

(input, output, leak), where 0 means absent, and 1 means present	# leaks	Model diagram, where green indicates global identifiability, and blue indicates local identifiability	SIAN Code
(1, 1, 0), (0, 0, 0), (0, 0, 0)	0		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 + u(t), \\ dx2/dt &= k21*x1 - k32*x2, \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x1 \end{aligned}$
(1, 1, 1), (0, 0, 0), (0, 0, 0)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 + u(t) - k01*x1, \\ dx2/dt &= k21*x1 - k32*x2, \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x1 \end{aligned}$
(1, 1, 0), (0, 0, 1), (0, 0, 0)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 + u(t), \\ dx2/dt &= k21*x1 - k32*x2 - k02*x2, \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x1 \end{aligned}$
(1, 1, 0), (0, 0, 0), (0, 0, 1)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 + u(t), \\ dx2/dt &= k21*x1 - k32*x2, \\ dx3/dt &= -k13*x3 + k32*x2 - k03*x3, \\ y &= x1 \end{aligned}$
(0, 0, 0), (0, 0, 0), (1, 1, 0)	0		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3, \\ dx2/dt &= k21*x1 - k32*x2, \\ dx3/dt &= -k13*x3 + k32*x2 + u(t), \\ y &= x3 \end{aligned}$
(0, 0, 1), (0, 0, 0), (1, 1, 0)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 - k01*x1, \\ dx2/dt &= k21*x1 - k32*x2, \\ dx3/dt &= -k13*x3 + k32*x2 + u(t), \\ y &= x3 \end{aligned}$
(0, 0, 0), (0, 0, 1), (1, 1, 0)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3, \\ dx2/dt &= k21*x1 - k32*x2 - k02*x2, \\ dx3/dt &= -k13*x3 + k32*x2 + u(t), \\ y &= x3 \end{aligned}$
(0, 0, 0), (0, 0, 0), (1, 1, 1)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3, \\ dx2/dt &= k21*x1 - k32*x2, \\ dx3/dt &= -k13*x3 + k32*x2 + u(t) - k03*x3, \\ y &= x3 \end{aligned}$
(0, 0, 0), (1, 1, 0), (0, 0, 0)	0		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3, \\ dx2/dt &= k21*x1 - k32*x2 + u(t), \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x2 \end{aligned}$
(0, 0, 1), (1, 1, 0), (0, 0, 0)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 - k01*x1, \\ dx2/dt &= k21*x1 - k32*x2 + u(t), \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x2 \end{aligned}$
(0, 0, 0), (1, 1, 1), (0, 0, 0)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3, \\ dx2/dt &= k21*x1 - k32*x2 - k02*x2 + u(t), \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x2 \end{aligned}$
(0, 0, 0), (1, 1, 0), (0, 0, 1)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3, \\ dx2/dt &= k21*x1 - k32*x2 - k02*x2 + u(t), \\ dx3/dt &= -k13*x3 + k32*x2 - k03*x3, \\ y &= x2 \end{aligned}$
(0, 0, 0), (1, 0, 0), (0, 1, 0)	0		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3, \\ dx2/dt &= k21*x1 - k32*x2 + u(t), \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x3 \end{aligned}$
(0, 0, 1), (1, 0, 0), (0, 1, 0)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 - k01*x1, \\ dx2/dt &= k21*x1 - k32*x2 + u(t), \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x3 \end{aligned}$
(0, 0, 0), (1, 0, 1), (0, 1, 0)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3, \\ dx2/dt &= k21*x1 - k32*x2 - k02*x2 + u(t), \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x3 \end{aligned}$
(0, 0, 0), (1, 0, 0), (0, 1, 1)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3, \\ dx2/dt &= k21*x1 - k32*x2 + u(t), \\ dx3/dt &= -k13*x3 + k32*x2 - k03*x3, \\ y &= x3 \end{aligned}$
(1, 0, 0), (0, 1, 0), (0, 0, 0)	0		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 + u(t), \\ dx2/dt &= k21*x1 - k32*x2, \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x2 \end{aligned}$
(1, 0, 1), (0, 1, 0), (0, 0, 0)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 + u(t) - k01*x1, \\ dx2/dt &= k21*x1 - k32*x2, \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x2 \end{aligned}$
(1, 0, 0), (0, 1, 1), (0, 0, 0)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 + u(t), \\ dx2/dt &= k21*x1 - k32*x2 - k02*x2, \\ dx3/dt &= -k13*x3 + k32*x2, \\ y &= x2 \end{aligned}$
(1, 0, 0), (0, 1, 0), (0, 0, 1)	1		$\begin{aligned} dx1/dt &= -k21*x1 + k13*x3 + u(t), \\ dx2/dt &= k21*x1 - k32*x2, \\ dx3/dt &= -k13*x3 + k32*x2 - k03*x3, \\ y &= x2 \end{aligned}$