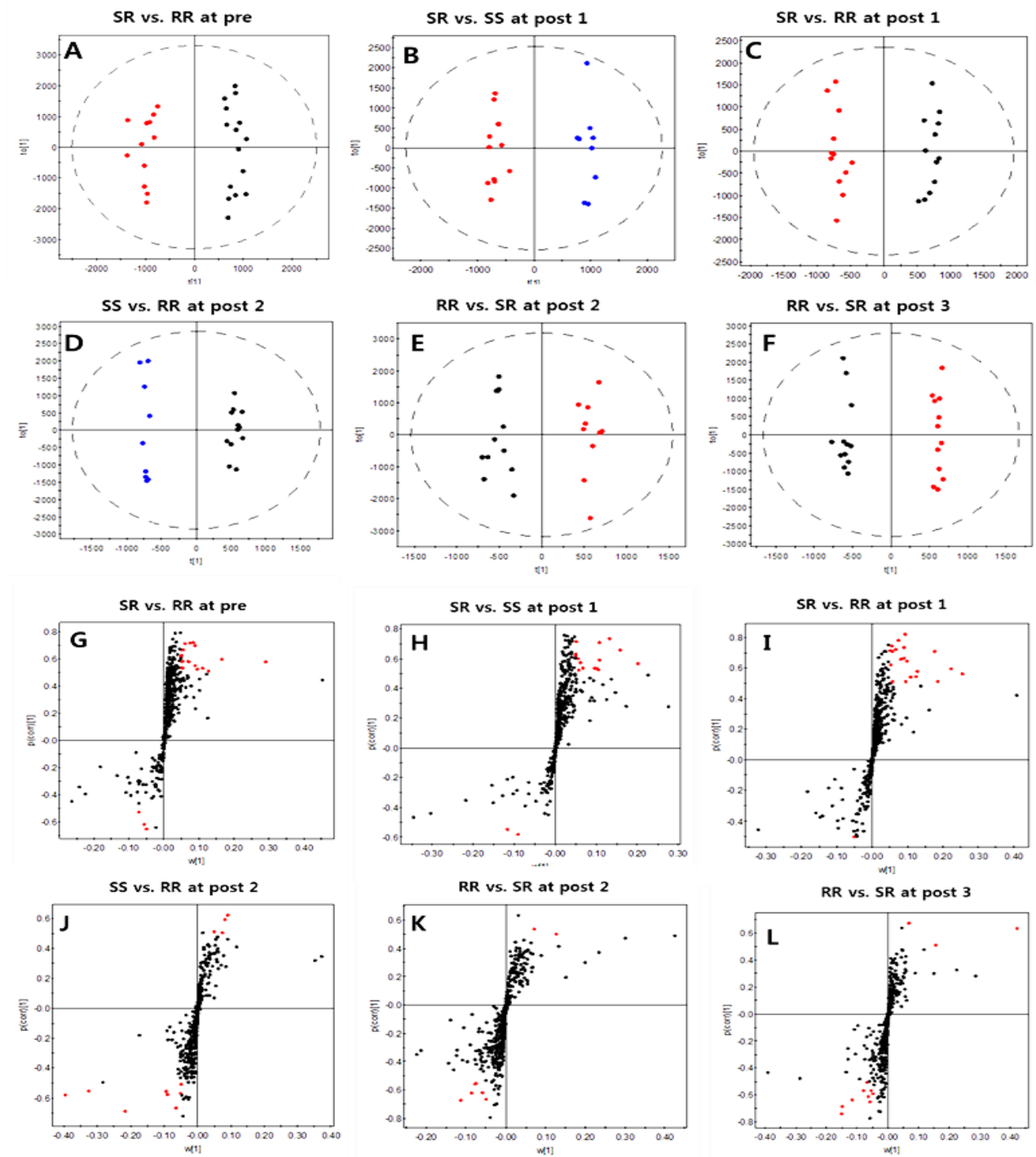


Figure S1. OPLS-DA sample scatter plots (A to F) and their metabolite S-Plots (G to L) of different response types (RR; resistant, SR; moderately resistant, SS; susceptible). In scatter plot, Black dots represent RR, red dots SR, and blue dots SS. The short dashed circle is shown Hotelling's T-squared distribution (0.95). In S-plot, metabolites marking red dots are selected by VIP score ( $>1$ , PLS-DA) and  $p(corr)$  value [ $0.5 < p(corr)$ , OPLS-DA]. Collected metabolites are shown in Table 3.