

**Supplementary file PONE-D-15-21369**

**S2. Testosterone metabolism in Rat Liver Microsomes (CYP3A4)**

Compound	Concentration (µM)	% of control	Average	S.E.
Control	0	103.2647217	100.00	2.54
	0	101.7325935		
	0	95.0026848		
Ketoconazole	2.5	73.87506712	74.82	2.42
		79.40934312		
		71.19026311		
	25	37.78414176	33.06	2.41
		31.52675855		
		29.88007875		
	50	21.99749418	20.49	1.75
		17.01449794		
		22.47001969		
	100	15.7615894	14.82	0.54
		14.82011813		
		13.87864686		
	200	16.17683909	13.90	1.45
		14.32253445		
		11.19384285		
Resveratrol	2	103.83	106.69	1.66
		106.64		
		109.60		
	5	78.64	82.46	1.96
		83.67		
		85.08		
	10	70.65	71.07	0.74
		70.05		
		72.51		
	25	51.28	51.76	0.26
		52.16		
		51.84		
	50	48.18	48.25	0.89
		46.75		
		49.82		

Keto- statistics				
Level	Tukey-letters			Mean
Control	A			100.00
Keto 2.5 µM		B		74.82
Keto 25 µM			C	33.06
Keto 50 µM			D	20.49
Keto 100 µM			D	14.82
Keto 200 µM			D	13.90

Res- statistics				
Level	Tukey-letters			Mean
Res 2 µM	A			106.69
Res 5 µM		B		82.46
Res 10 µM			C	71.07
Res 25 µM			D	51.76
Res 50 µM			D	48.25

<b>Resveratrol Aldehyde (RA)</b>	2	96.71	104.07	4.24
		104.10		
		111.41		
	5	86.46	87.50	4.47
		80.32		
		95.71		
	10	81.17	79.65	3.76
		85.26		
		72.51		
	25	63.34	63.48	0.70
		64.76		
		62.33		
	50	55.41	50.78	3.97
		54.05		
		42.89		
	75	46.06	45.71	0.67
		44.42		
		46.65		
	100	46.67	44.54	1.61
		45.57		
		41.39		

RA- statistics				
Level	Tukey-letters			Mean
RA 2 $\mu$ M	A			104.07
RA 5 $\mu$ m		B		87.50
RA 10 $\mu$ M		B		79.65
RA 25 $\mu$ M			C	63.48
RA 50 $\mu$ M			C	50.78
RA 75 $\mu$ M			D	45.71
RA 100 $\mu$ M			D	44.54