Table S3. Related to Figure 1, Figure 4, Figure 5 and Figure 6. Clinically accessible drug dose ranges for vemurafenib, dabrafenib, cobimetinib and trametinib. Clinical accessible drug dose ranges were calculated using upper and lower bounds in plasma concentrations of human subjects treated with the dosage regimen as described in the table. Plasma concentrations in μ g/mL were converted to μ M using the drug's molecular weight (g/moL). In cases in which primary measurements were given as mean and standard deviations, upper and lower bounds were calculated as the mean minus or plus one standard deviation.

Drug	Molecular Weight (g/moL)	Lower bound (µg/mL)	Upper bound (µg/mL)	Lower bound (µM)	Upper bound (µM)	N patients	Dosage regimen	Reference
Vemurafenib	489.922	1.46	84.16	2.98	171.78	23	960 mg/day (four 240-mg tablets) orally taken every 12 hours. Measured at 1 day and 15 day after starting treatment.	PMID: 25899783 (Table 2)
Dabrafenib	519.56	15.4	279.6	0.03	0.54	27	300 mg/day (two 75-mg tablets) orally take twice daily. Measured 15 days after starting treatment.	PMID: 28709799 (Table 1)
Cobimetinib	531.3	24	344	0.05	0.65	19	60 mg/day (three 20-mg tablets) orally taken once daily. Measured 8 hours after starting treatment.	Clinical Pharmacology NDA Review (NDA 206192) Table 6 (Stage II)
Trametinib	615.39	4.1	32.9	0.0067	0.053	27	2 mg/day (one 2 mg tablet) orally taken once daily. Measured 15 days after starting treatment.	PMID: 28709799 (Table 1)