Supplementary material

Transporter gene regulation in sandwich cultured human hepatocytes through the activation of constitutive androstane receptor (CAR) or aryl hydrocarbon receptor (AhR)

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Running title: Transporter gene regulations by AhR and CAR ligands

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Figure 1. The lot differences of gene induction by CITCO (5 µM), PB (1000 µM), OP (50 µM) and TCDD (50 nM) in SCHH. The gene expressions were quantitated by real-time quantitative reverse transcription polymerase chain. Gene expression for each condition is expressed as a fold-change of mean ± standard deviation (SD) from three independent donors (each performed in triplicate). Dot lines indicate the change of 2-fold.
Lot differences of gene induction by PB

Lot differences of gene induction by OP
Table 1. The Ct values of β-actin and GAPDH in sandwich cultured hepatocytes treated with inducers (lot YTW)

| TCDD (nM) | β-actin | GAPDH | Omeprazole (µM) | β-actin | GAPDH |
|-----------|---------|-------|-----------------|---------|-------|
| 0         | 20.46   | 20.02 | 20.25           | 21.06   | 20.84 | 20.26 | 20.54 | 20.94 | 20.83 | 20.51 | 20.56 | 20.86 |
| 0.08      | 20.86   | 20.43 | 20.69           | 21.44   | 21.98 | 21.62 | 0.08  | 21.74 | 21.98 | 21.87 | 21.38 | 21.98 | 21.45 |
| 0.4       | 19.60   | 19.57 | 19.57           | 20.06   | 20.26 | 19.47 | 0.4   | 19.42 | 19.84 | 20.07 | 20.48 | 20.81 | 20.67 |
| 2         | 20.22   | 20.11 | 20.17           | 21.60   | 21.28 | 21.20 | 2.00  | 20.12 | 20.70 | 20.76 | 21.32 | 21.28 | 21.81 |
| 10        | 19.72   | 19.93 | 19.98           | 21.19   | 21.17 | 20.94 | 10.00 | 20.00 | 20.27 | 20.68 | 21.29 | 21.03 | 21.64 |
| 50        | 19.31   | 19.38 | 19.67           | 19.86   | 20.38 | 19.80 | 50.00 | 19.25 | 19.49 | 19.45 | 20.20 | 20.16 | 19.87 |

| CITCO (µM) | β-actin | GAPDH | phenobarbital (µM) | β-actin | GAPDH |
|------------|---------|-------|-------------------|---------|-------|
| 0          | 20.22   | 19.57 | 19.94             | 20.21   | 20.45 | 20.34 | 0     | 19.99 | 19.46 | 19.72 | 19.86 | 19.75 | 19.92 |
| 0.008      | 19.90   | 19.44 | 19.90             | 20.59   | 19.17 | 19.43 | 1.6   | 19.93 | 19.32 | 19.46 | 19.64 | 19.14 | 19.77 |
| 0.04       | 20.87   | 20.46 | 19.71             | 20.54   | 19.75 | 19.91 | 8     | 19.13 | 19.13 | 19.08 | 19.90 | 19.43 | 19.55 |
| 0.2        | 18.98   | 19.02 | 19.26             | 20.34   | 19.68 | 20.06 | 40    | 19.03 | 19.32 | 19.16 | 19.30 | 19.31 | 19.25 |
| 1          | 20.66   | 20.52 | 20.12             | 21.04   | 19.98 | 20.21 | 200   | 19.37 | 19.22 | 19.18 | 19.47 | 19.66 | 19.01 |
| 5          | 19.92   | 20.86 | 20.29             | 20.36   | 20.73 | 19.93 | 1000  | 20.13 | 19.93 | 19.86 | 20.13 | 20.11 | 19.50 |