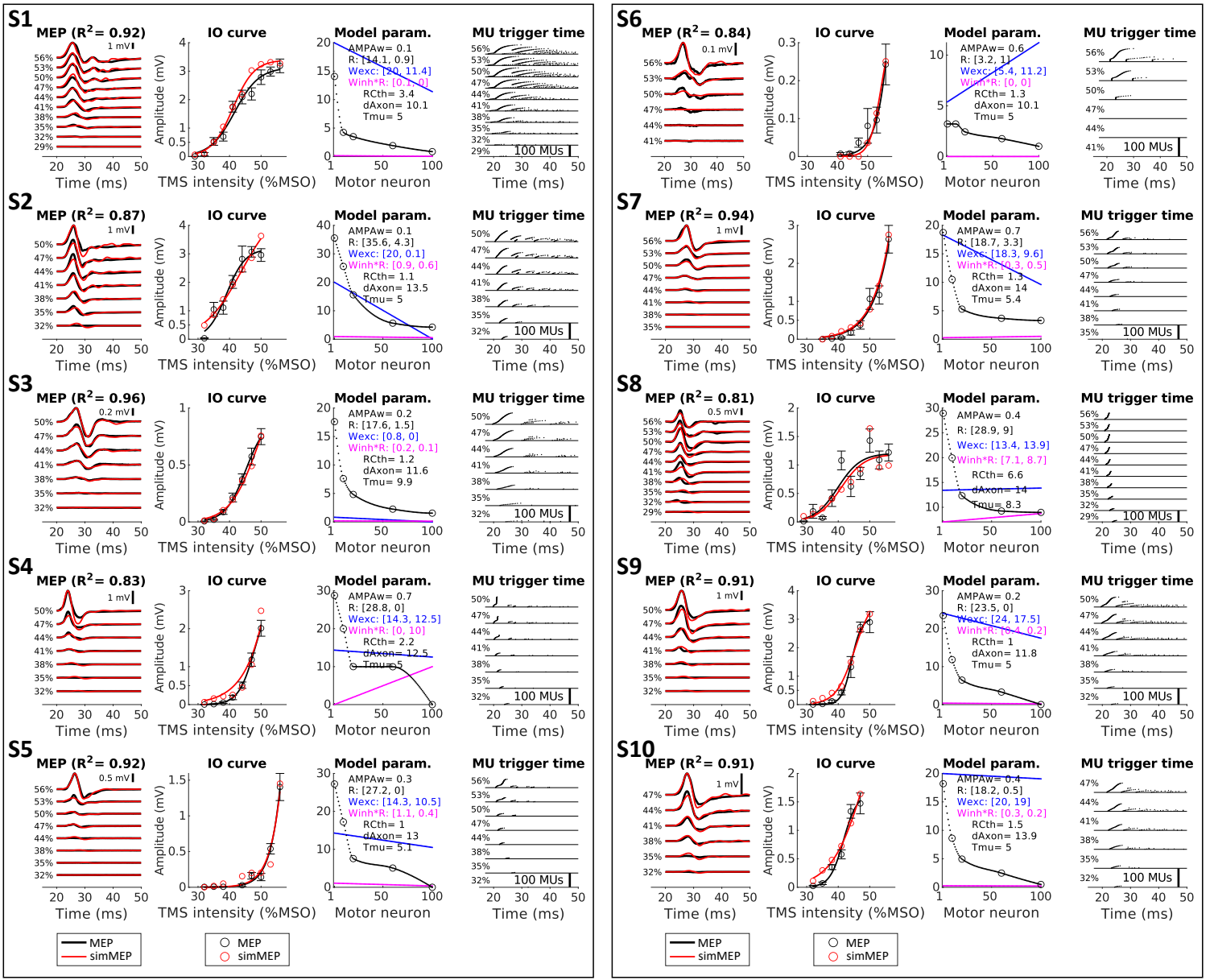
S1
MEP (R^2= 0.92)
1 mV
IO curve
Amplitude (mV)
Model param.
AMPAw= 0.1
R: [14.1, 0.9]
Wexc: [20, 11.4]
Winh*R: [0.1, 0]
RCth= 3.4
dAxon= 10.1
Tmu= 5
MU trigger time
100 MUs
Time (ms)
TMS intensity (%MSO)
Motor neuron
S2
MEP (R^2= 0.87)
1 mV
IO curve
Model param.
AMPAw= 0.1
R: [35.6, 4.3]
Wexc: [20, 0.1]
Winh*R: [0.9, 0.6]
RCth= 1.1
dAxon= 13.5
Tmu= 5
MU trigger time
100 MUs
S3
MEP (R^2= 0.96)
0.2 mV
IO curve
Model param.
AMPAw= 0.2
R: [17.6, 1.5]
Wexc: [0.8, 0]
Winh*R: [0.2, 0.1]
RCth= 1.2
dAxon= 11.6
Tmu= 9.9
MU trigger time
100 MUs
S4
MEP (R^2= 0.83)
1 mV
IO curve
Model param.
AMPAw= 0.7
R: [28.8, 0]
Wexc: [14.3, 12.5]
Winh*R: [0, 10]
RCth= 2.2
dAxon= 12.5
Tmu= 5
MU trigger time
100 MUs
S5
MEP (R^2= 0.92)
0.5 mV
IO curve
Model param.
AMPAw= 0.3
R: [27.2, 0]
Wexc: [14.3, 10.5]
Winh*R: [1.1, 0.4]
RCth= 1
dAxon= 13
Tmu= 5.1
MU trigger time
100 MUs
MEP
simMEP
S6
MEP (R^2= 0.84)
0.1 mV
IO curve
Model param.
AMPAw= 0.6
R: [3.2, 1]
Wexc: [5.4, 11.2]
Winh*R: [0, 0]
RCth= 1.3
dAxon= 10.1
Tmu= 5
MU trigger time
100 MUs
S7
MEP (R^2= 0.94)
1 mV
IO curve
Model param.
AMPAw= 0.7
R: [18.7, 3.3]
Wexc: [18.3, 9.6]
Winh*R: [0.3, 0.5]
RCth= 1.3
dAxon= 14
Tmu= 5.4
MU trigger time
100 MUs
S8
MEP (R^2= 0.81)
0.5 mV
IO curve
Model param.
AMPAw= 0.4
R: [28.9, 9]
Wexc: [13.4, 13.9]
Winh*R: [7.1, 8.7]
RCth= 6.6
dAxon= 14
Tmu= 8.3
MU trigger time
100 MUs
S9
MEP (R^2= 0.91)
1 mV
IO curve
Model param.
AMPAw= 0.2
R: [23.5, 0]
Wexc: [24, 17.5]
Winh*R: [0.4, 0.2]
RCth= 1
dAxon= 11.8
Tmu= 5
MU trigger time
100 MUs
S10
MEP (R^2= 0.91)
1 mV
IO curve
Model param.
AMPAw= 0.4
R: [18.2, 0.5]
Wexc: [20, 19]
Winh*R: [0.3, 0.2]
RCth= 1.5
dAxon= 13.9
Tmu= 5
MU trigger time
100 MUs
MEP
simMEP