**Code**

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| **File name** | **Description** |
| Z.mat | Population heterogeneity matrix |
| Params.m | Parameters values |
| ExampleRun.m | Example for running the AND gate model with the population model |

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| **Figure and panel** | **File name** |
| **Figure 1** | |
| C | model\_AND.m |
| D | model\_IMPLY.m |
| E | model\_NAND.m |
| F | model\_NIMPLY\_steric.m |
| G | model\_NIMPLY\_dual.m |
| H | model\_NIMPLY\_splicing.m |
| I | model\_NIMPLY\_cascade.m |
| J | model\_AND\_cascade.m |
| K | model\_Activation.m |
| K | model\_DoubleInversion.m |
| **Figure 2** | |
| B | model\_NIMPLY\_NOT.m |
| C | model\_IF\_NIMPLY.m |
| D | model\_IF\_AND.m |
| E | model\_NIMPLY\_AND.m |
| F | model\_NIMPLY\_NIMPLY.m |
| **Figure 3** | |
| C, F | model\_RaZFa.m |
| E | model\_FKBP.m |
| G, H, I | model\_RaZFaFB.m |
| **Figure 4** | |
| S4A | model\_OneLayer.m |
| S4A | model\_TwoLayer.m |
| S4A | model\_ThreeLayer.m |