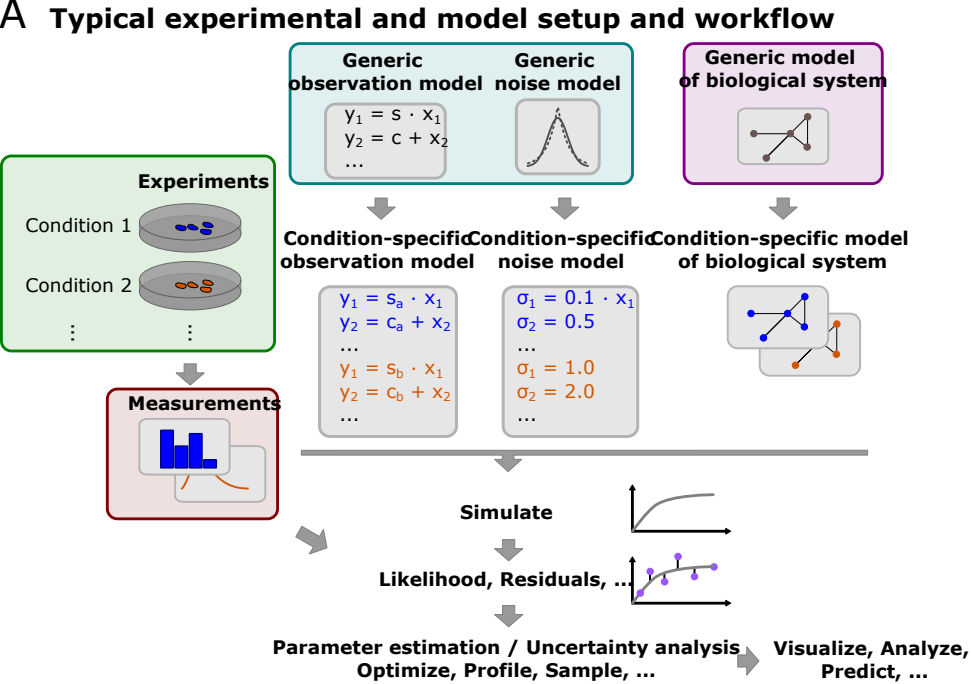

B Representation of the workflow elements in PEtab

Condition table

conditionId	p1	p2	...
Condition1	1.0	1.0	
Condition2	5.0	4.0	
...			

Observable table

observableId	observableFormula	noiseDistribution	noiseParameters
Observable1	s · x1	normal	1.0
Observable2	c + x2	laplace	3.0
...			

Model

SBML

Measurement table

observableId	timecourseId	time	measurement
Observable1	Timecourse1	1.0	2.0
Observable2	Timecourse2	1.0	3.0
...			

Parameter table

parameterId	estimate	nominalValue
Parameter1	1	
Parameter2	0	3.0
...		

Timecourses table

timecourseId	timecourse
Timecourse1	0:Condition1
Timecourse2	0:Condition2
...	