

Figure S1

A □

Model
 Run both (ODEs and SDEs) ▼ DREAM4 settings

Experiments

	Steady state	Time series
Wild-type	<input checked="" type="checkbox"/>	
Knockout	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Knockdowns	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Multifactorial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dual knockouts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Time series as in DREAM4 (perturbation removed after $t_{max}/2$)

Number of time series ▲▼

Duration of each time series (t_{max}) ▲▼

Number of measured points per time series ▲▼

Perturbations for multifactorial, dual knockouts, and DREAM4 time series

Generate new
 Load from files

Noise

Noise in the dynamics of the networks (SDEs)
 Coefficient of noise term ▲▼

Noise added after the simulation (measurement error)

None
 Model of noise in microarrays (used for DREAM4)
 Add normal and/or log-normal noise

Add Gaussian noise with standard dev. ▲▼
 Add log-normal noise with standard dev. ▲▼

Normalize after adding noise (as in DREAM4)

B □

Model
 Run both (ODEs and SDEs) ▼ DREAM4 settings

Experiments

	Steady state	Time series
Wild-type	<input checked="" type="checkbox"/>	
Knockout	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Knockdowns	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Multifactorial	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Time series as in DREAM4 (perturbation removed after $t_{max}/2$)

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Duration of each time series (t_{max}) ▲▼

Number of measured points per time series ▲▼

Perturbations for multifactorial, dual knockouts, and DREAM4 time series

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Normalize after adding noise (as in DREAM4)