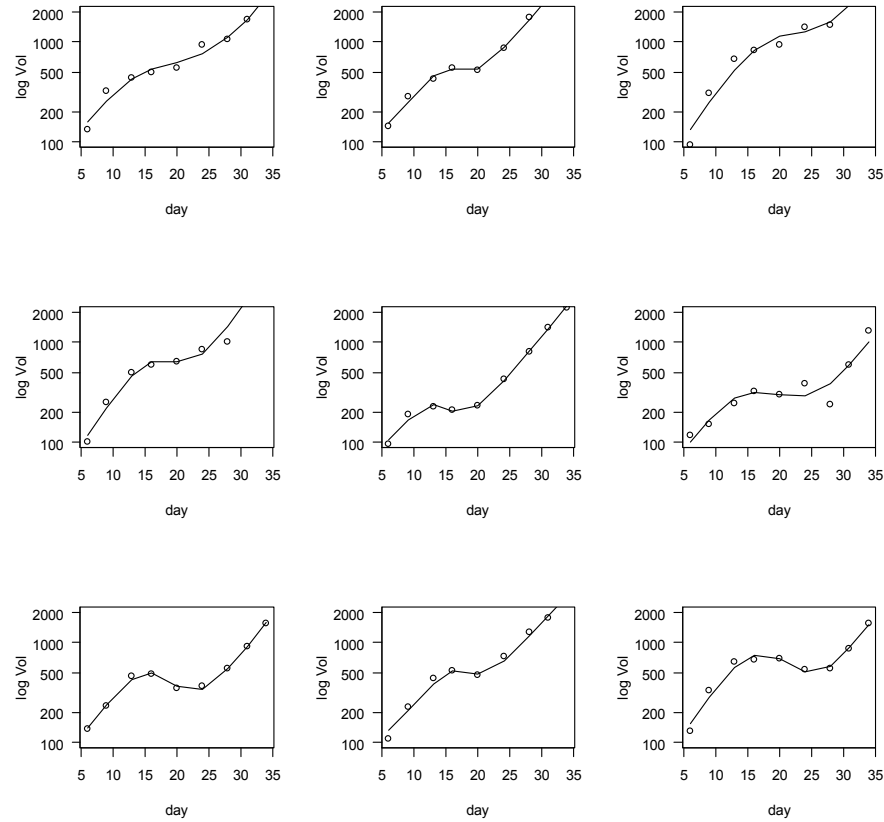


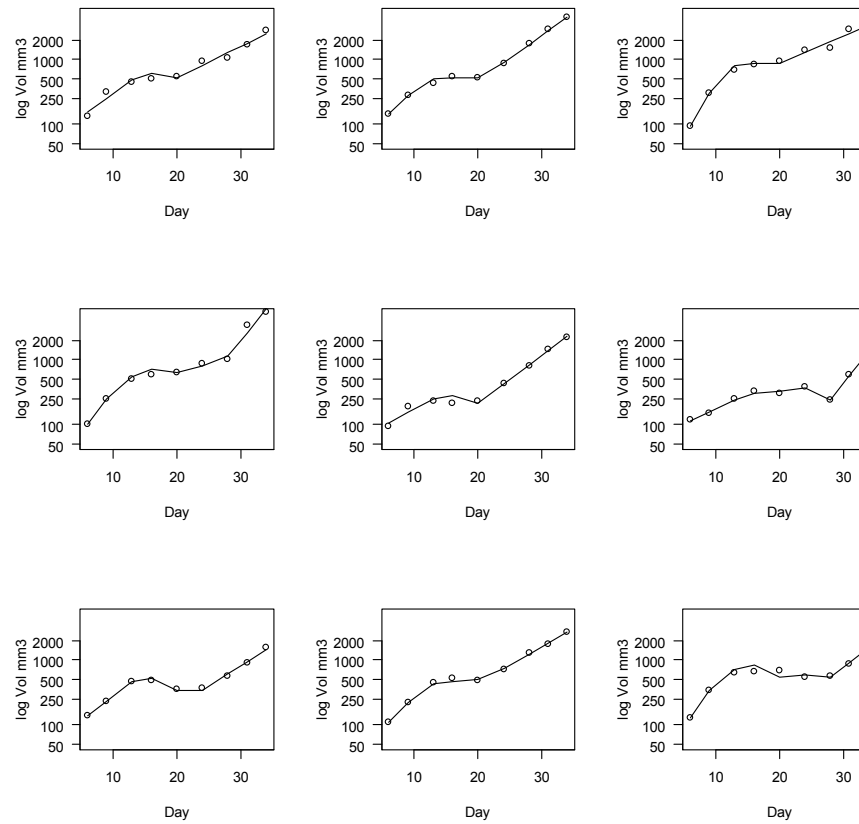
Table S1. Non-Linear Mixed Effects

Treatment	Parameter	Est.	S.E.	95% C.I.
Control	β_0	3.75	0.10	(3.54, 3.96)
	β_1	0.17	0.01	(0.16, 0.19)
A	-	-	-	-
B	-	-	-	-
A+B	β_0	4.23	0.18	(3.88, 4.59)
	β_1	0.12	0.01	(0.10, 0.15)
	β_2	-1.37	0.61	(-2.58, -0.16)
	θ	16.76	0.91	(14.94, 18.58)
	η	2.38	0.35	(1.69, 3.07)

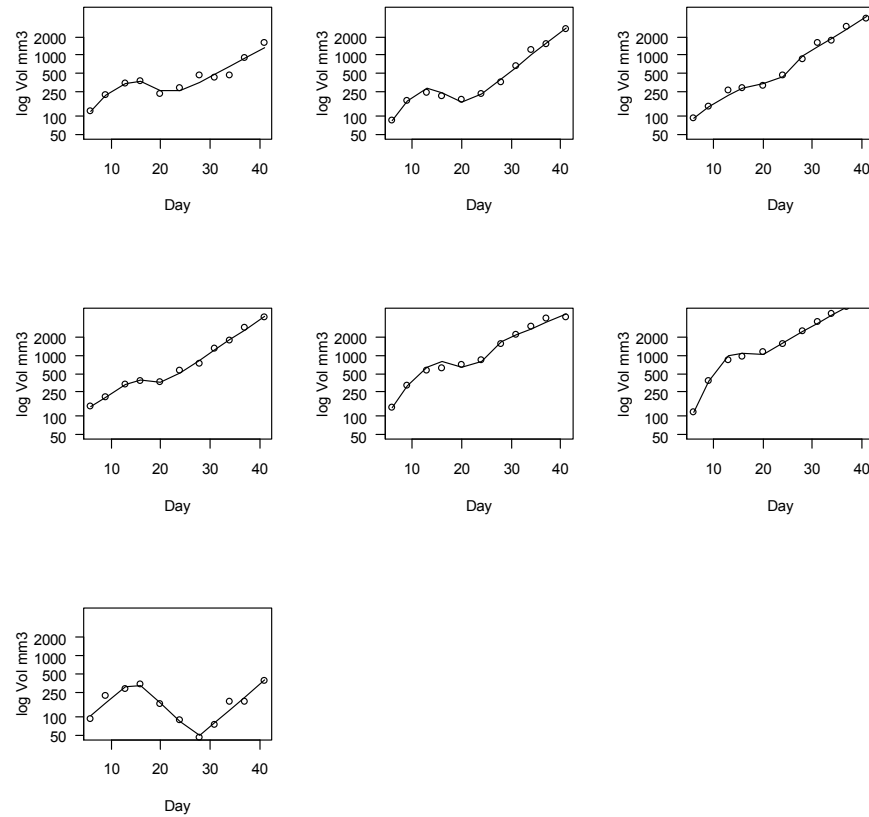
Supplemental Figure S1. Fitted Non-linear Least Squares, Drug B group, sub-figures display the tumor volumes (points) for each non-TF mouse replicate over time (days) treated with drug B, superimposed with fitted values (line) by non-linear least squares.



Supplemental Figure S2. Fitted Piece-wise Model, Drug B group , sub-figures display the tumor volumes (points) for each non-TF mouse replicate over time (days) treated with drug B, superimposed with fitted values (line) by piece-wise modeling.



Supplemental Figure S3. Fitted Piece-wise Model, Drug A+B group, sub-figures display the tumor volumes (points) for each non-TF mouse replicate over time (days) treated with drug combination A+B, superimposed with fitted values (line) by piece-wise modeling.



Supplement Figure S4.(a) Shown (light grey) are the pairwise ratios of tumor volumes, $e^{y_{3jt}-y_{4j't}}$ group B ($i=3$) relative to group A+B ($i=4$), for all possible pairs of tumors j, j' . Sample mean of the distribution of ratios is shown (dark blue solid), with 10% upper and 10% lower quantiles (dark blue dashed). (b) Repeated as in (a) for the ratios of all possible pairs of tumors within each respective group $e^{y_{3jt}-y_{3j't}}$ and $e^{y_{4jt}-y_{4j't}}$ for all $j \neq j'$.

