

**Supplemental Table S1.** Inhibition of mycelium of three plant pathogenic fungi by isoxanthohumol.

Compound	Concentration ( $\mu\text{g/mL}$ )	Inhibition rate <sup>a</sup> (%) $\pm$ SD		
		<i>Sclerotinia sclerotiorum</i>	<i>Botrytis cinerea</i>	<i>Fusarium graminearum</i>
Isoxanthohumol	50	84.46 $\pm$ 0.30	85.90 $\pm$ 0.24	63.88 $\pm$ 0.23
	25	79.49 $\pm$ 0.05	78.45 $\pm$ 0.32	60.43 $\pm$ 0.82
	10	33.28 $\pm$ 0.64	61.03 $\pm$ 0.43	45.11 $\pm$ 0.23
	5	11.15 $\pm$ 1.82	57.00 $\pm$ 0.60	27.08 $\pm$ 1.24
	2.5	5.73 $\pm$ 0.14	39.03 $\pm$ 0.93	0.00 $\pm$ 0.00
	EC <sub>50</sub>	<b>14.52</b>	<b>4.32</b>	<b>16.50</b>

<sup>a</sup> Repeat each treatment three times. Data are displayed as mean  $\pm$  SD.

**Supplemental Table S2.** Key DEGs involved in Carbon metabolism and TCA cycle and their primer sequences.

Gene alias	Control FPKM	Treat_FPKM	log2 Fold Change	Annotation	Primer sequences
BCIN_07g05430	0.273	37.186	6.58	Carbon metabolism	F:CGAGAAGGTGCTGAGTTAGA TG R:CCTTTCAGGTTTCAGGGAAGA TT F:CTGTATCCACCCAAGCCTATA C R:TTTCTCTCGTCGTAGCATTCC F:CAATCACTGACGAACCCTCT AA R:AACCAGTCTCCATGCTCTTTC F:ATGCCACCAAGACCATCAC R:CATCTCCGTCGCGTCAATAA F:CTCGTCTGTATGGCCGTATT R:CAAACCGACGAAGCACATTA C F:GGATTTGGCGAGAACAAGGA R:GTGAGTGGTGTGAGCAGAAA
BCIN_15g02910	0.790	4.343	2.46	Carbon metabolism	
Bcboa1	1.436	5.503	1.94	Carbon metabolism	
Bcpio2	0.393	1.596	1.81	Carbon metabolism	
BCIN_12g00360	137.170	51.030	-1.33	Carbon metabolism	
BCIN_02g02750	316.836	529.293	0.82	Citrate cycle (TCA cycle)	

BCIN_05g04430	176.703	288.606	0.79	Citrate cycle (TCA cycle)	F:TTGAATCCAGCTACCGATGC R:GCACTCTCTTCGATGGGAAA TA
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