

Figure S1. Mass spectrometric analysis of the flavonoids which increased in response to $4 \mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ UV-B radiation for 4 h.

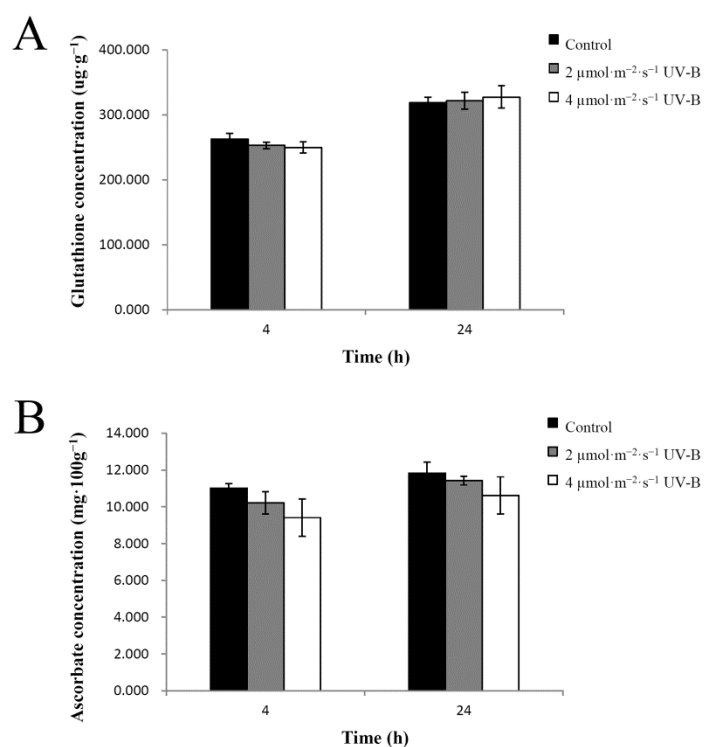


Figure S2. The effect of UV-B radiation on the antioxidant concentrations of pakchoi. **(A)** The glutathione concentration of 25-day-old seedlings treated with either dosage (2 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ or 4 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$) of UV-B radiation at 4 h or 24 h. **(B)** The ascorbate concentration of 25-day-old seedlings treated with either dosage (2 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$ or 4 $\mu\text{mol}\cdot\text{m}^{-2}\cdot\text{s}^{-1}$) of UV-B radiation at 4 h or 24 h. The plants without UV-B radiation served as controls. Three biologically independent replicate experiments were performed; data points represent the mean \pm SE of three biological replicates. Asterisks indicate a significant difference ($*P<0.05$; $**P<0.01$) relative to the corresponding control, using Student's *t*-test.

Table S1. Gradient elution program for HPLC analysis.

Time (min)	Mobile phase A	Mobile phase B
0–8	95%–90%	5%–10%
8–15	90%–90%	10%–10%
15–26	90%–87%	10%–13%
26–35	87%–85%	13%–15%
35–40	85%–85%	15%–15%
40–45	85%–80%	15%–00%
45–55	80%–95%	15%–5%

Table S2. Primers used in quantitative reverse transcription PCR (qRT-PCR).

Gene	Forward primers (5'-3')	Reverse primers (5'-3')
<i>BrActin2</i>	ATGCTCCCAGGGCTGTTTTC	CCTCTTTTGGACTGTGCTTCG
<i>BrPAL</i>	ATGTTTCTTTCGTGCTGCCG	GGTTTGGTGCTACTTCTCATCG
<i>BrC4H</i>	AGCCAACCTGCTCCTCTCTCC	AAGAACCCTGACTCCGCCAC
<i>Br4CL</i>	TGTGAAACATCGGGAGGAAAC	CGGGACTTCCAAAAGGTGTG
<i>BrCHS</i>	CAAAGAGGCGGCAGTGAAGG	AGACGCTTGACGGAAGGACG
<i>BrCHI</i>	CTTTCCTCCTGGTGCTTCG	AATCTCTCGGCAAGACTCAACC
<i>BrF3H</i>	CTCACTTTAAGCGGATACACGG	CACTATCTGAGCAACGGGAGGT
<i>BrF3'H</i>	CGATGTGTGGTAACGAGAGTGG	CGGAGATAATGAGAAAAGCCC
<i>BrFLS</i>	ACATCGAAGGGTACGGAACG	TTAACGCACGACGGTGGC
<i>BrDFR</i>	CCAAGAAGCTGATTGATATGGG	CGGTAAAGTGAAGGGAGAAAACC
<i>BrANS</i>	GGTGGTTCACAAAACACAGCC	TGGAGATTCTTAGTAACGGGAGG
<i>BrLDOX</i>	TAGCACTTGCGTGGAAGC	TGACCCATTTGCCCTCGTAG
<i>BrUFGT</i>	GTATCCGTTGCTCCTCCAGTG	GGGGAAGCCAATGAGACAGAAG