

S2 Fig. Early cancer growth measurement distribution. The figure is an extension of [S1 Fig](#) and shows the measurement distribution $p(y|\theta, t)$ of the early cancer growth model at $t = 0$, $t = 0.3$ and $t = 0.6$ for three different sets of parameter values. The measurement distribution corresponding to the data-generating parameters, $\theta = (\mu_{y_0}, \sigma_{y_0}, \mu_\lambda, \sigma_\lambda, \mu_\sigma) = (10, 1, 2, 0.5, 0.8)$, is shown in black. A measurement distribution that overestimates the IIV contributions to the measurement variability, $\theta = (10, 1.195, 2, 0.5, 0.47)$, is illustrated in blue, and a measurement distribution that overestimates the noise contributions to the measurement variability, $\theta = (10, 0.7, 2, 0.5, 1.127)$, is illustrated in red.

