

Results for Cell Type #1

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type1

Beta = 1.9576, x0 value = 5.1107 ,alpha1 = 0.14157 ,alpha2 = 3.0746

R values at each time stamp

0.7211
0.7786
0.6184

Square error

37.0355

Results for Cell Type #2

Local minimum found that satisfies the constraints.

Optimization completed because the objective function is non-decreasing in feasible directions, to within the default value of the optimality tolerance, and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type2

Beta = 1.7796, x0 value = 4.7823 ,alpha1 = 0.38044 ,alpha2 = -0.65197

R values at each time stamp

0.7082
0.7569
0.5806

Square error

39.3590

Results for Cell Type #3

Local minimum found that satisfies the constraints.

Optimization completed because the objective function is non-decreasing in feasible directions, to within the default value of the optimality tolerance, and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type3

Beta = 2.0893, x0 value = 5.2753 ,alpha1 = 0.41766 ,alpha2 = -4.1015

R values at each time stamp

0.7273
0.7651
0.5824

Square error
38.7101

Results for Cell Type #4

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type4

Beta = 2.9816, x0 value = 7.0578 ,alpha1 = 0.17204 ,alpha2 = 2.1615

R values at each time stamp

0.7687
0.7485
0.5786

Square error
38.2280

Results for Cell Type #5

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type5

Beta = 2.5332, x0 value = 5.5269 ,alpha1 = 0.19965 ,alpha2 = 5

R values at each time stamp

0.7483
0.7561

0.6077

Square error
37.1763

Results for Cell Type #6

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type6

Beta = 1.8335, x0 value = 4.784 ,alpha1 = 0.41652 ,alpha2 = -1.0506

R values at each time stamp
0.7122
0.7722
0.5907

Square error
38.6286

Results for Cell Type #7

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type7

Beta = 1.9481, x0 value = 5.0983 ,alpha1 = 0.38306 ,alpha2 = -0.71216

R values at each time stamp
0.7194
0.7601
0.5778

Square error
39.2103

Results for Cell Type #8

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type8

Beta = 1.8769, x0 value = 4.9284 ,alpha1 = 0.30416 ,alpha2 = 0.8051

R values at each time stamp

0.7145
0.7611
0.5782

Square error

39.3017

Results for Cell Type #9

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type9

Beta = 2.935, x0 value = 7.5587 ,alpha1 = 0.15452 ,alpha2 = 5

R values at each time stamp

0.7777
0.7617
0.6796

Square error

33.8282

Results for Cell Type #10

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type10

Beta = 1.6441, x0 value = 4.5593 ,alpha1 = 0.34674 ,alpha2 = 1.1695

R values at each time stamp

0.6991
0.7603
0.5915

Square error

39.0426

Results for Cell Type #11

Local minimum found that satisfies the constraints.

Optimization completed because the objective function is non-decreasing in feasible directions, to within the default value of the optimality tolerance, and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type11

Beta = 1.6269, x0 value = 4.5844 ,alpha1 = 0.32327 ,alpha2 = 2.8499

R values at each time stamp

0.6996
0.7593
0.6231

Square error

37.5616

Results for Cell Type #12

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type12

Beta = 1.8678, x0 value = 5.0508 ,alpha1 = 0.34797 ,alpha2 = 0.11363

R values at each time stamp

0.7149
0.7566
0.5783

Square error
39.3941

Results for Cell Type #13

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type13

Beta = 3.0092, x0 value = 5.9895 ,alpha1 = 0.10358 ,alpha2 = 4.9997

R values at each time stamp
0.7625
0.7569
0.5887

Square error
37.4625

Results for Cell Type #14

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type14

Beta = 2.9396, x0 value = 5.1393 ,alpha1 = 0.17437 ,alpha2 = 5

R values at each time stamp
0.7570
0.7712
0.6140

Square error
35.9766

Results for Cell Type #15

Local minimum found that satisfies the constraints.

Optimization completed because the objective function is non-decreasing in feasible directions, to within the default value of the optimality tolerance,

and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type15

Beta = 1.7688, x0 value = 4.8857 ,alpha1 = 0.33001 ,alpha2 = 1.3117

R values at each time stamp

0.7081
0.7574
0.5923

Square error

38.9488

Results for Cell Type #16

Local minimum found that satisfies the constraints.

Optimization completed because the objective function is non-decreasing in feasible directions, to within the default value of the optimality tolerance, and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type16

Beta = 1.88, x0 value = 5.0695 ,alpha1 = 0.32198 ,alpha2 = 0.4754

R values at each time stamp

0.7153
0.7578
0.5823

Square error

39.2383

Results for Cell Type #17

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type17

Beta = 1.9977, x0 value = 5.2592 ,alpha1 = 0.30907 ,alpha2 = 0.55653

R values at each time stamp

0.7233
0.7612
0.5767

Square error

39.1839

Results for Cell Type #18

Local minimum found that satisfies the constraints.

Optimization completed because the objective function is non-decreasing in feasible directions, to within the default value of the optimality tolerance, and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type18

Beta = 2.2517, x0 value = 5.8988 ,alpha1 = 0.47655 ,alpha2 = -2.5803

R values at each time stamp

0.7416
0.7739
0.6388

Square error

35.7408

Results for Cell Type #19

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type19

Beta = 2.0137, x0 value = 5.4877 ,alpha1 = 0.37982 ,alpha2 = -0.82448

R values at each time stamp

0.7259
0.7596
0.5797

Square error

39.1170

Results for Cell Type #20

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type20

Beta = 2.0634, x0 value = 5.6586 ,alpha1 = 0.39967 ,alpha2 = -5

R values at each time stamp

0.7296
0.7535
0.5870

Square error

38.8867

Results for Cell Type #21

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type21

Beta = 1.5728, x0 value = 4.6639 ,alpha1 = 0.28986 ,alpha2 = 2.6228

R values at each time stamp

0.6963
0.7733
0.6404

Square error

36.8684

Results for Cell Type #22

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type22

Beta = 1.8744, x0 value = 5.0436 ,alpha1 = 0.28277 ,alpha2 = 0.93519

R values at each time stamp

0.7155
0.7618
0.5788

Square error
39.2987

Results for Cell Type #23

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than
the default value of the step size tolerance and constraints are
satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type23

Beta = 1.9638, x0 value = 5.1937 ,alpha1 = 0.13838 ,alpha2 = 4.9992

R values at each time stamp

0.7215
0.7674
0.5905

Square error
38.5009

Results for Cell Type #24

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than
the default value of the step size tolerance and constraints are
satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type24

Beta = 1.5682, x0 value = 4.9904 ,alpha1 = 0.91883 ,alpha2 = -2.5223

R values at each time stamp

0.6981
0.7777

0.7032

Square error
34.0647

Results for Cell Type #25

Local minimum possible. Constraints satisfied.

fmincon stopped because the size of the current step is less than the default value of the step size tolerance and constraints are satisfied to within the default value of the constraint tolerance.

<stopping criteria details>

NDMwSwM for cell type25

Beta = 2.0179, x0 value = 5.4226 ,alpha1 = 0.47969 ,alpha2 = -4.9998

R values at each time stamp
0.7253
0.7536
0.5821

Square error
39.0583

ans =

1x2 table

Var1	square_error
[1x25 double]	[1x25 double]

>> close all
>> square_error

square_error =

Columns 1 through 8

37.0355 39.3590 38.7101 38.2280 37.1763 38.6286 39.2103 39.3017

Columns 9 through 16

33.8282 39.0426 37.5616 39.3941 37.4625 35.9766 38.9488 39.2383

Columns 17 through 24

39.1839 35.7408 39.1170 38.8867 36.8684 39.2987 38.5009 34.0647

Column 25

39.0583

```
>> square_error = square_error'
```

```
square_error =
```

```
37.0355  
39.3590  
38.7101  
38.2280  
37.1763  
38.6286  
39.2103  
39.3017  
33.8282  
39.0426  
37.5616  
39.3941  
37.4625  
35.9766  
38.9488  
39.2383  
39.1839  
35.7408  
39.1170  
38.8867  
36.8684  
39.2987  
38.5009  
34.0647  
39.0583
```

```
>>
```