

Table S3 Time-related APAP exposure in non-inoculate membrane, gut-on-chips, gut-liver-on-chips, and liver-on-chips (n=3)

Time (h)	Concentration (mM)							
	Chamber above				Chamber below			
	Non-inoculate Membrane	Gut	Gut+3D liver	3D liver	Non-inoculate Membrane	Gut	Gut+3D liver	3D liver
0	11.10±0.00	11.10±0.00	11.10±0.00	11.10±0.00	0.00±0.00	0.00±0.00	0.00±0.00	0.00±0.00
1	7.57±0.47**	10.08±0.52	9.38±0.22	7.36±0.16**##	0.91±0.21**##	0.03±0.01	0.14±0.10	1.73±0.15**##
2	7.35±1.20*	9.33±0.42	8.13±0.43	6.86±0.20*	1.87±0.33**##	0.18±0.01	0.10±0.00	2.19±0.36**##
4	5.99±0.27#	8.25±1.78	9.34±0.93	5.46±0.70#	2.53±0.57**##	0.36±0.10	0.40±0.02	2.46±0.21**##
8	4.51±0.26*	7.71±0.98	7.68±1.69	5.02±1.07	3.32±0.38**##	0.97±0.08	0.81±0.07	3.33±0.21**##
24	3.67±0.26**	6.12±0.90	6.22±0.70	4.18±0.22*#	4.44±0.63**##	2.73±0.10	2.27±0.09	3.64±0.42#
48	4.02±0.30	3.69±0.17	4.36±0.34	4.48±0.92	4.02±0.47	2.88±0.33	3.39±0.16	4.43±0.89*

Compared with gut-on-chips, *:P<0.05, **:P<0.01

Compared with gut-liver-on-chips, #:P<0.05, ##:P<0.01

