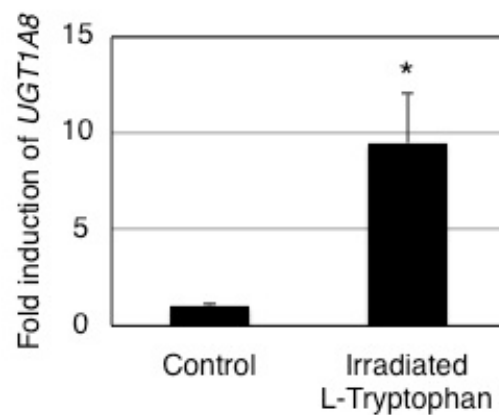


Importance of UDP-glucuronosyltransferase 1A1 expression in skin and its induction by ultraviolet B in neonatal hyperbilirubinemia

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Molecular Pharmacology

Supplemental Figure 1



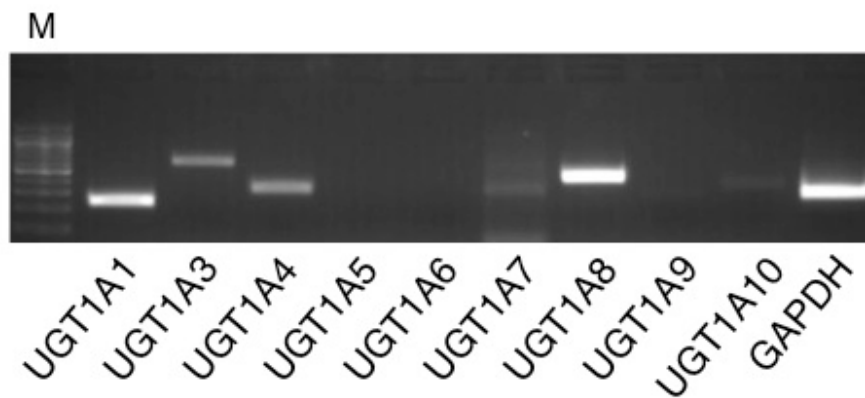
Supplementary Figure 1. The effect of UVB-irradiated L-tryptophan on UGT1A8 expression in HaCaT cells. A 1-mL portion of UVB-irradiated L-tryptophan was added to the cell culture medium and cells were treated for 6 h. Q-RT-PCR was also performed for UGT1A8 using RNA from HaCaT cells treated with L-tryptophan that was irradiated for 5 min. *, $P < 0.05$, compared with the expression in the control HaCaT cells.

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Supplemental Figure 2



Supplementary Figure 2. The effect of FICZ treatment on UGT expression in HaCaT cells.

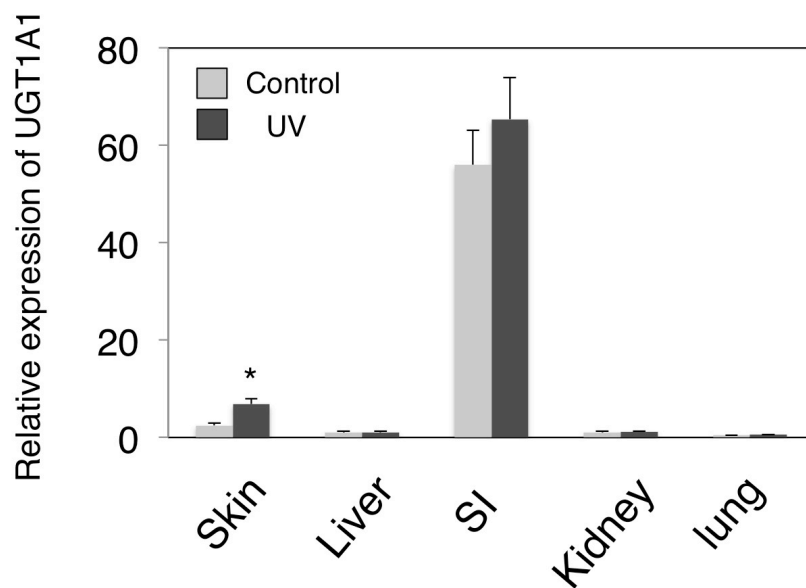
Total RNA was isolated from HaCaT cells that were treated with 50 nM FICZ for 6 h. Complementary DNA was synthesized, and then semi-quantitative RT-PCR was carried out for human UGT1 family enzymes. A 1- μ l portion of cDNA was added to PCR mixtures (25 μ l). The PCR products (20 μ l) were analyzed by electrophoresis with 2% agarose gel and visualized by ethidium bromide staining. M, 100 bp ladder marker.

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Supplemental Figure 3



Supplementary Figure 3. UGT1A1 expression in tissues of control and UVB-treated *hUGT1* mice. Three-day-old *hUGT1* mice were exposed to UVB light for 1 hour. Twenty-four hours after the treatment, tissues were isolated and Q-PCR was conducted to quantitate UGT1A1 expression levels. The UGT1A1 expressions were normalized to that of mouse CPH, and the relative expression levels were shown as fold increase or decrease relative to the control liver. SI, small intestine. *, $P < 0.05$, compared with the expression in the control *hUGT1* mice.