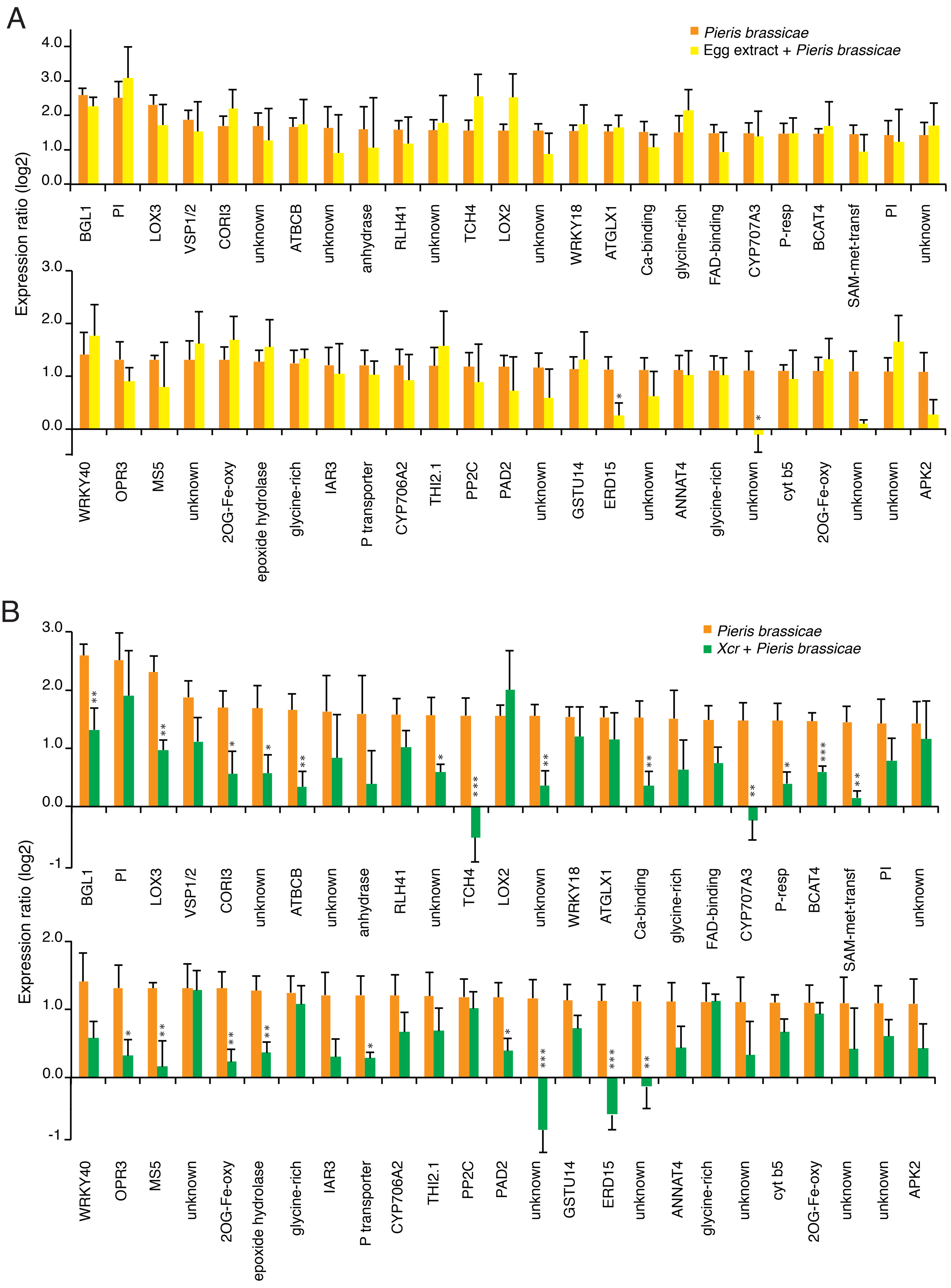
A
Pieris brassicae
Egg extract + Pieris brassicae
Expression ratio (log2)
4.0
3.0
2.0
1.0
0.0
BGL1
PI
LOX3
VSP1/2
CORI3
unknown
ATBCB
unknown
anhydrase
RLH41
unknown
TCH4
LOX2
unknown
WRKY18
ATGLX1
Ca-binding
glycine-rich
FAD-binding
CYP707A3
P-resp
BCAT4
SAM-met-transf
PI
unknown
3.0
2.0
1.0
0.0
*
*
WRKY40
OPR3
MS5
unknown
2OG-Fe-oxy
epoxide hydrolase
glycine-rich
IAR3
P transporter
CYP706A2
THI2.1
PP2C
PAD2
unknown
GSTU14
ERD15
unknown
ANNAT4
glycine-rich
unknown
cyt b5
2OG-Fe-oxy
unknown
unknown
APK2
B
Pieris brassicae
Xcr + Pieris brassicae
Expression ratio (log2)
3.0
2.0
1.0
0.0
-1
BGL1
PI
LOX3
VSP1/2
CORI3
unknown
ATBCB
unknown
anhydrase
RLH41
unknown
TCH4
LOX2
unknown
WRKY18
ATGLX1
Ca-binding
glycine-rich
FAD-binding
CYP707A3
P-resp
BCAT4
SAM-met-transf
PI
unknown
2.0
1.0
0.0
-1
WRKY40
OPR3
MS5
unknown
2OG-Fe-oxy
epoxide hydrolase
glycine-rich
IAR3
P transporter
CYP706A2
THI2.1
PP2C
PAD2
unknown
GSTU14
ERD15
unknown
ANNAT4
glycine-rich
unknown
cyt b5
2OG-Fe-oxy
unknown
unknown
APK2

Fig. S1

Continued

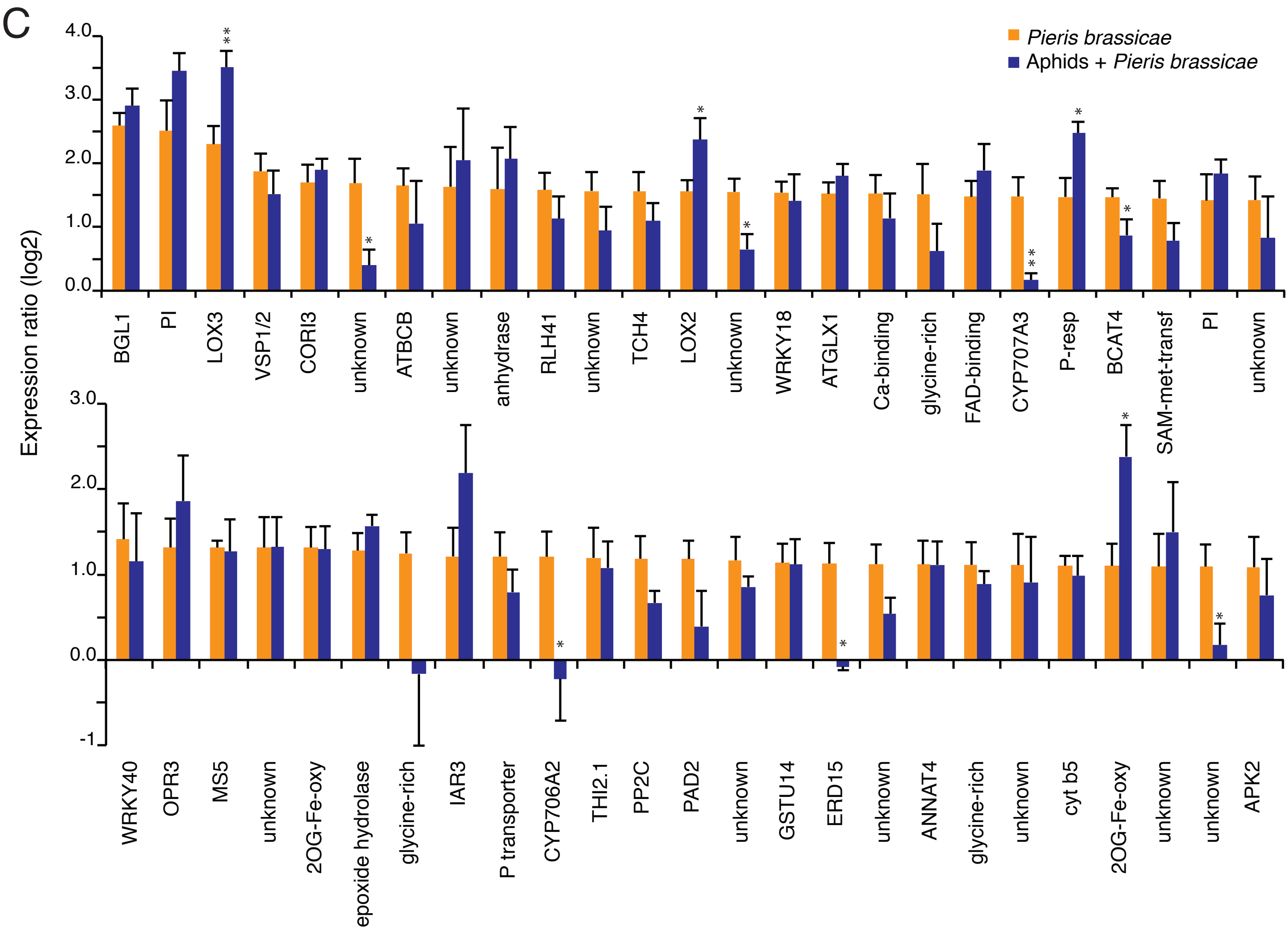

Fig. S1. Expression of the top-50 upregulated genes in response to *P. brassicae* feeding and combined stresses. The highest significantly upregulated genes ($\log_2 > 0.585$, $P < 0.05$) were extracted from microarray data (orange bars) and plotted with values from combined stresses. (A) Egg extract /*P. brassicae* larvae (yellow bars), (B) *Xanthomonas campestris* pv. *raphani* /*P. brassicae* larvae (green bars), and (C) *Brevicoryne brassicae*/*P. brassicae* larvae (blue bars). Significant differences between single and combined stress are indicated (Student's *t*-test, ****P*<0.001, ***P*< 0.01, **P*< 0.05).