**Supplemental Methods**

Error metrics for measured and modeled data were calculated as in the following equations:

median absolute error =$ median( | X\_{measured, i} – X\_{modeled, i}| )$ (1)

mean absolute error =$ mean( | X\_{measured, i} – X\_{modeled, i}| )$ (2)

median absolute percentage error =$ median\left(\frac{| X\_{measured, i} – X\_{modeled, i}|}{X\_{measured, i}}\right) x 100\%$ (3)

mean percentage error =$ mean\left(\frac{| X\_{measured, i} – X\_{modeled, i}|}{X\_{measured, i}}\right) x 100\% $ (4)

where Xmeasured, i and Xmodeled, i are the ith corresponding pair of measured and modeled data respectively within the dataset.