

Time point	Pathway		Significantly changed metabolites involved in the pathway							
			<u>Citrate</u>	Formate	Glycerate	Glycolate	<u>Isocitrate</u>	Malate	<u>Oxalacetate</u>	
24 hpi	Glyoxylate and dicarboxylate metabolism	SAI	Mean	0.86102	0.00043	0.00216	0.00090	0.86257	0.02338	0.00236
			Std	0.02227	0.00015	0.00028	0.00029	0.02620	0.00758	0.00092
		CHH DSI	Mean	0.95117	0.00011	0.00029	0.00011	0.96713	0.00586	0.00405
			Std	0.00534	0.00003	0.00017	0.00006	0.00372	0.00088	0.00092
		p Value		0.00333	0.00262	0.00001	0.00097	0.00387	0.00647	0.02317
	Nicotinate and nicotinamide metabolism	SAI	Mean	Deamino-NAD ⁺	NAD ⁺	NADP ⁺	Niacinamide	Nicotinate		
			Std	0.00649	0.01047	0.00855	0.00765	0.00683		
		CHH DSI	Mean	0.00309	0.00385	0.00321	0.00272	0.00262		
			Std	0.00115	0.00185	0.00144	0.00162	0.00170		
		p Value		0.00010	0.00013	0.00010	0.00057	0.00050		
	Alanine, aspartate and glutamate metabolism	SAI	Mean	Alanine	<u>Asparagine</u>	Aspartate	Glutamate	Glutamine	<u>Oxalacetate</u>	Pyruvate
			Std	0.02569	1.71243	0.01715	0.05132	0.05291	0.00236	0.00110
		CHH DSI	Mean	0.01034	0.03783	0.00299	0.02001	0.02437	0.00092	0.00082
			Std	0.00122	1.89366	0.00858	0.00514	0.00523	0.00405	0.00014
		p Value		0.00032	0.01192	0.00099	0.00216	0.00201	0.00092	0.00008
Pyruvate metabolism	SAI	Mean	Acetaldehyde	Acetate	Lactate	Malate	<u>Oxalacetate</u>	Propylene glycol	Pyruvate	
		Std	0.00339	0.01676	0.00360	0.02338	0.00236	0.01738	0.00110	
	CHH DSI	Mean	0.00169	0.01120	0.00143	0.00758	0.00092	0.00864	0.00082	
		Std	0.00037	0.00148	0.00040	0.00586	0.00405	0.00817	0.00014	
	p Value		0.00009	0.00065	0.00012	0.00088	0.00092	0.00013	0.00008	
Nitrogen metabolism	SAI	Mean	<u>Cystathionine</u>	Glutamate	Glutamine					
		Std	1.64975	0.05132	0.05291					
	CHH DSI	Mean	0.17732	0.02001	0.02437					
		Std	1.92118	0.00514	0.00523					
	p Value		0.00805	0.00216	0.00201					
48 hpi	Nicotinate and nicotinamide metabolism	SAI	Mean	Deamino-NAD ⁺	NAD ⁺	NADP ⁺	Niacinamide	Nicotinate		
			Std	0.00603	0.00947	0.00763	0.00701	0.00638		
		CHH DSI	Mean	0.00392	0.00600	0.00479	0.00448	0.00391		
			Std	0.00107	0.00171	0.00134	0.00139	0.00147		
		p Value	0.00020	0.00026	0.00027	0.00075	0.00068			
			0.02665	0.02478	0.02361	0.02737	0.02707			

SAI: saline-injected group; black bar, CHH DSI: CHH double-stranded RNA-injected group. Data are presented as a mean ± standard deviation (std) (n = 6). Those metabolites whose concentration significantly increased after CHH dsRNA treatment were underlined, while those of the rest of the listed metabolites significantly decreased. 24 and 48hpi: 24 and 48 hour post injection, respectively. Statistically significant value for Student's t-test (p Value) was given.