

Table 4. $C_{max}/LCRD$ ratios for metabolomics and transcriptomics experiments to determine likelihood of therapeutic doses resulting in high enough exposure levels to cause observed responses in humans.

Chemical	Metabolomics BMC LCRD (μM)	Transcriptomics BMC LCRD (μM)	Reference Human Plasma Concentrations in μM^1	Metabolomics $C_{max}/LCRD$	Transcriptomics $C_{max}/LCRD$
Chlorpromazine	0.65	0.70	0.47	0.73	0.68
KCl	3.78	159.38	-----	-----	-----
Rifampicin	1.23	8.56	13.00	10.53	1.52
Ritonavir	0.20	0.32	15.50	75.98	47.84
Sucrose	20.02	72.74	-----	-----	-----
Tamoxifen	0.54	1.20	0.32	0.60	0.27

1. Reference human plasma concentrations were obtained from Drug Matrix, Goodman & Gilman, and the Physician's Desk Reference.