

**S6 Table. Simulation parameters.** Here, the simulation parameters for the proposed CCM pathway model are given.

Simulation Time	Start Time	10 s
	Stop Time	30000 s
Solver option	Type	Variable-step
	Solver	Ode45(Dormand-Prince)
	Max step size	Auto
	Min step size	Auto
	Relative tolerance	$1 \times 10^{-3}$
	Initial step size	Auto
	Absolute tolerance	Auto
	Shape preservation	Disable all
	Number of consecutive min steps	1
Zero-crossing options	Zero-crossing control	Use local settings
	Algorithm	Nonadaptive
	Time tolerance	$10 \times 128 \times \text{eps}$
	Signal threshold	Auto
	Number of consecutive zero crossings	1000