

**Table S1: Test Model Coefficients.**

$i$	$\alpha_i$	$a_i$	$b_i$	$c_i$
1	40.0	3	0	1
2	10.0	2	2	1
3	10.0	-3	-4	1
4	20.0	-1	-1	-1
5	0.1	5	3	0.1
6	0.6	7	7	1
7	0.5	3	1.5	2
8	0.05	1	2	3
9	0.0	3	1	1
10	0.01	2	1	2

The only non-zero second-order coefficient is given by  $\beta_{2,5} = 20.0$ .  $\alpha_9 = 10.0$  for the model condition with a direct connection to  $x_9$ .