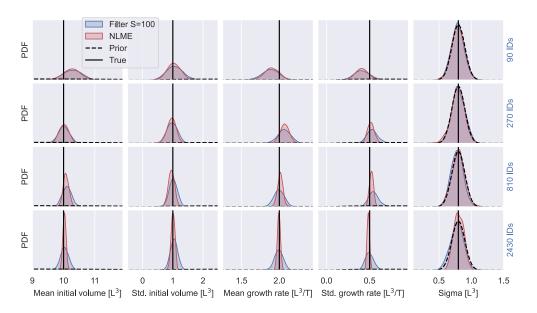**S1 Fig. IIV-noise identifiability of early cancer growth model I.** The figure shows inference results of the early cancer model using NLME inference and filter inference with a Gaussian filter and $S = 100$ simulated individuals. The parameters are estimated from snapshot datasets with measurements from $N = 90$, $N = 270$, $N = 810$, $N = 2430$ individuals. The measurements are generated for 6 time points between 0 and 0.6 as described in Early cancer growth model inference. The first row shows the posterior distributions inferred from measurements of $N = 90$ individuals. The second, third and fourth row analogously show the results for $N = 270$, $N = 810$ and $N = 2430$. The filter posteriors are illustrated in blue and the NLME posteriors are illustred in red. The prior distributions are illustrated by black dashed lines and the data-generating parameter values are depicted by solid black lines.