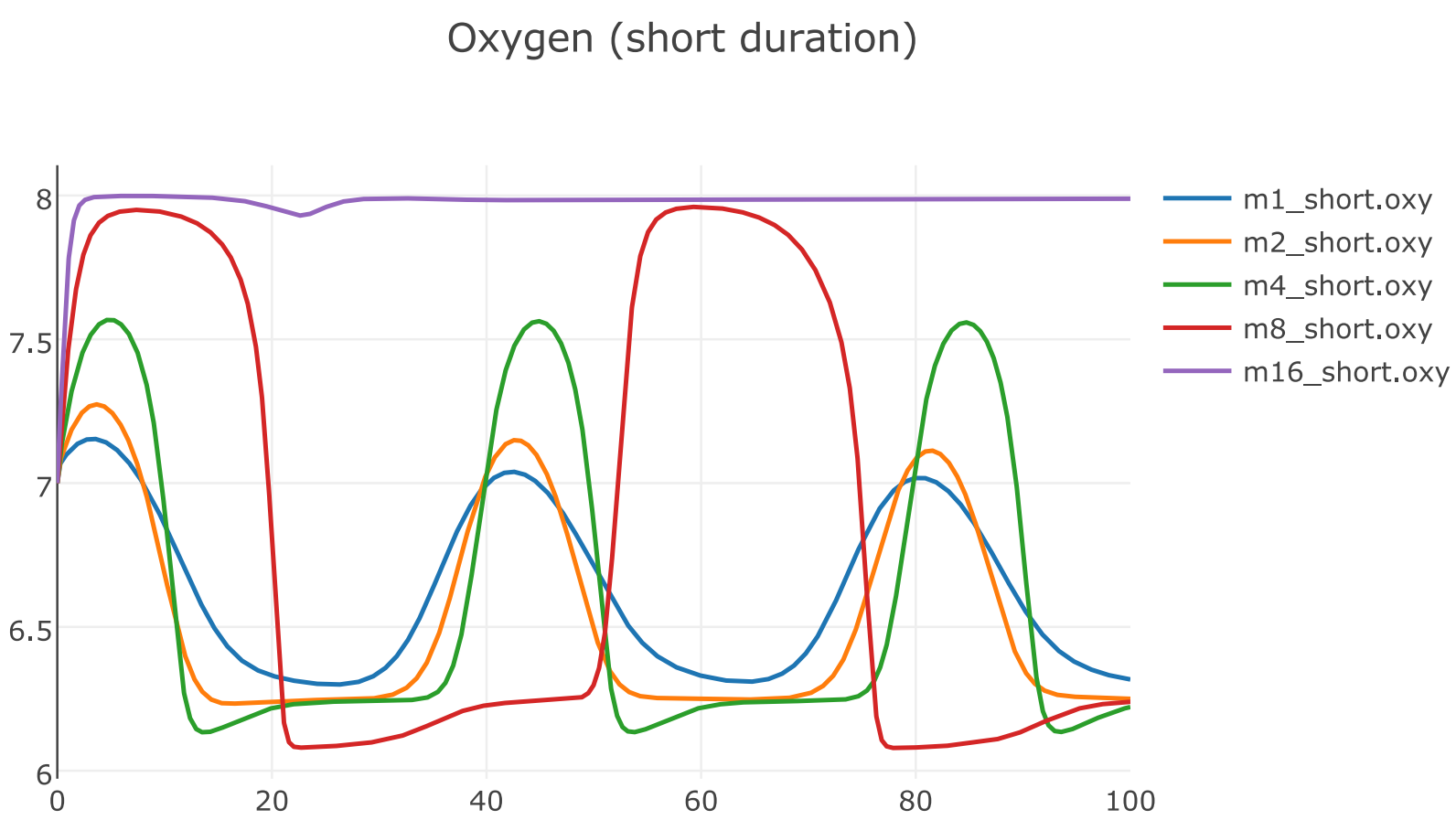
A

```
...
// -- End Antimony block

// -- Begin PhraSEDML block converted from main.xml
// Create five models with different Hill
// coefficients to explore the effect of m
model_m_1 = model "wolf2001" with m=1
model_m_2 = model "wolf2001" with m=2
model_m_4 = model "wolf2001" with m=4
model_m_8 = model "wolf2001" with m=8
model_m_16 = model "wolf2001" with m=16

// The value of m may affect the timescale of the
// dynamics, so simulate on two different timescales
sim_short = simulate uniform(0, 100, 5000)
sim_long  = simulate uniform(0, 200, 5000)

// Run each simulation / Hill coef. combo
m1_short  = run sim_short on model_m_1
m2_short  = run sim_short on model_m_2
m4_short  = run sim_short on model_m_4
m8_short  = run sim_short on model_m_8
m16_short = run sim_short on model_m_16

m1_long  = run sim_long on model_m_1
m2_long  = run sim_long on model_m_2
m4_long  = run sim_long on model_m_4
m8_long  = run sim_long on model_m_8
m16_long = run sim_long on model_m_16

// Plot the results
plot "Oxygen (short duration)" m1_short.time vs m1_short.oxy, m2_short.oxy,
m4_short.oxy, m8_short.oxy, m16_short.oxy
plot "Oxygen (long duration)" m1_long.time vs m1_long.oxy, m2_long.oxy, m4_long.oxy,
m8_long.oxy, m16_long.oxy

// -- End PhraSEDML block
```

Instantiate model with different Hill coefficients

Create two simulations with different time scales

B



C