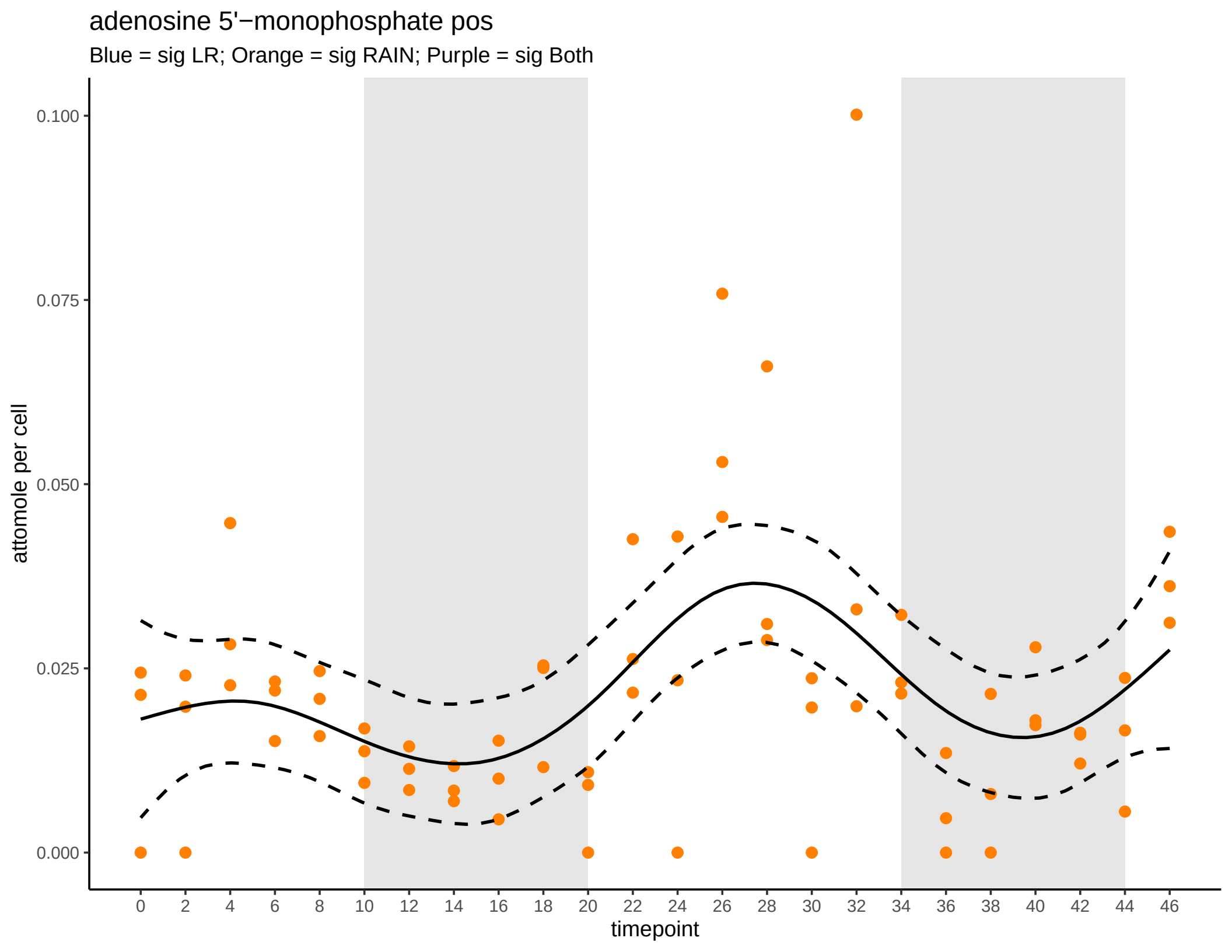
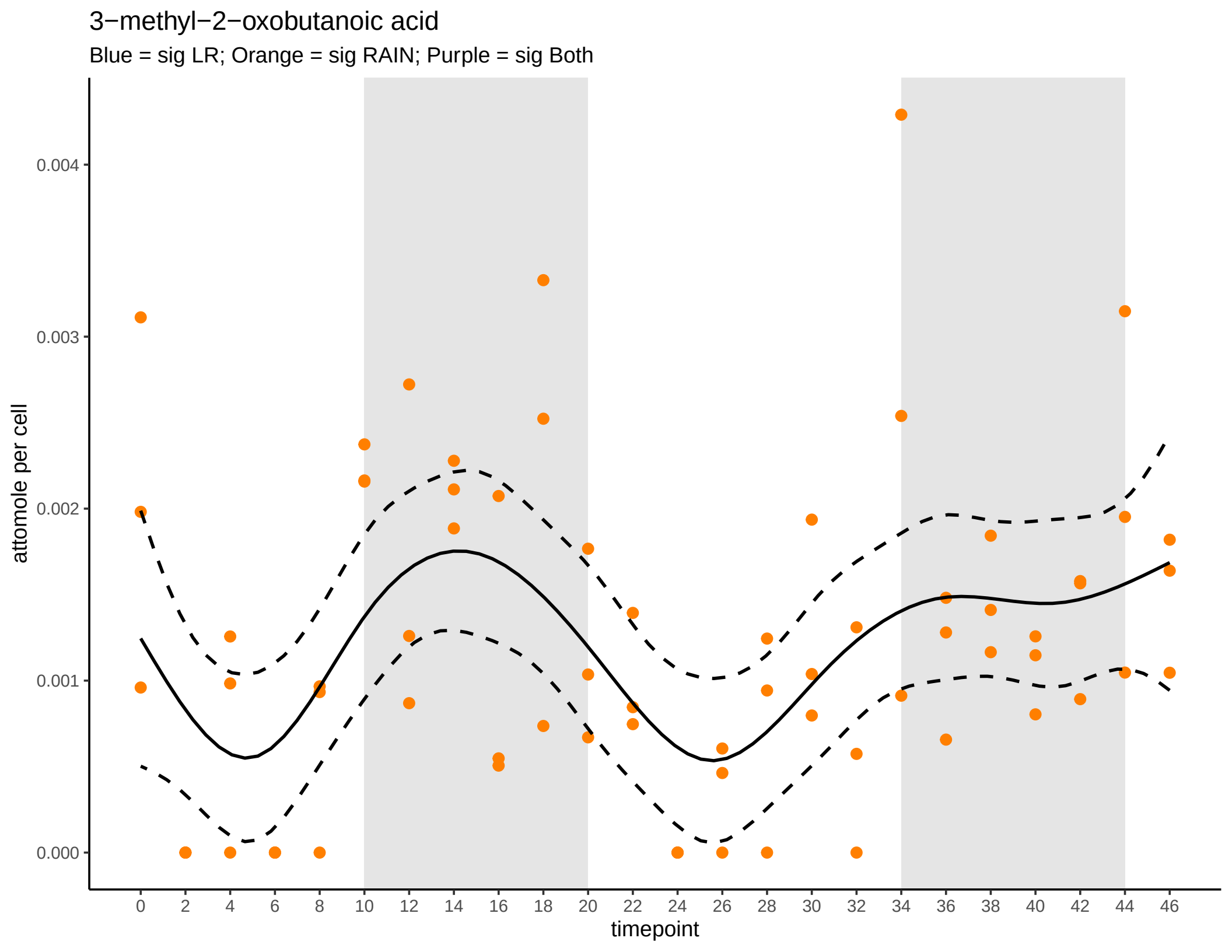
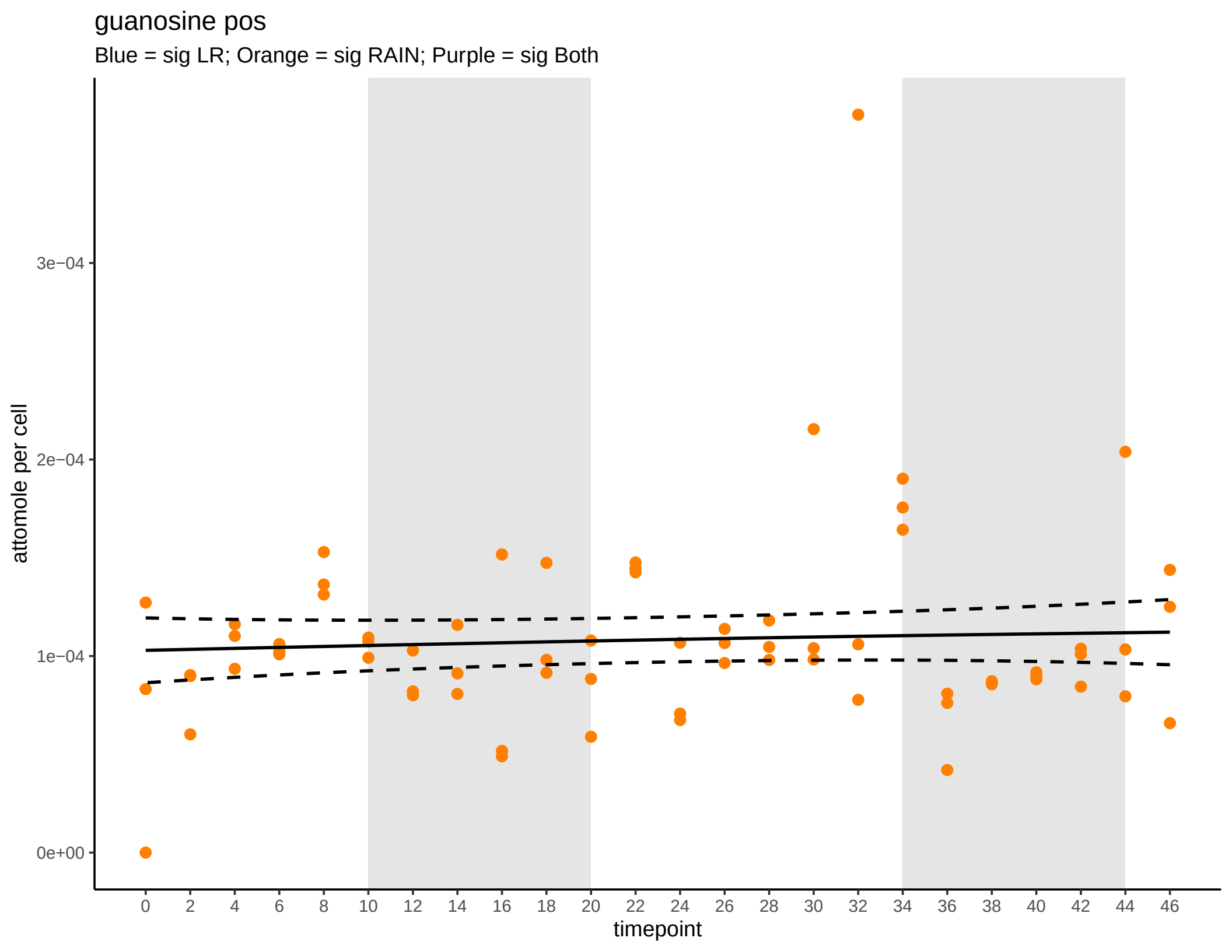
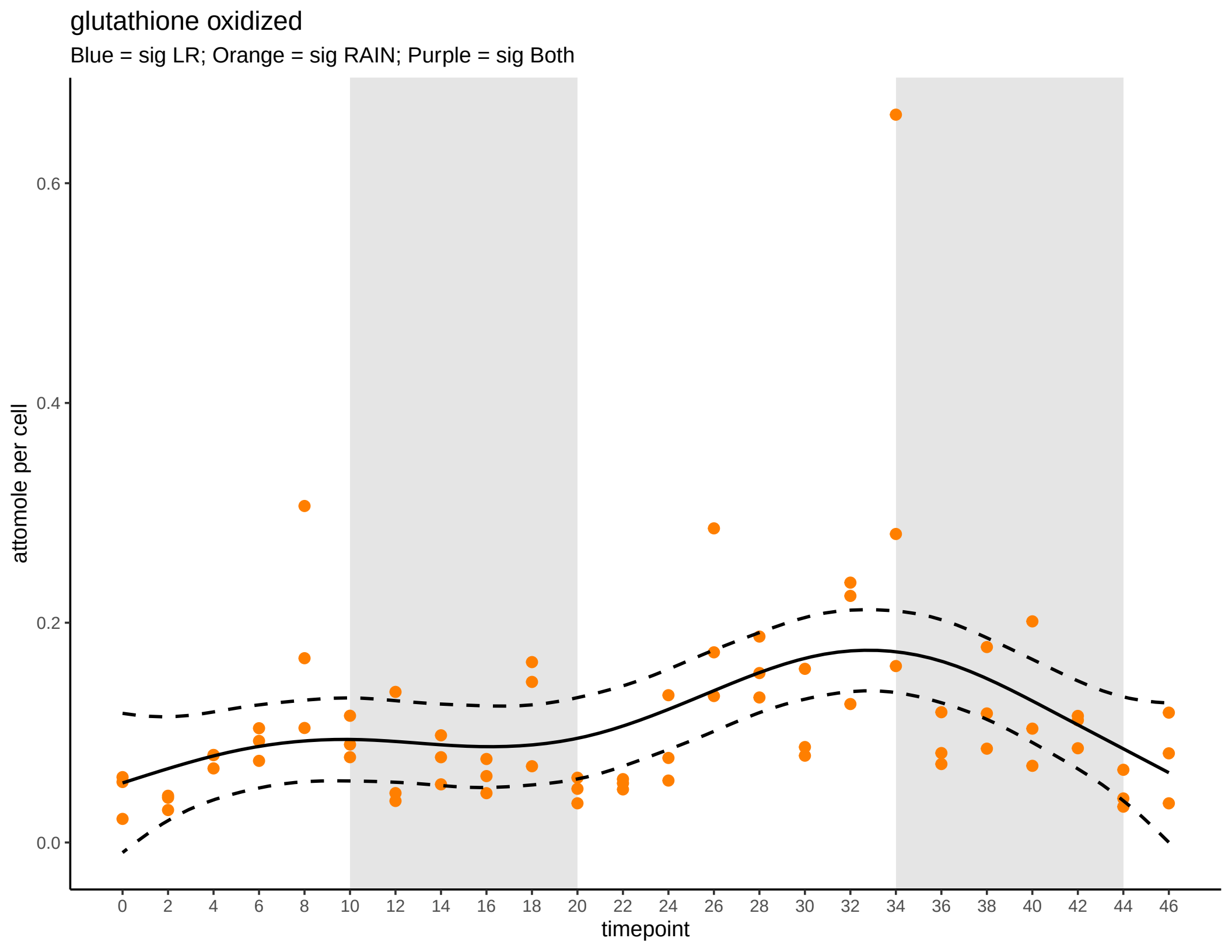
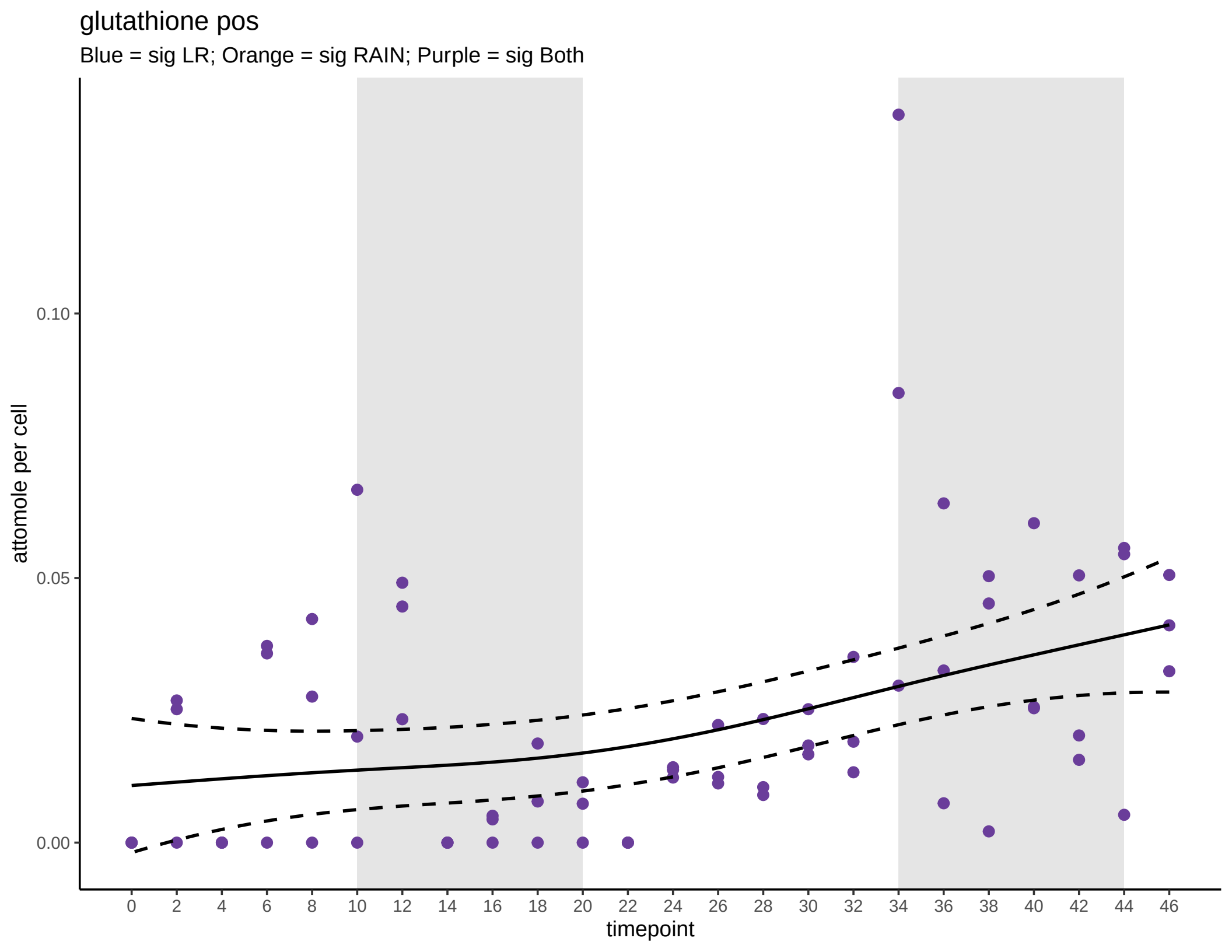
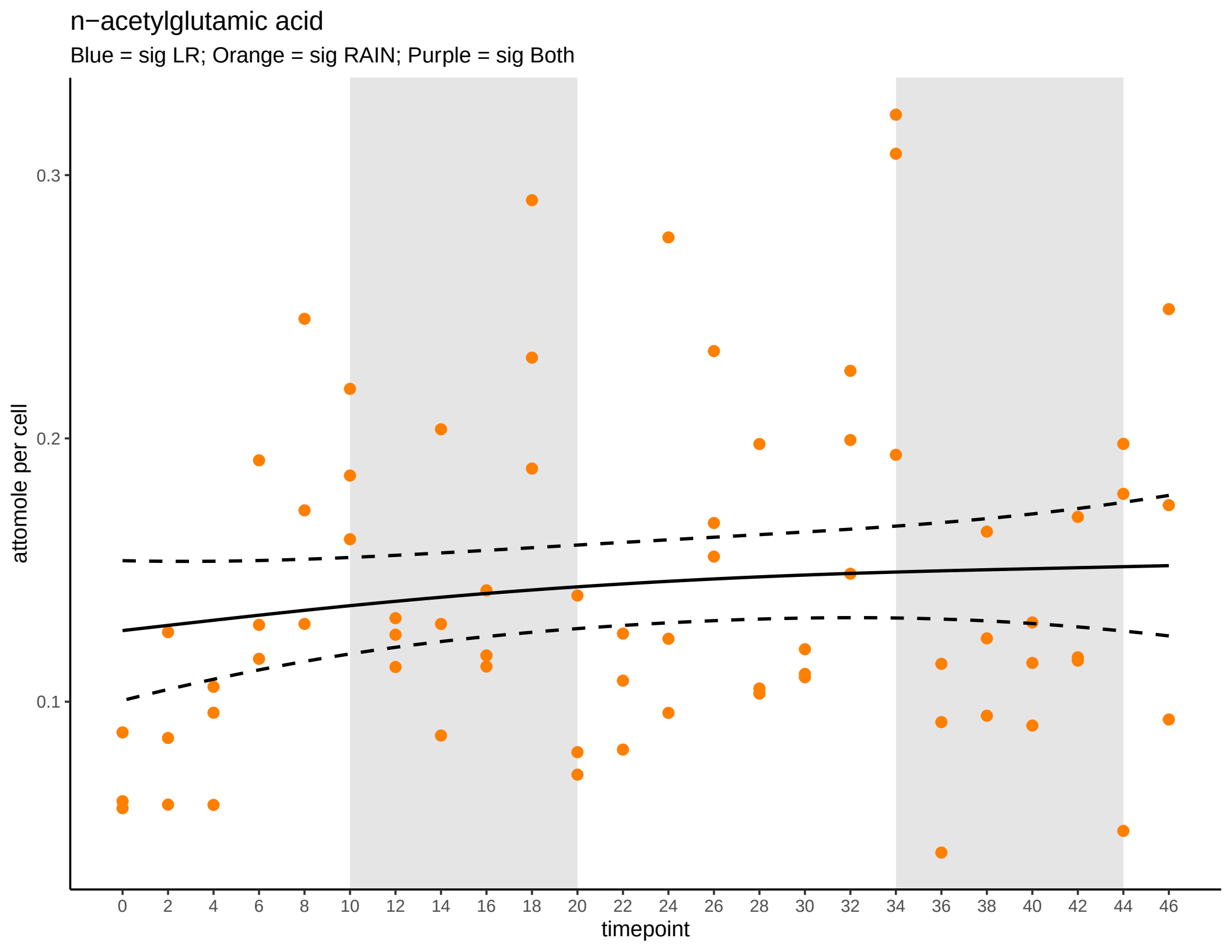

adenosine 5'−monophosphate pos
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.100
0.075
0.050
0.025
0.000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

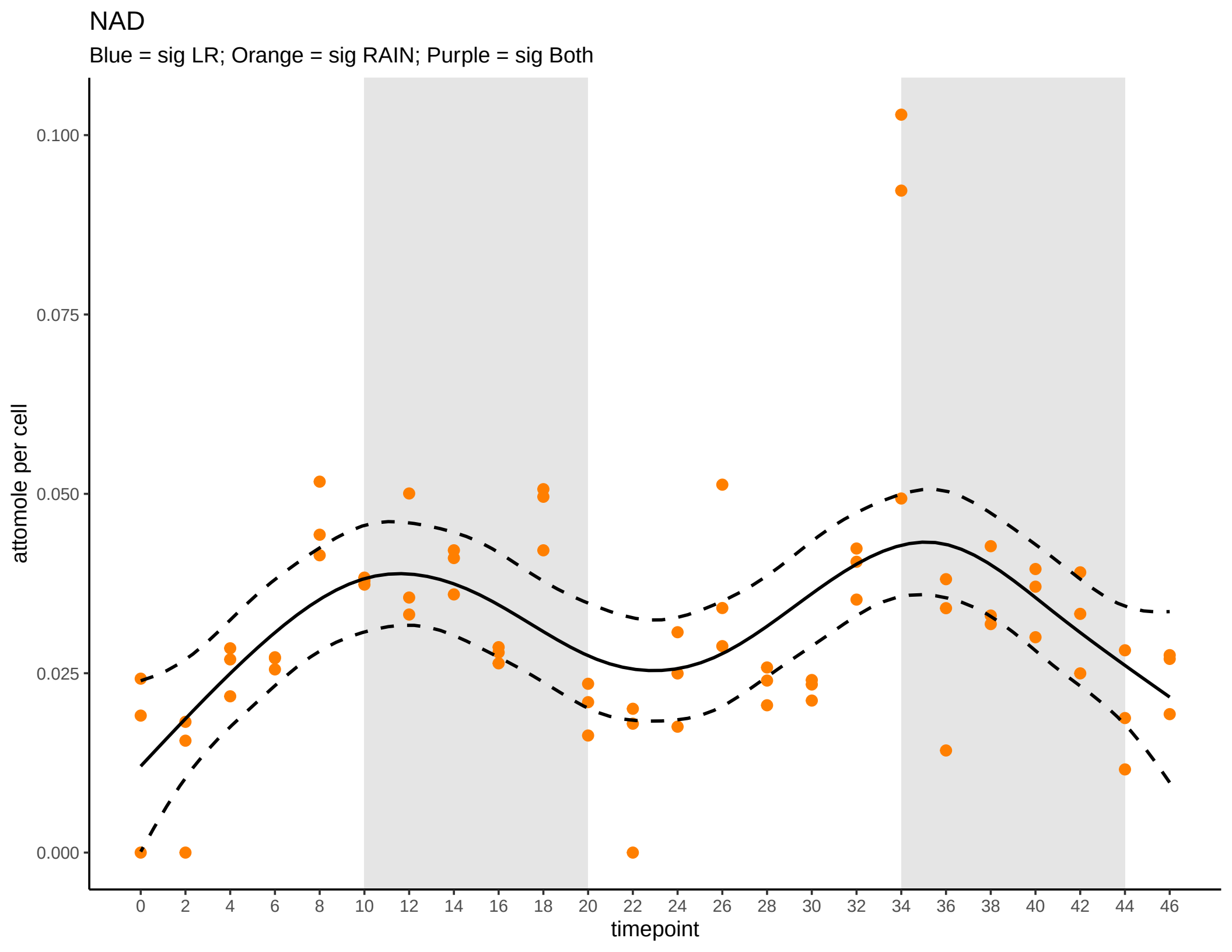

3−methyl−2−oxobutanoic acid
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.004
0.003
0.002
0.001
0.000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

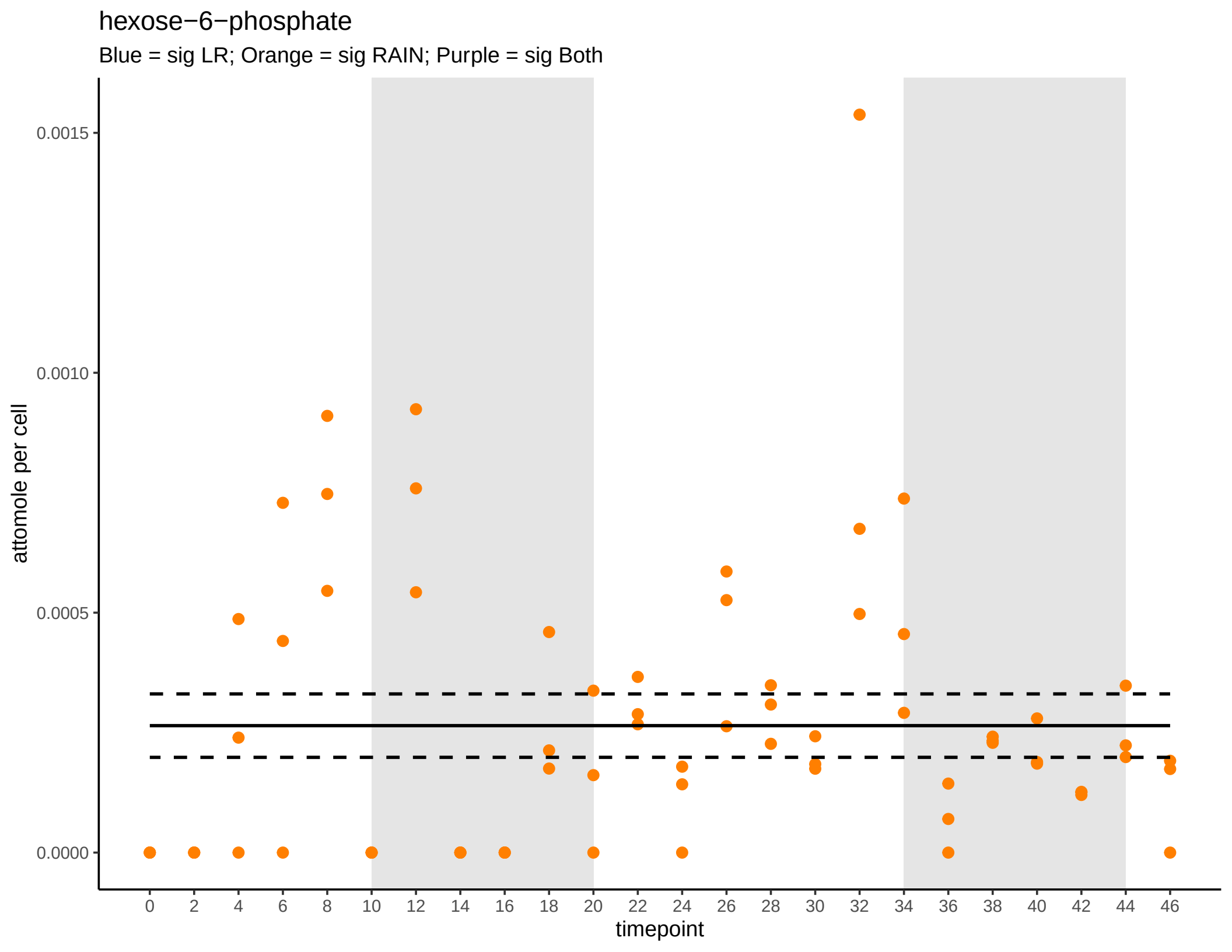

guanosine pos
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
3e−04
2e−04
1e−04
0e+00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

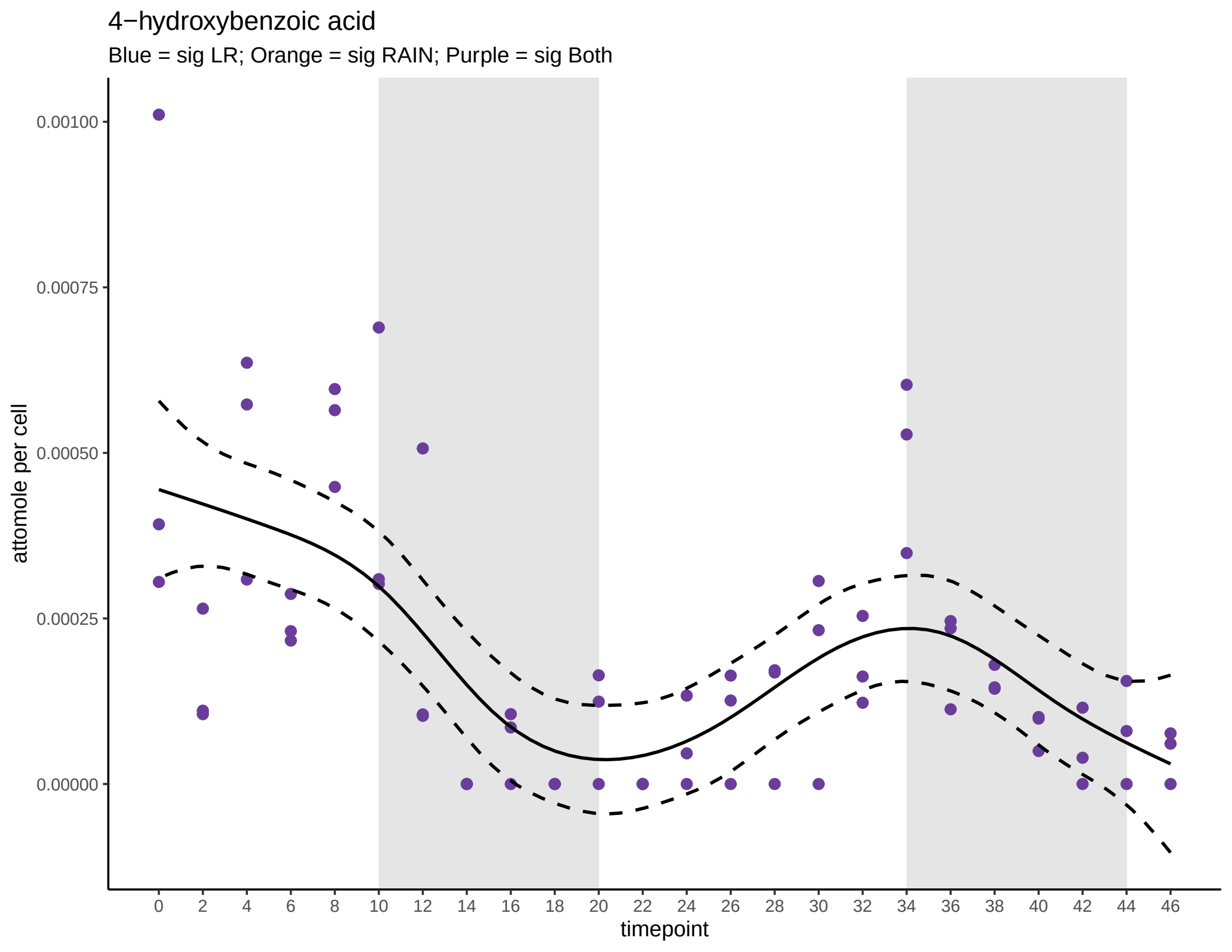

glutathione oxidized
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.0
0.2
0.4
0.6
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

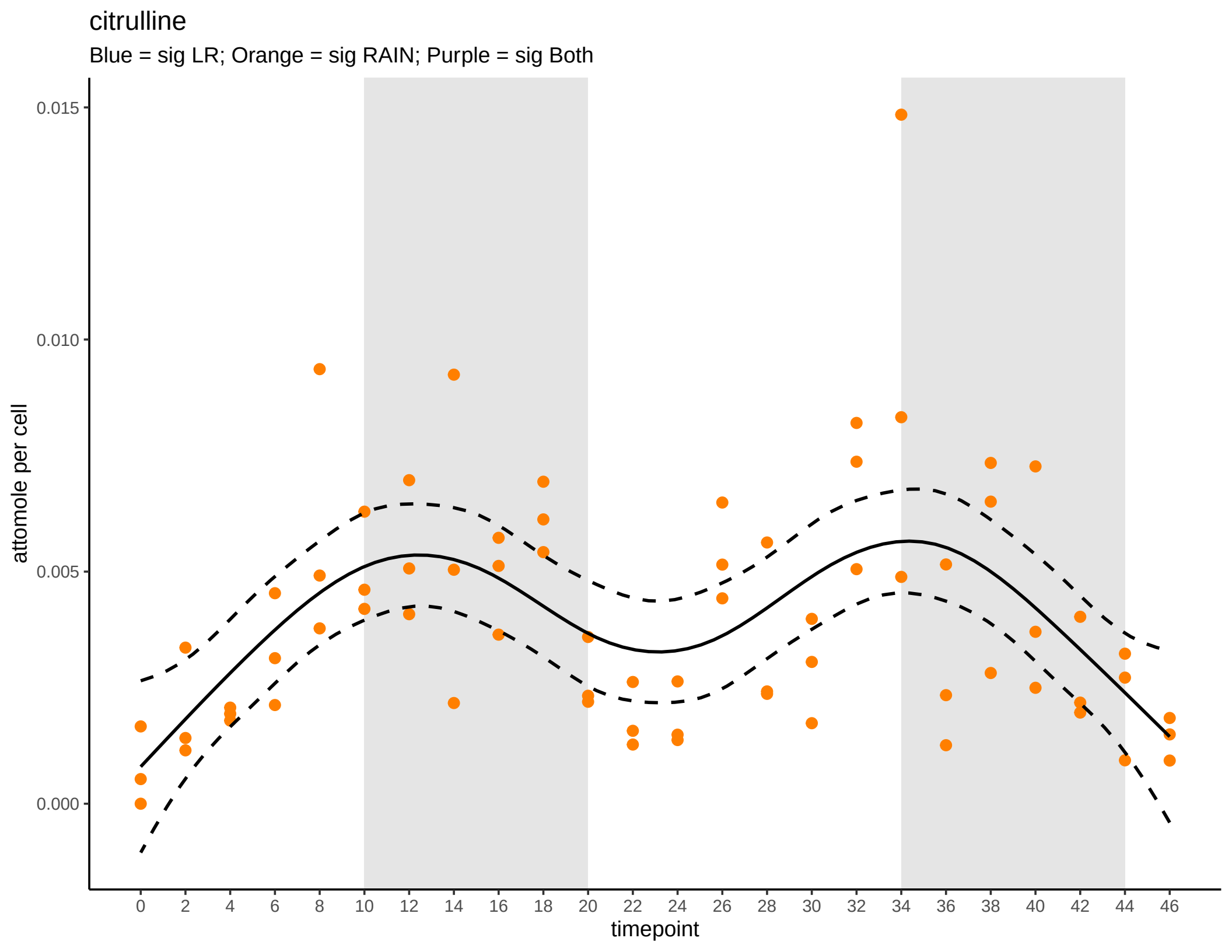

glutathione pos
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.10
0.05
0.00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

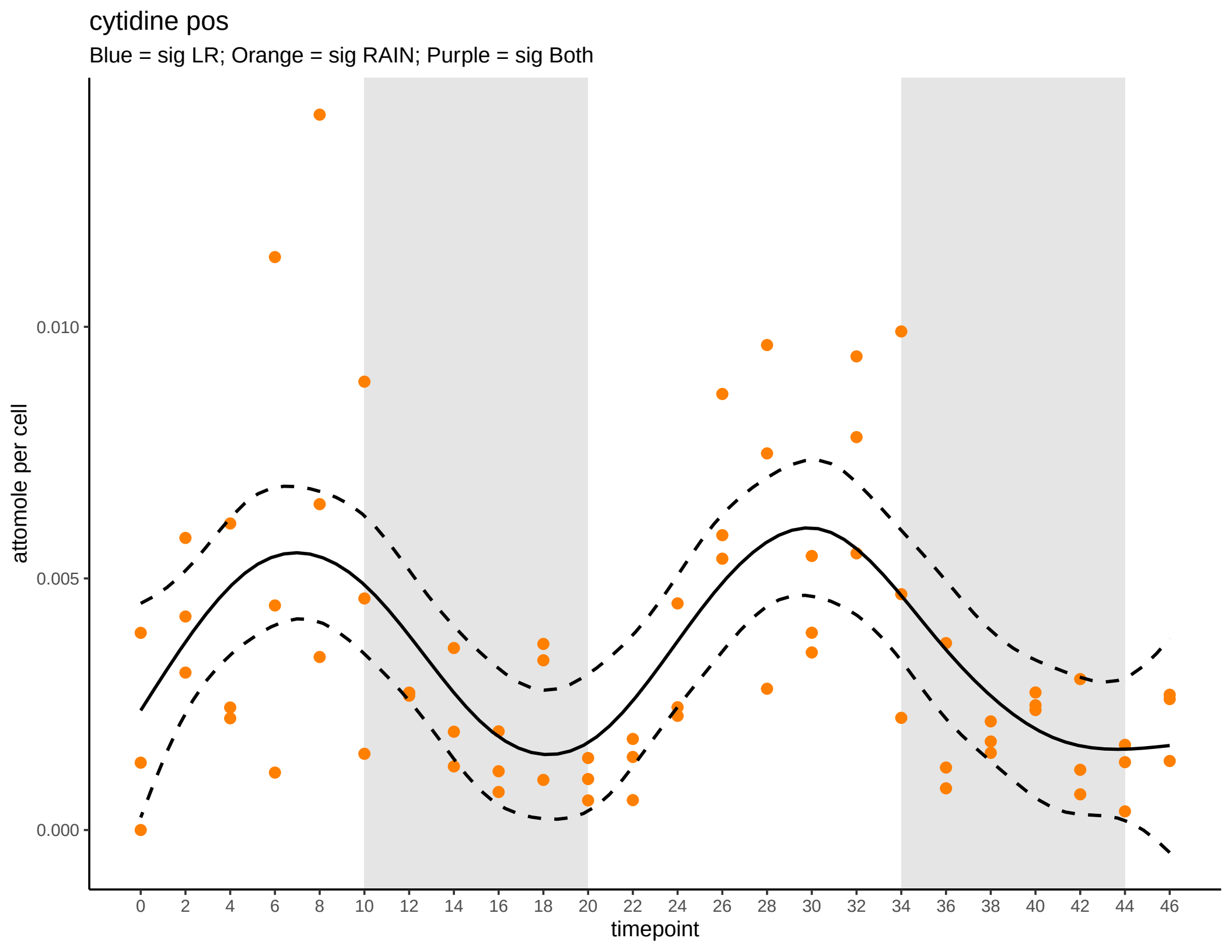

n−acetylglutamic acid
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.3
0.2
0.1
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

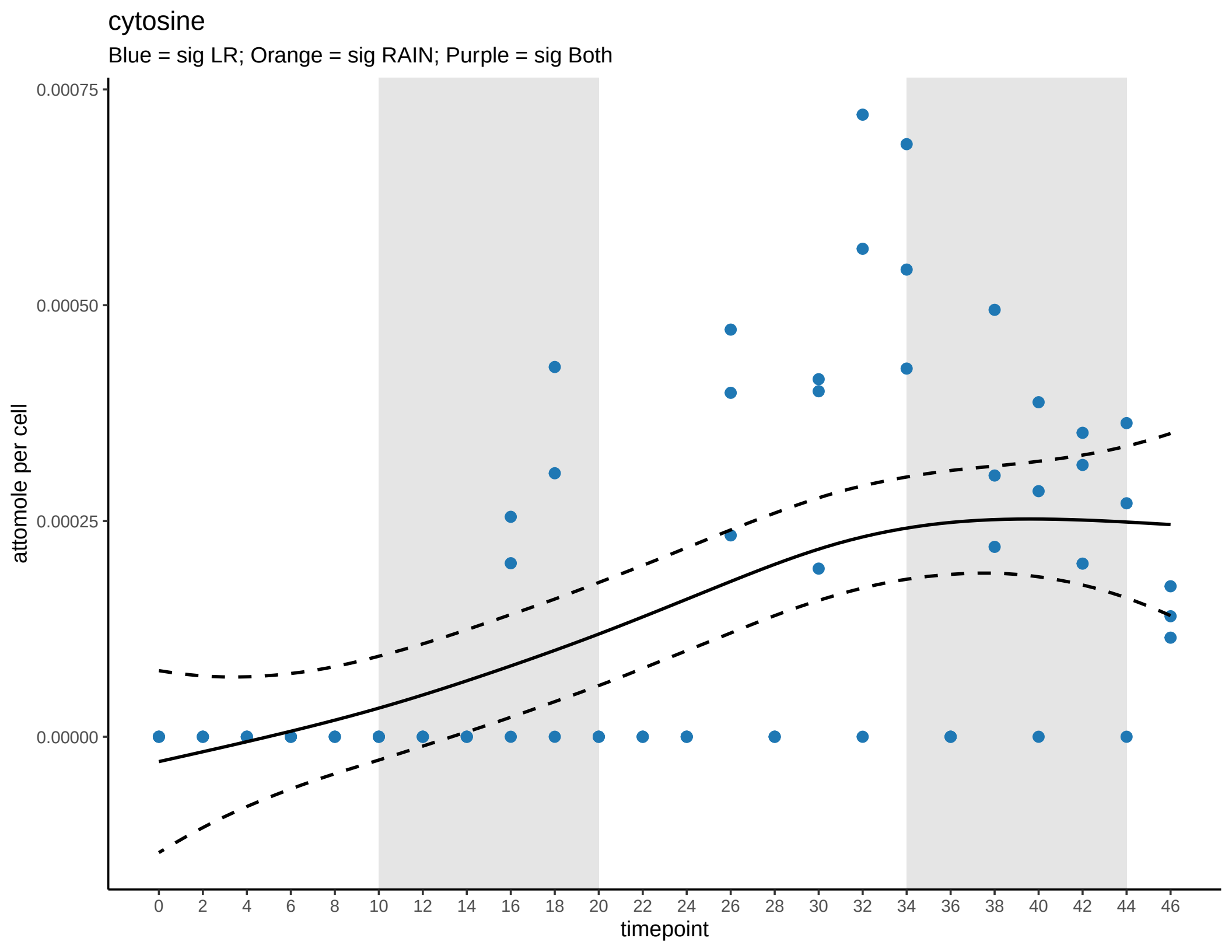

NAD
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.100
0.075
0.050
0.025
0.000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

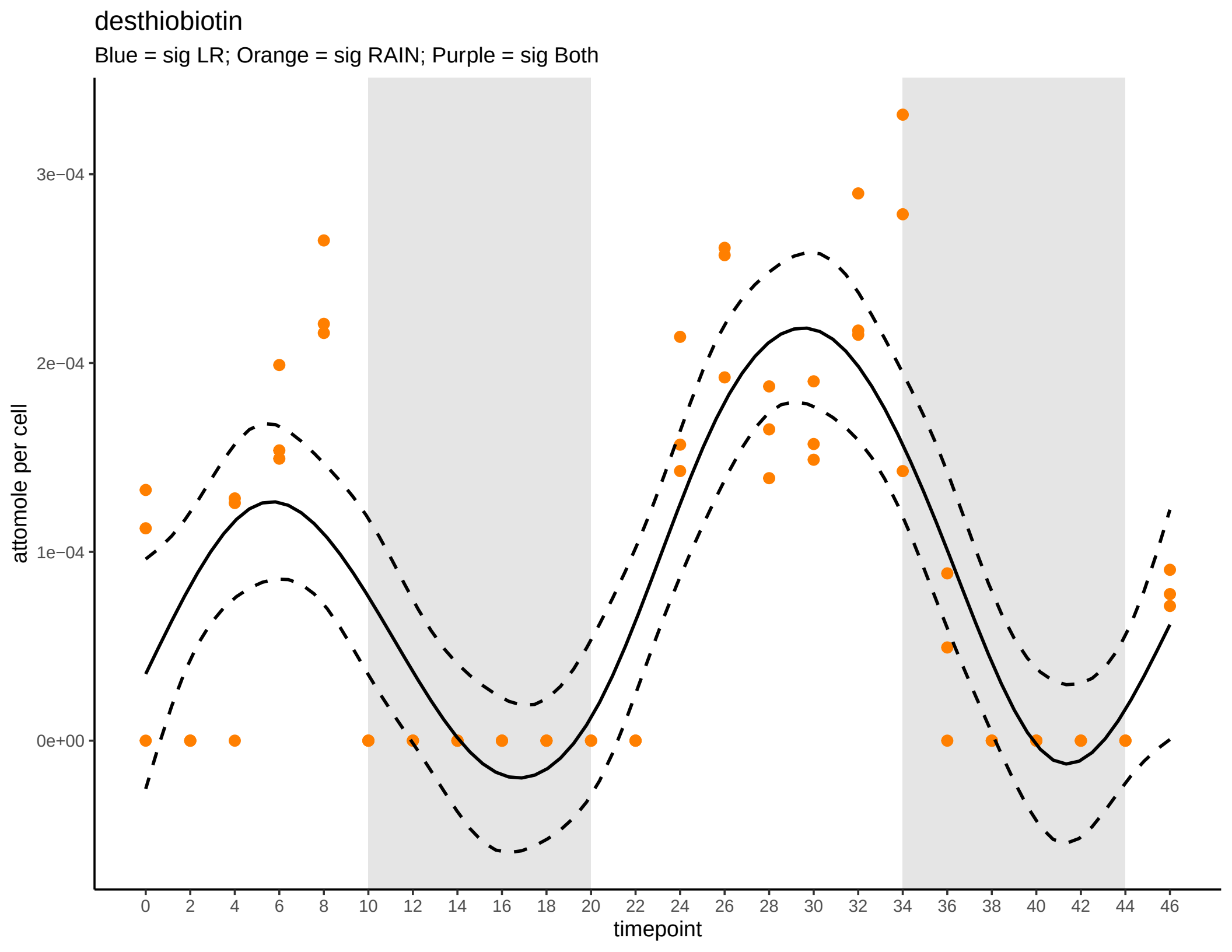

hexose−6−phosphate
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.0015
0.0010
0.0005
0.0000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

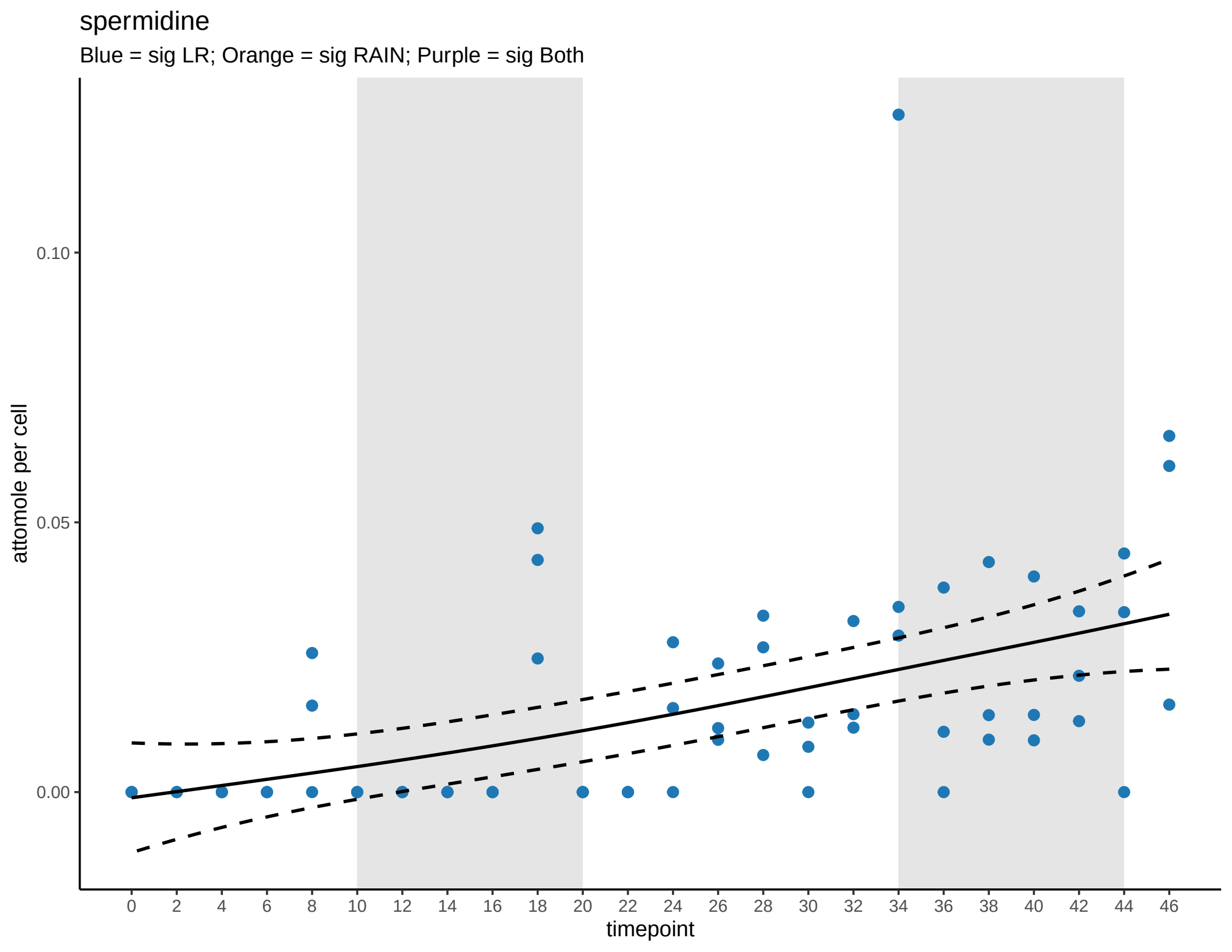

4−hydroxybenzoic acid
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.00100
0.00075
0.00050
0.00025
0.00000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

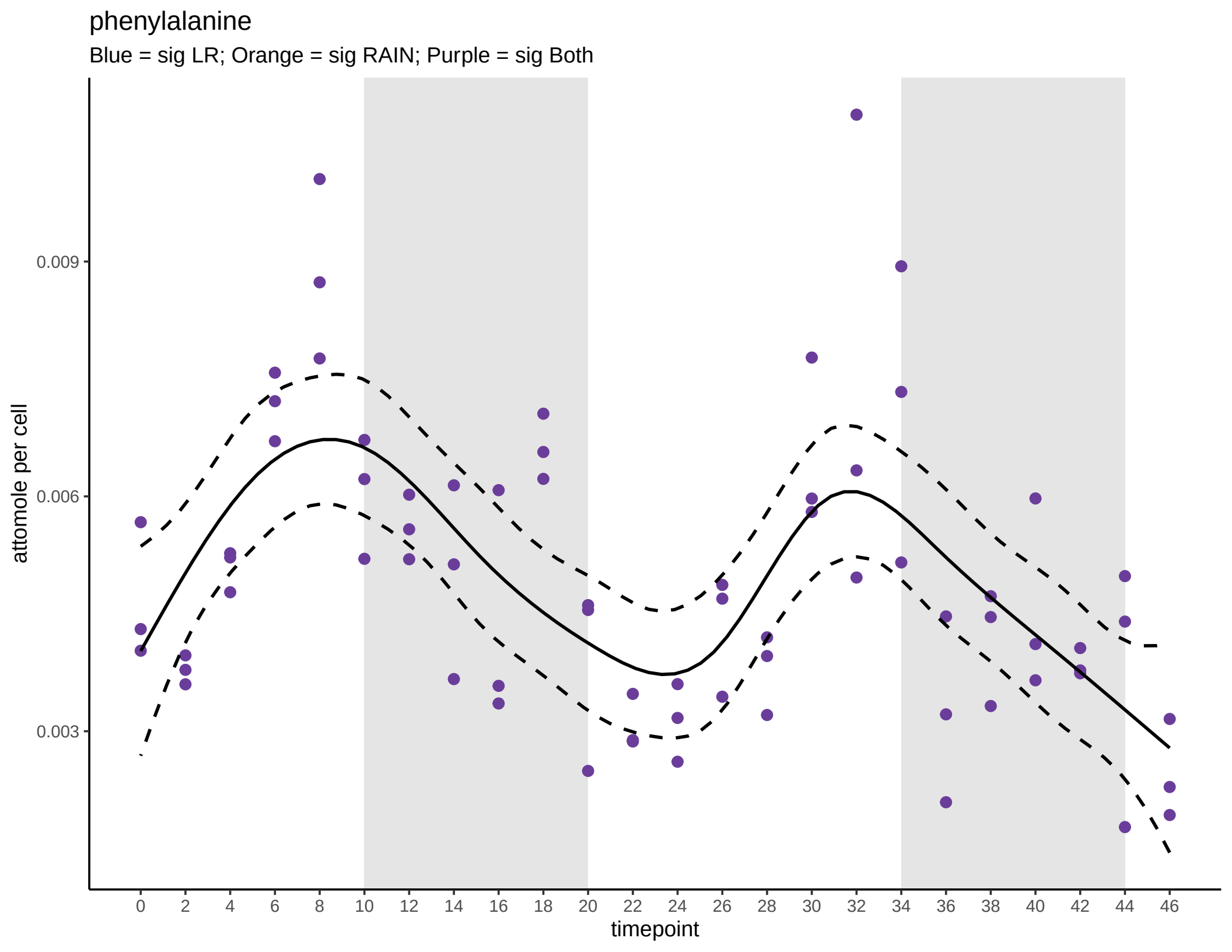

citrulline
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.015
0.010
0.005
0.000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

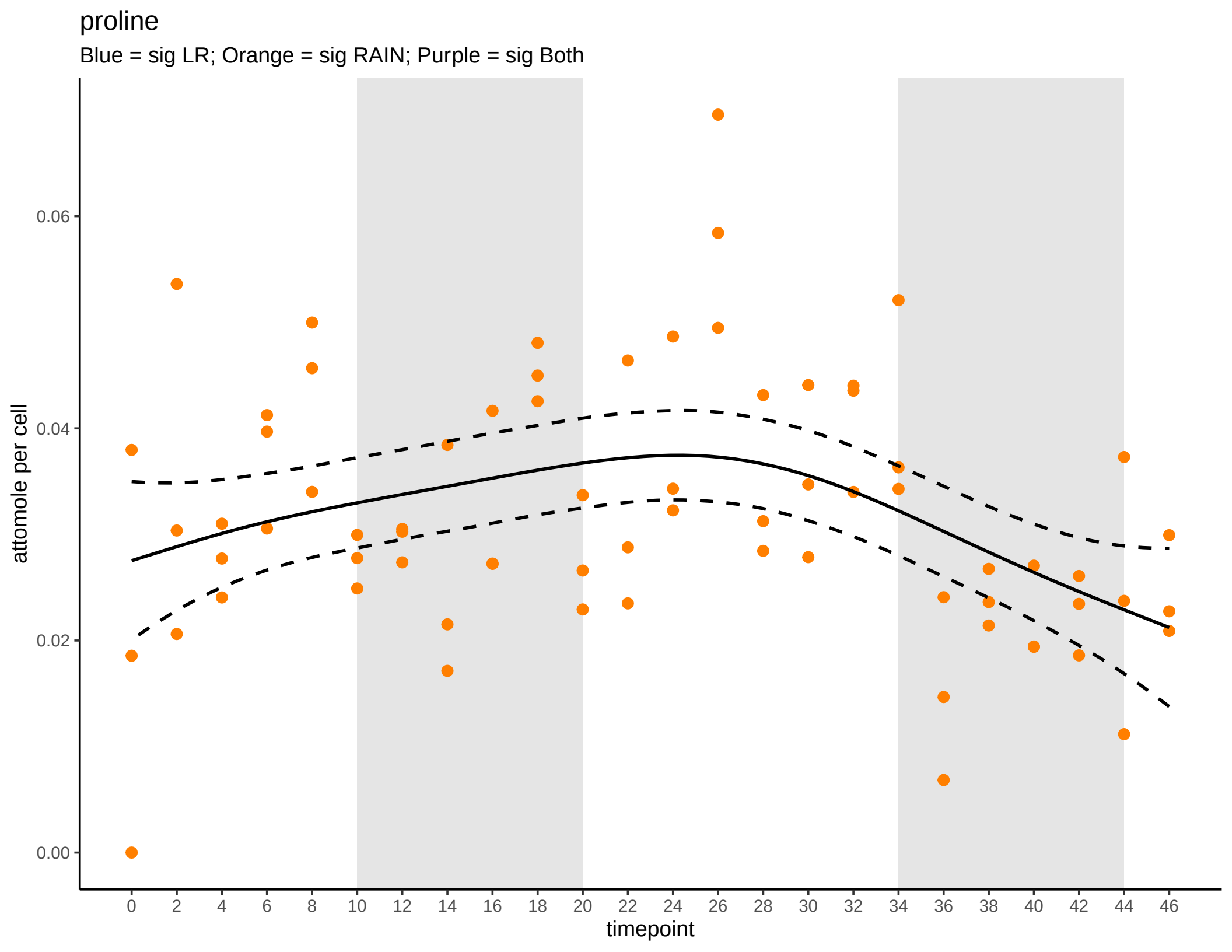

cytidine pos
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.010
0.005
0.000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

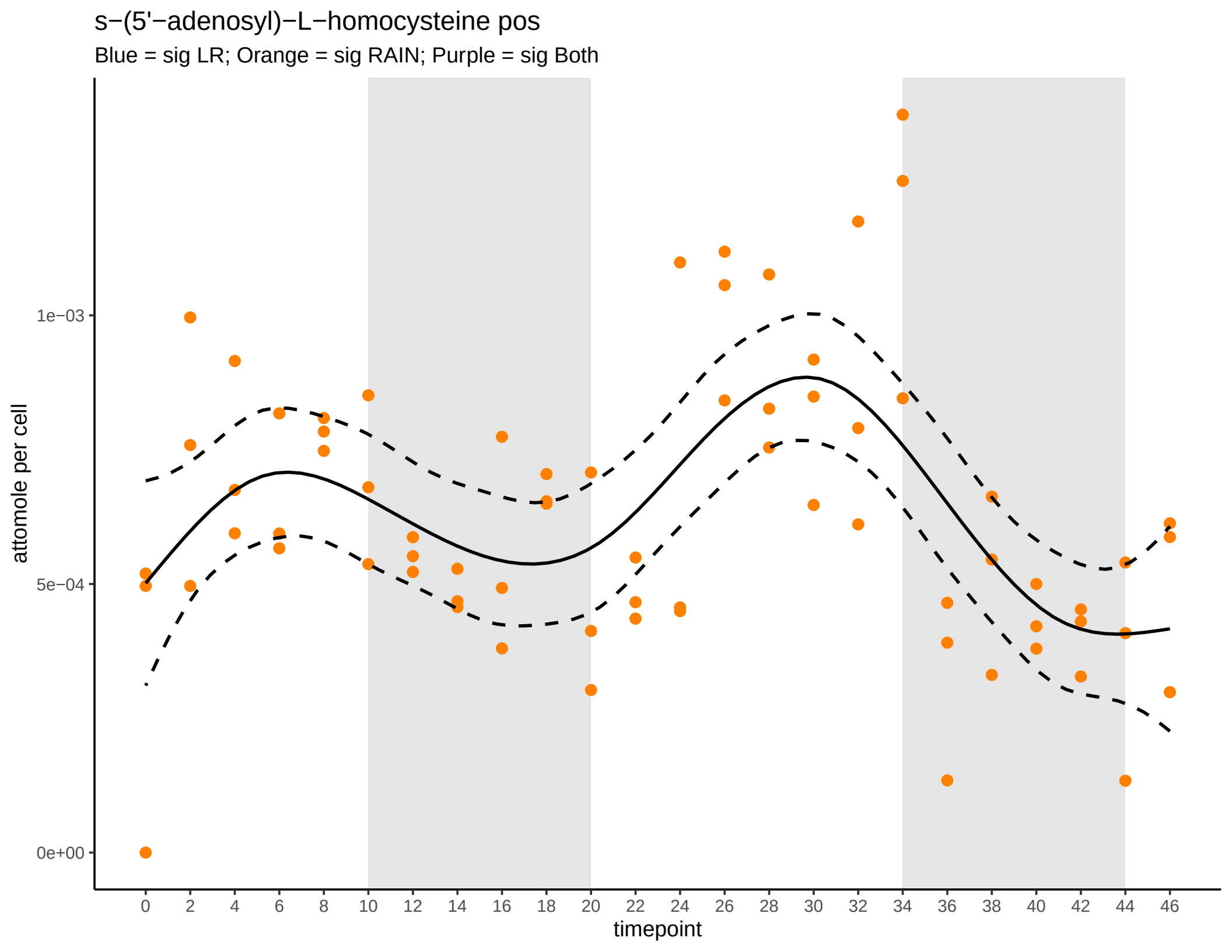

cytosine
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
0.00075
0.00050
0.00025
0.00000
attomole per cell
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

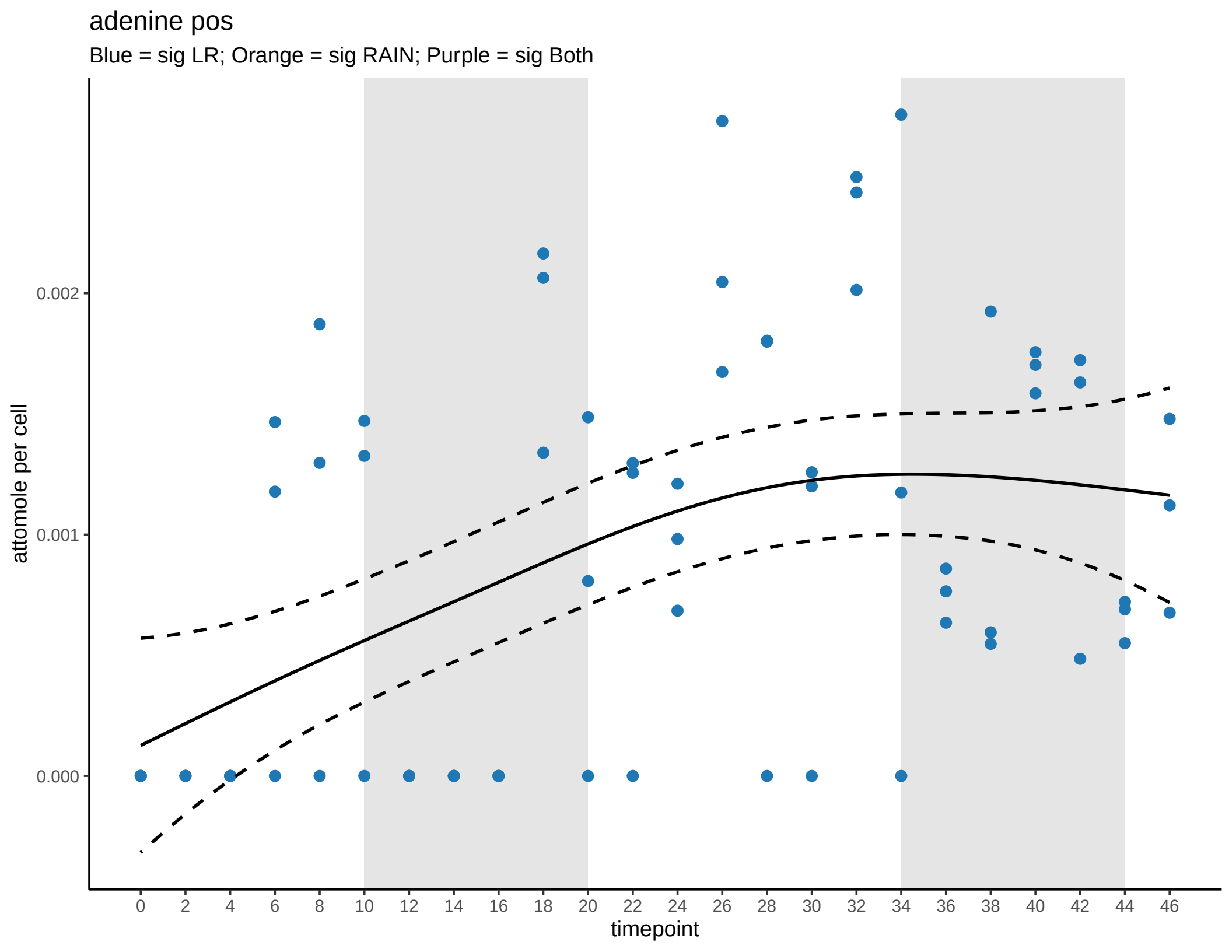

desthiobiotin
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
3e−04
2e−04
1e−04
0e+00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

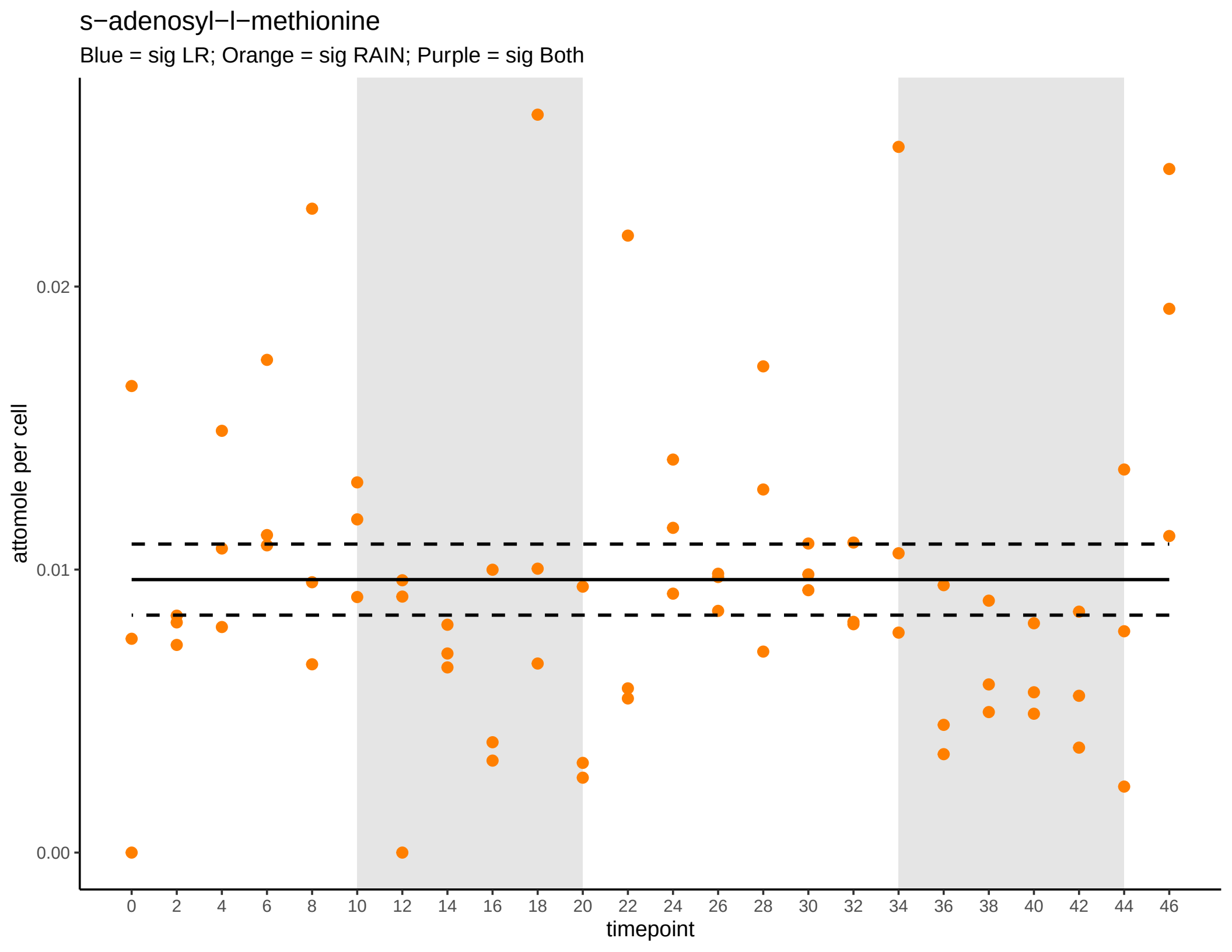

spermidine
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.10
0.05
0.00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

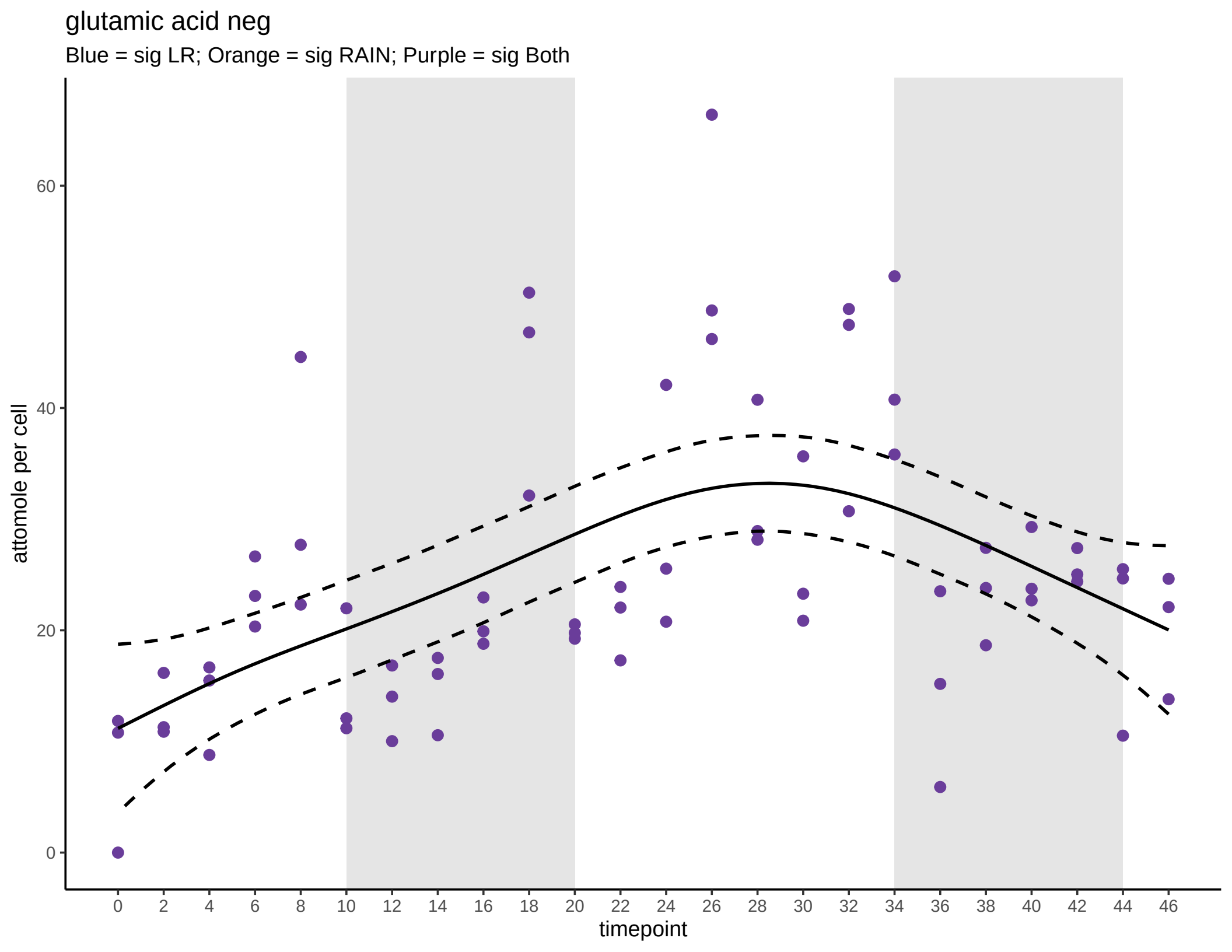

phenylalanine
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.009
0.006
0.003
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

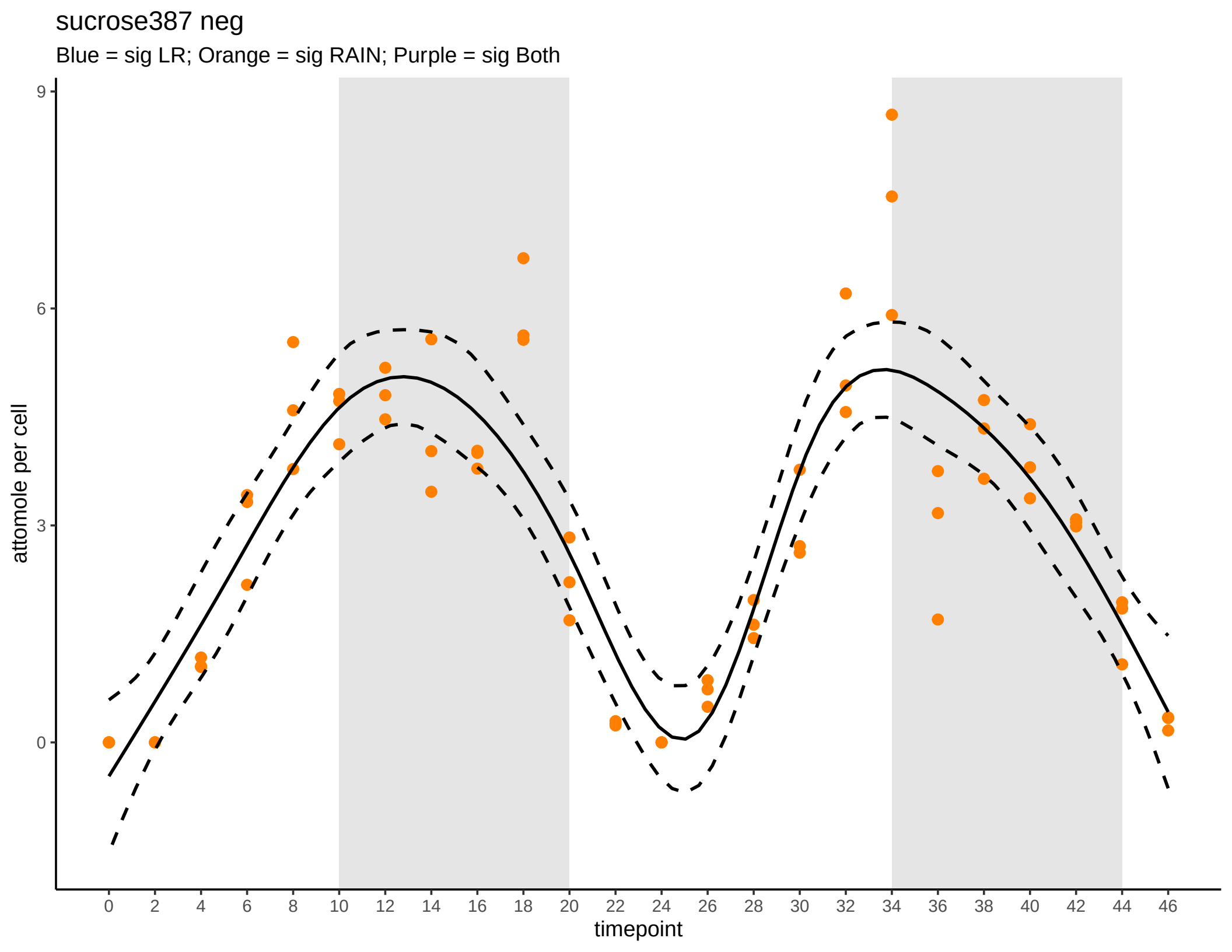

proline
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.00
0.02
0.04
0.06
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

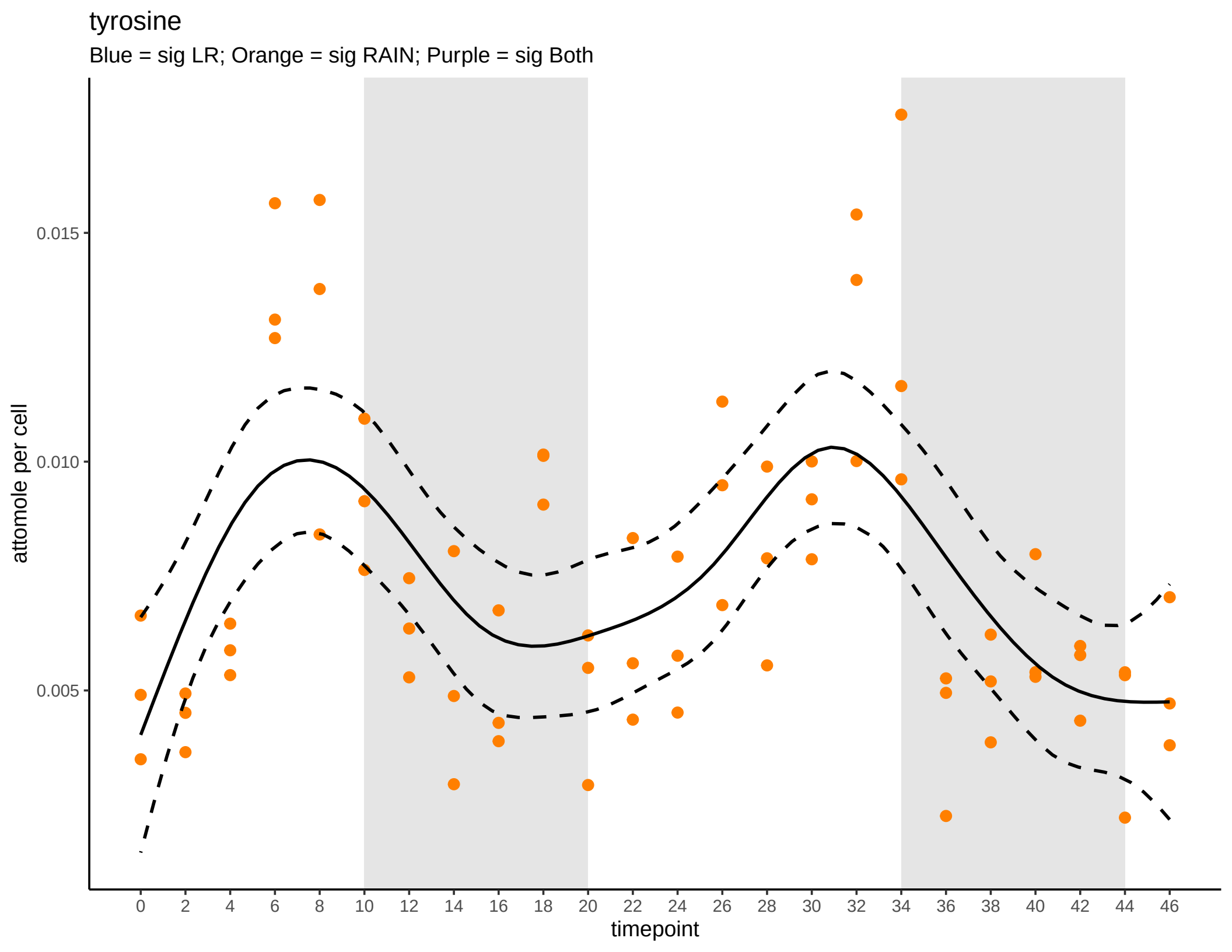

s−(5'−adenosyl)−L−homocysteine pos
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
1e−03
5e−04
0e+00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

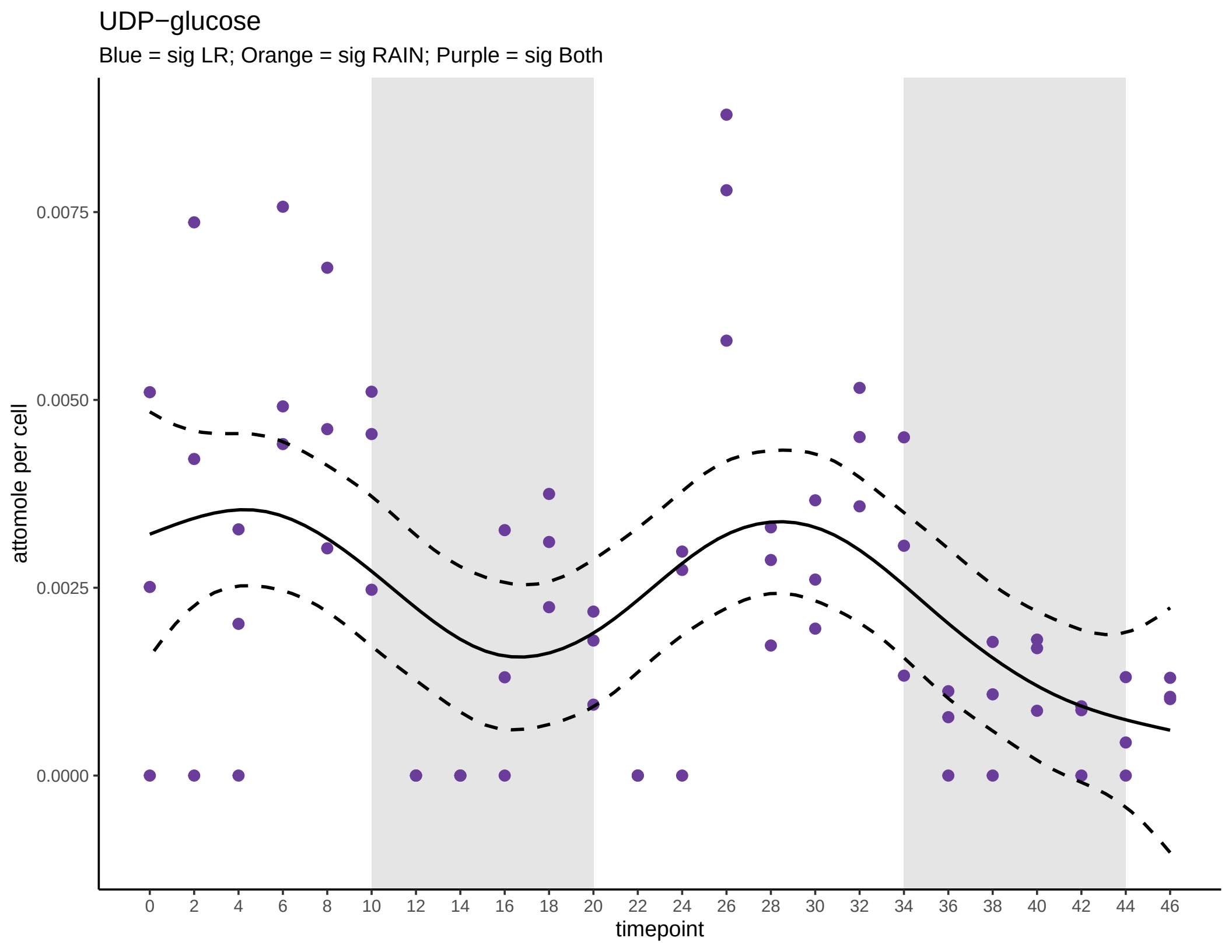

adenine pos
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.002
0.001
0.000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

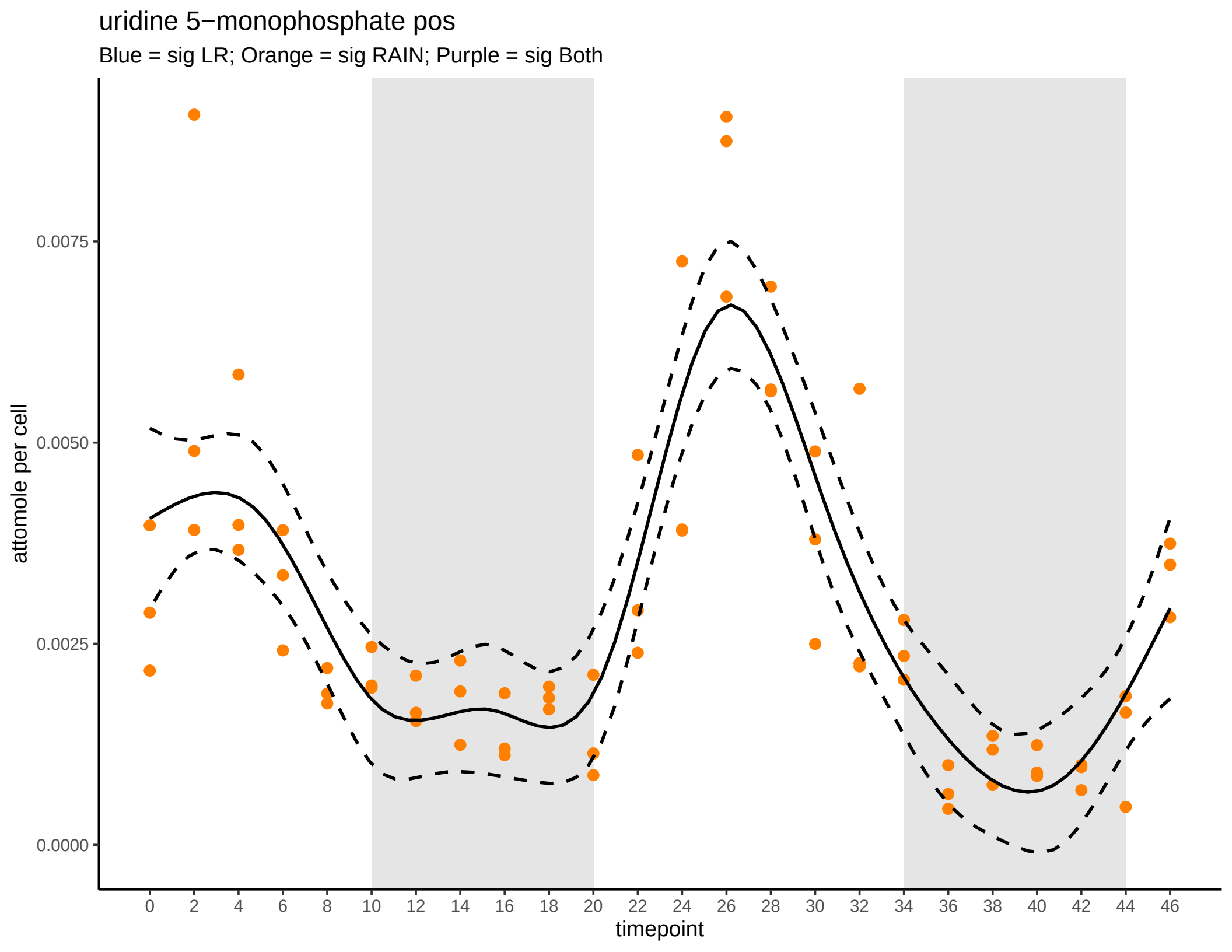

s−adenosyl−l−methionine
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.02
0.01
0.00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

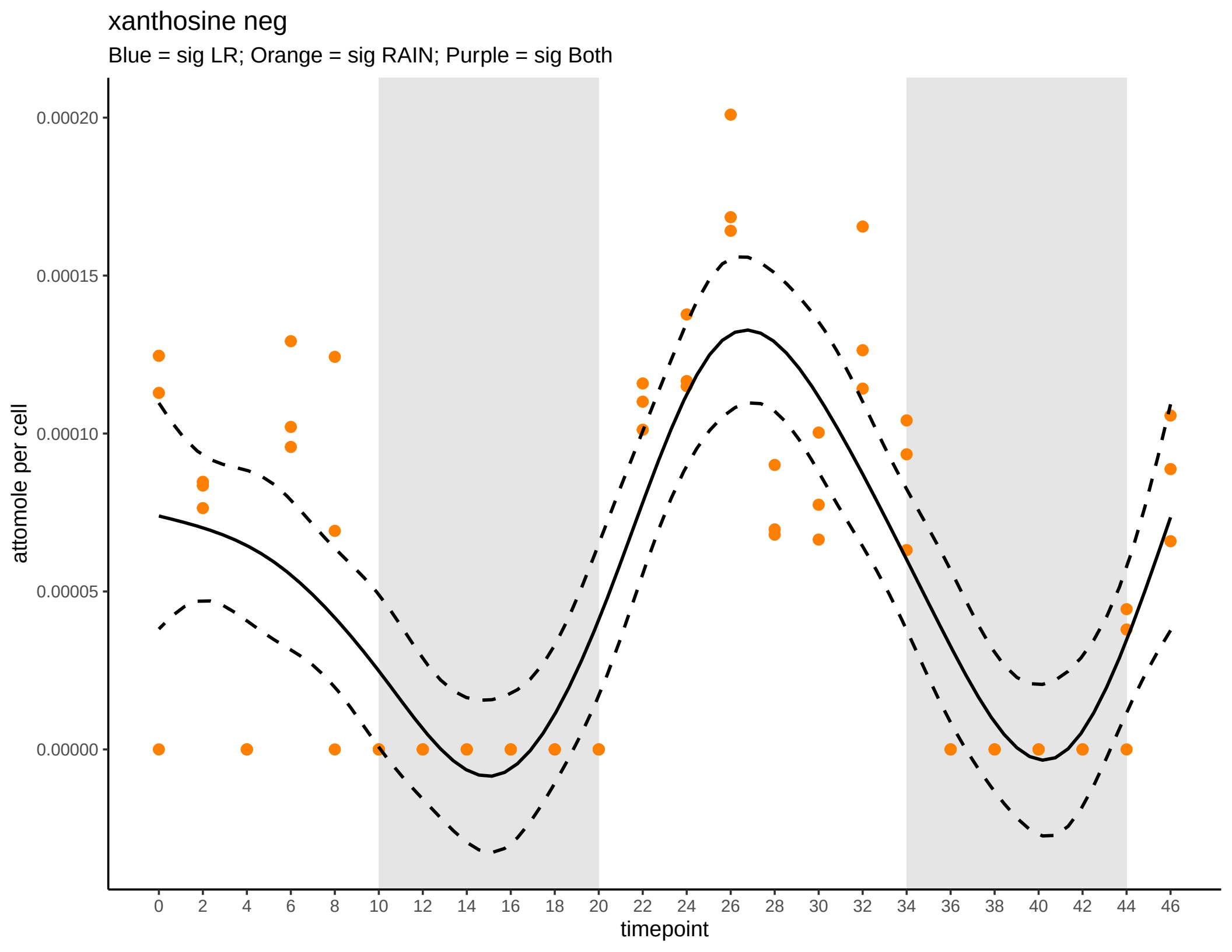

glutamic acid neg
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0
20
40
60
timepoint
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46

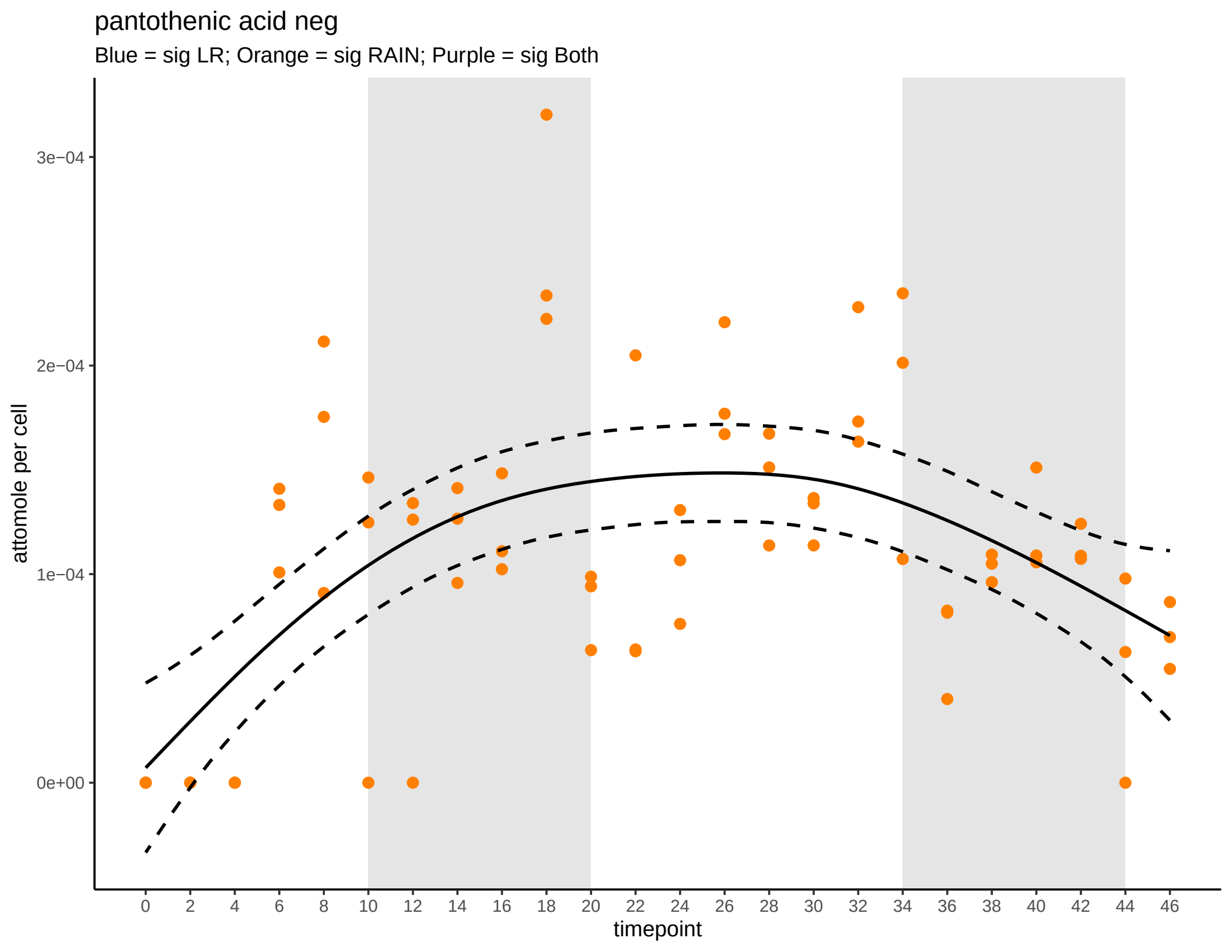

sucrose387 neg
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
9
6
3
0
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

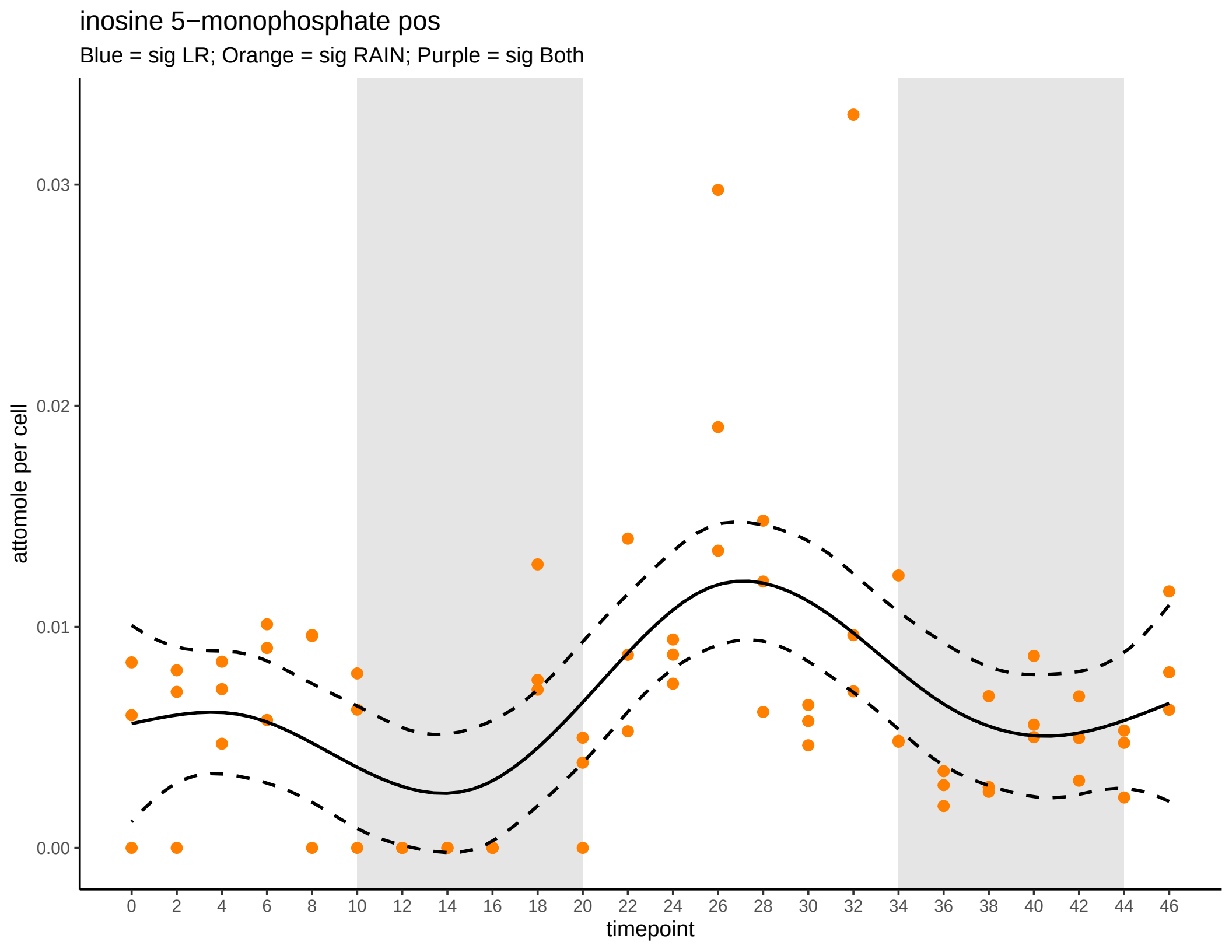

tyrosine
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.015
0.010
0.005
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

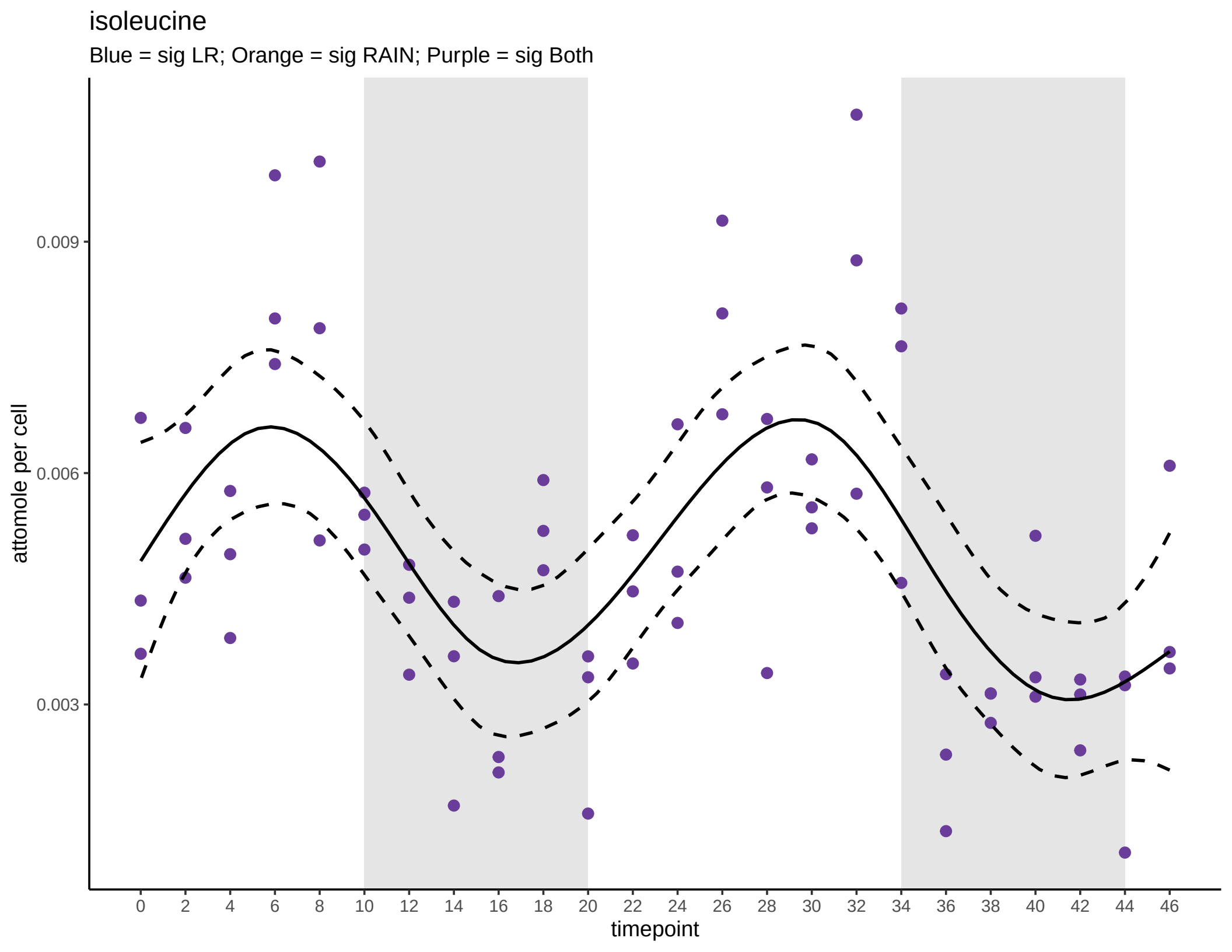

UDP−glucose
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.0075
0.0050
0.0025
0.0000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

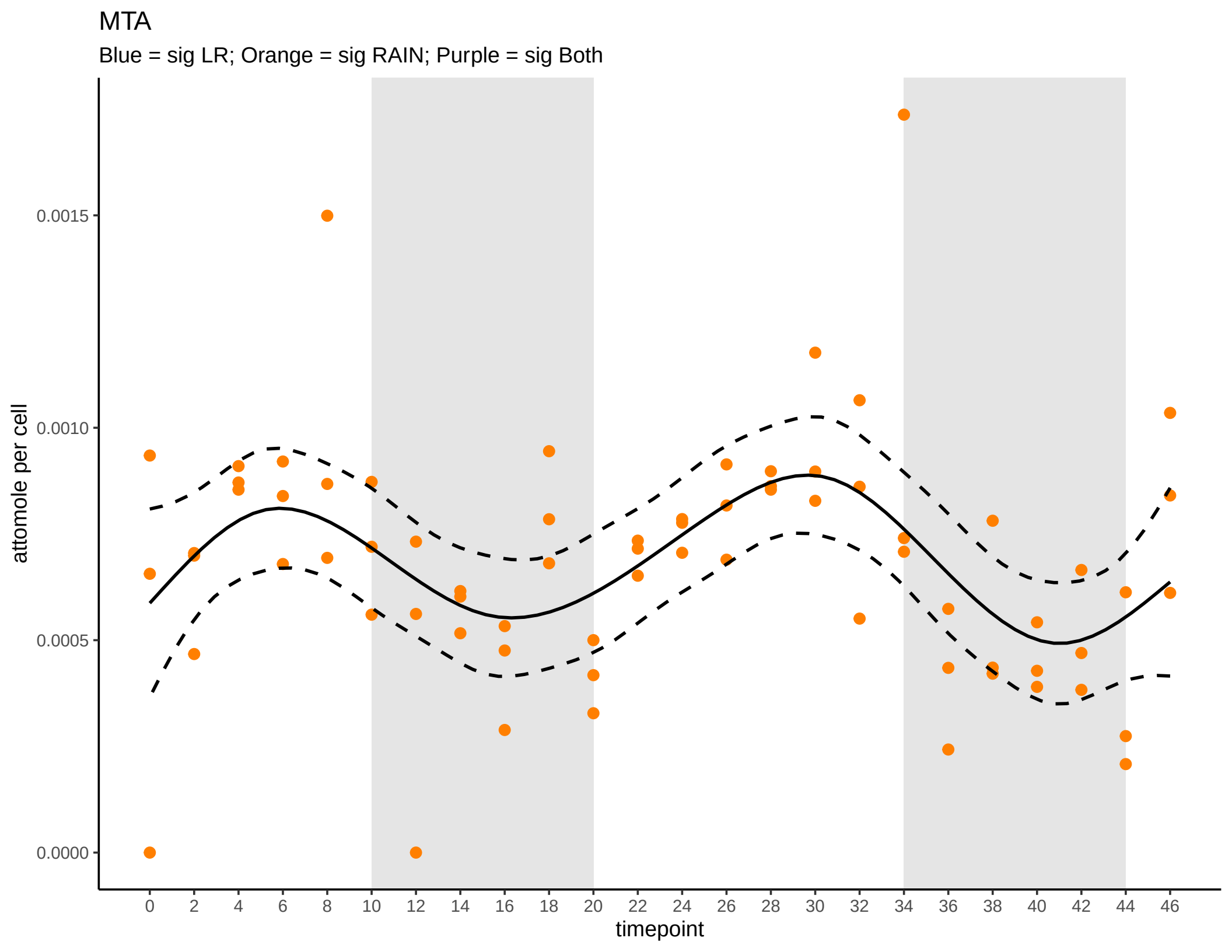

uridine 5−monophosphate pos
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.0075
0.0050
0.0025
0.0000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

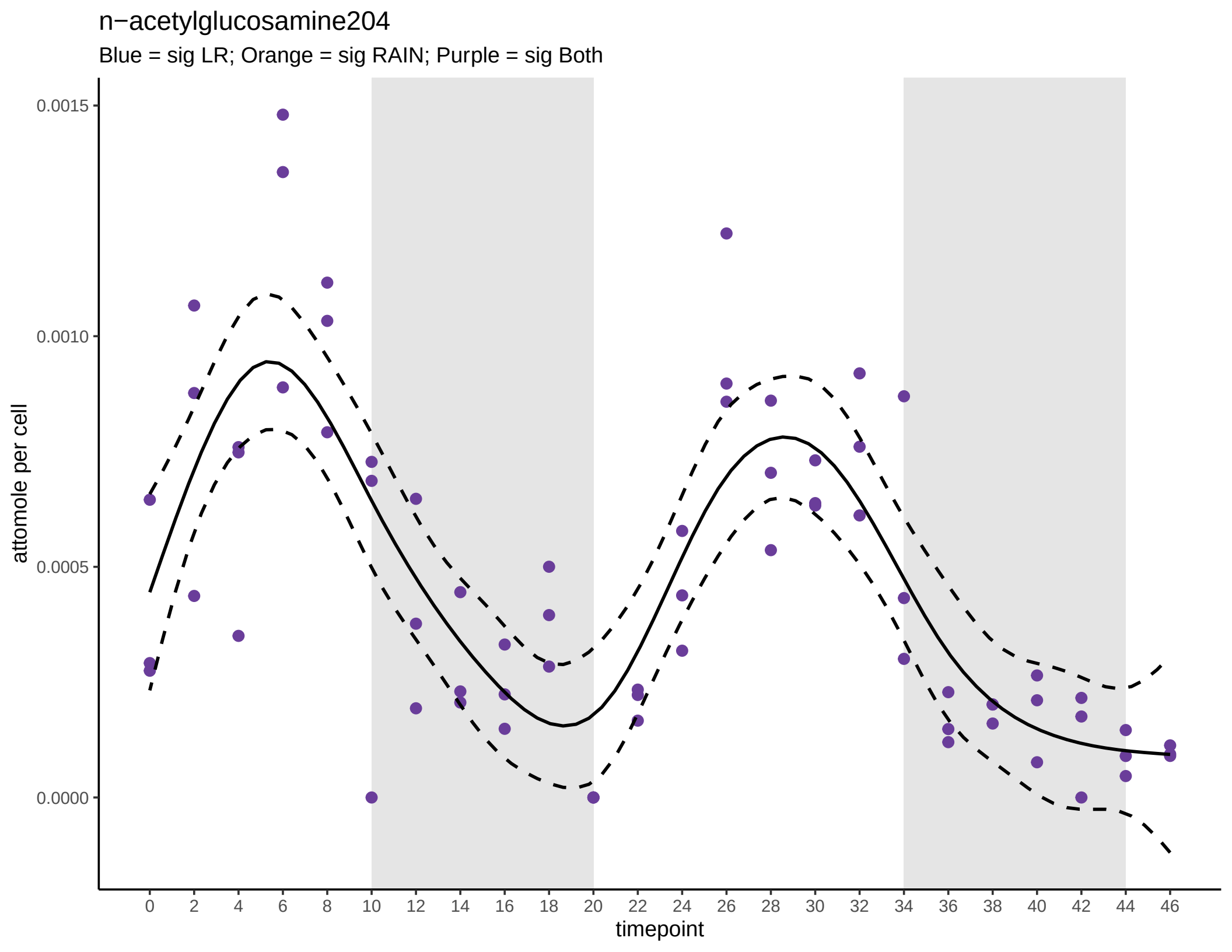

xanthosine neg
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.00020
0.00015
0.00010
0.00005
0.00000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

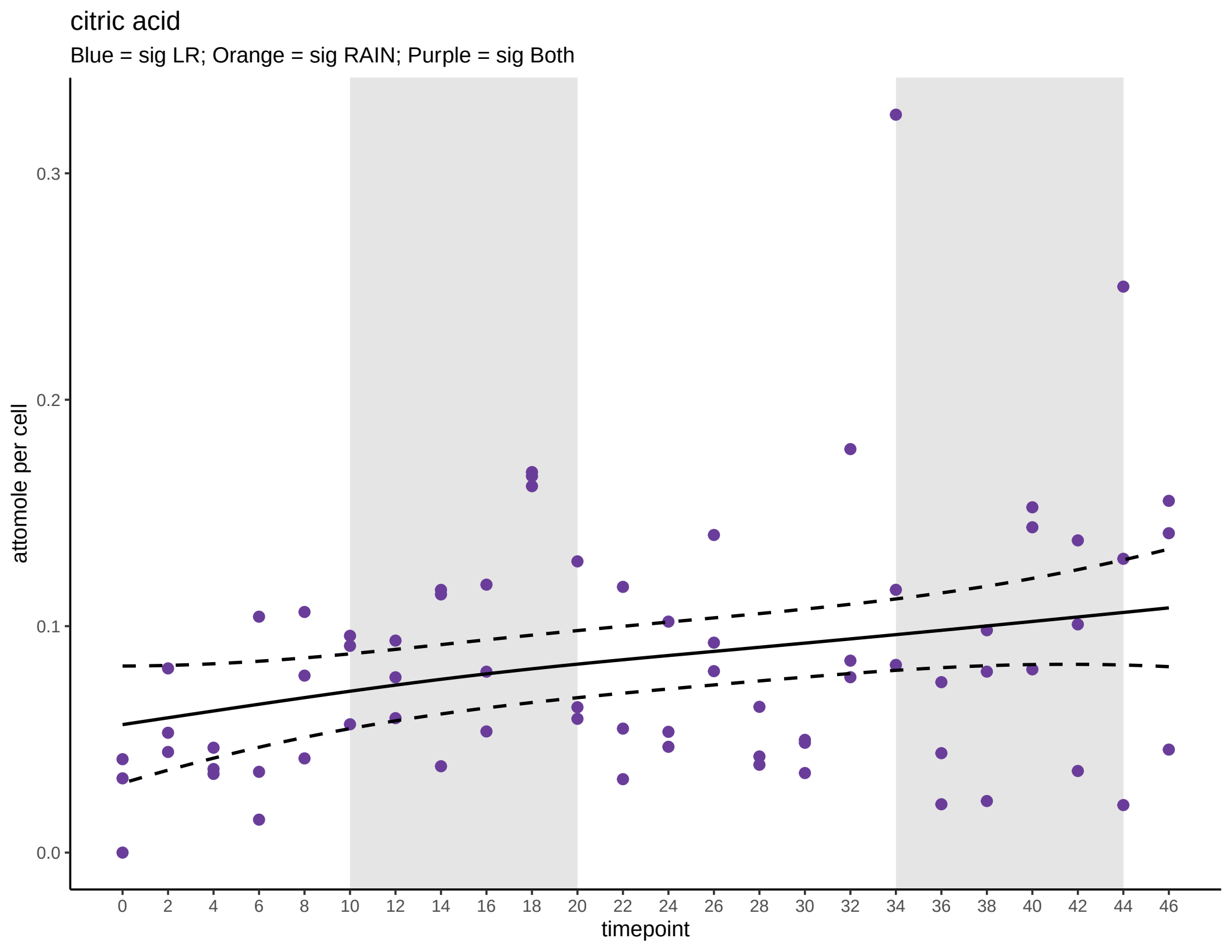

pantothenic acid neg
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
3e−04
2e−04
1e−04
0e+00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

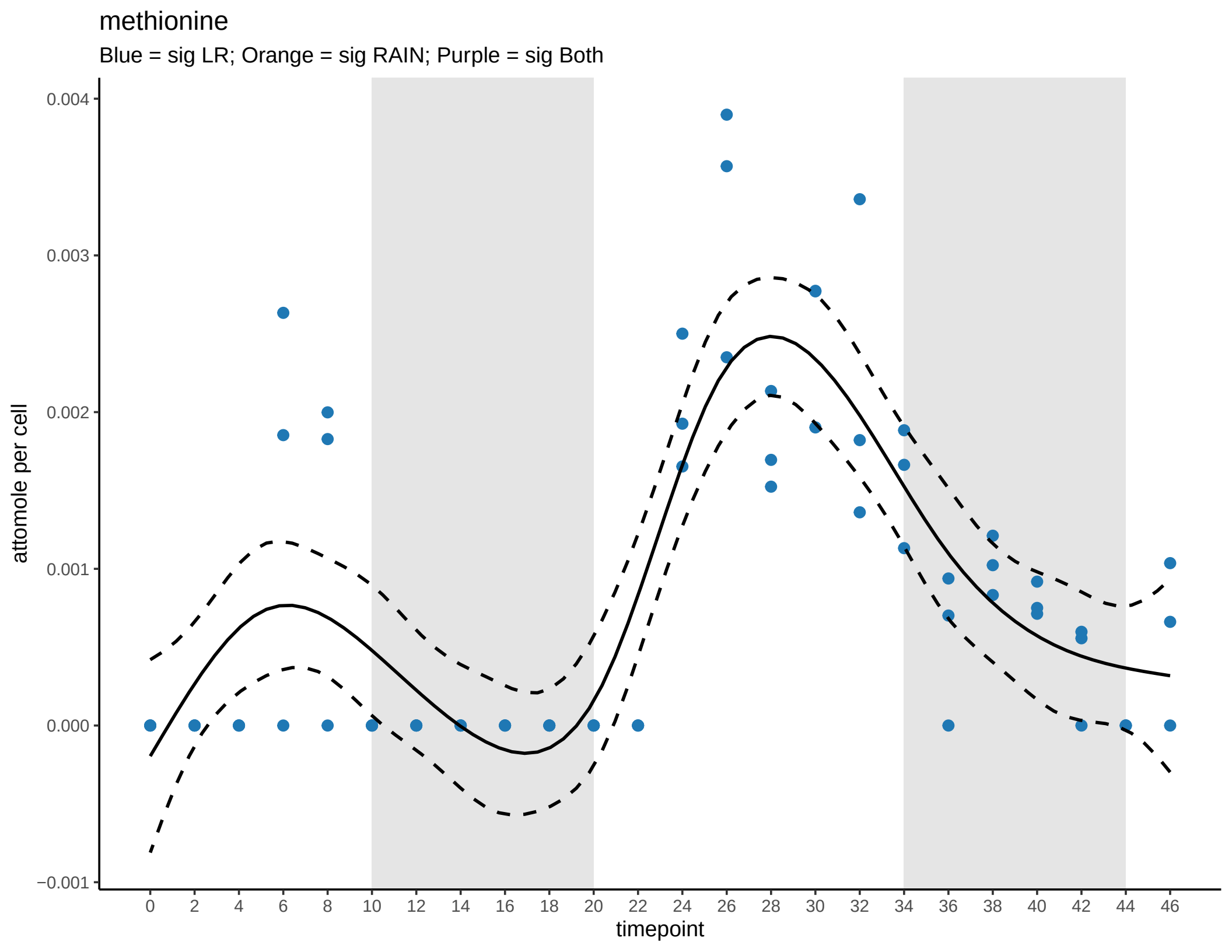

inosine 5−monophosphate pos
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.03
0.02
0.01
0.00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

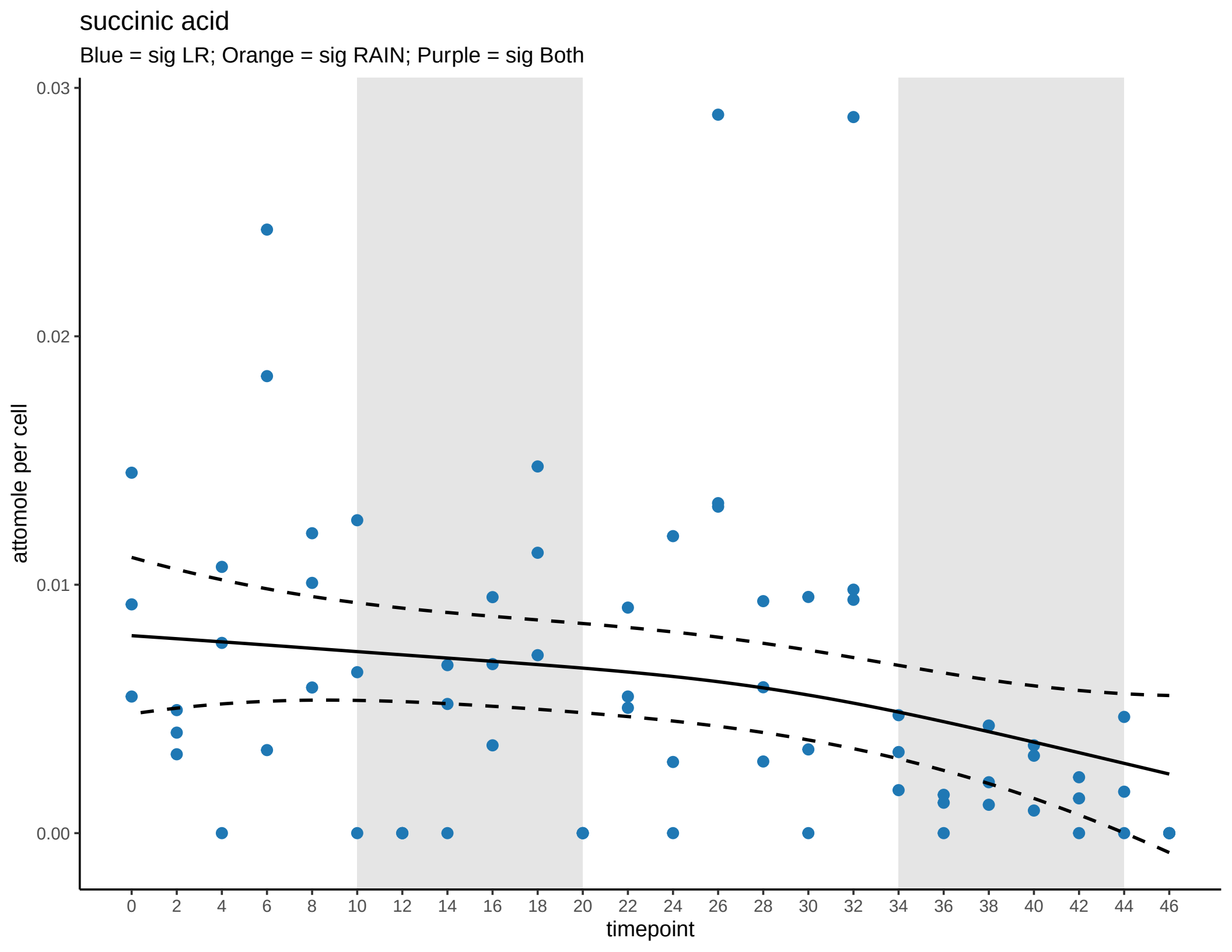

isoleucine
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.009
0.006
0.003
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

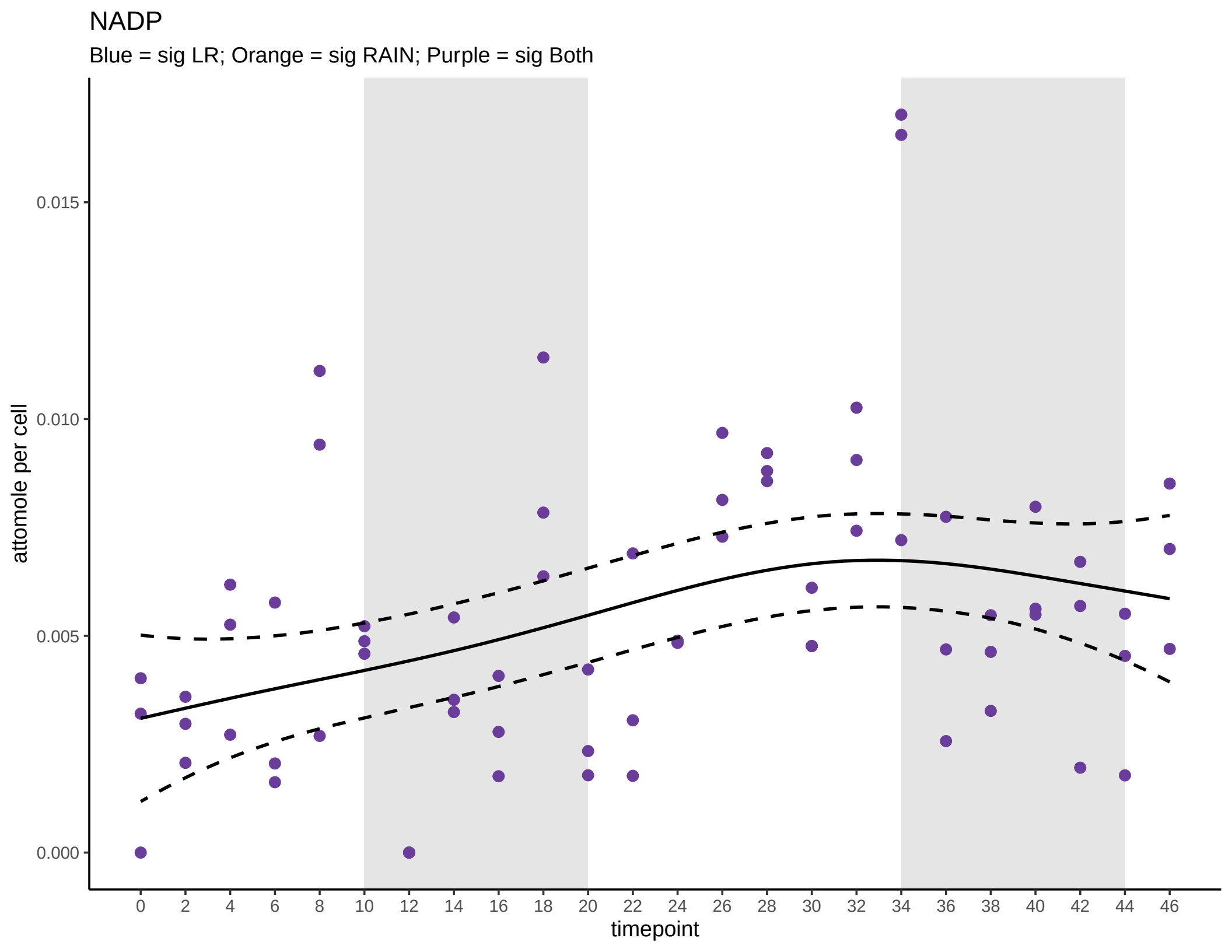

MTA
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.0015
0.0010
0.0005
0.0000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

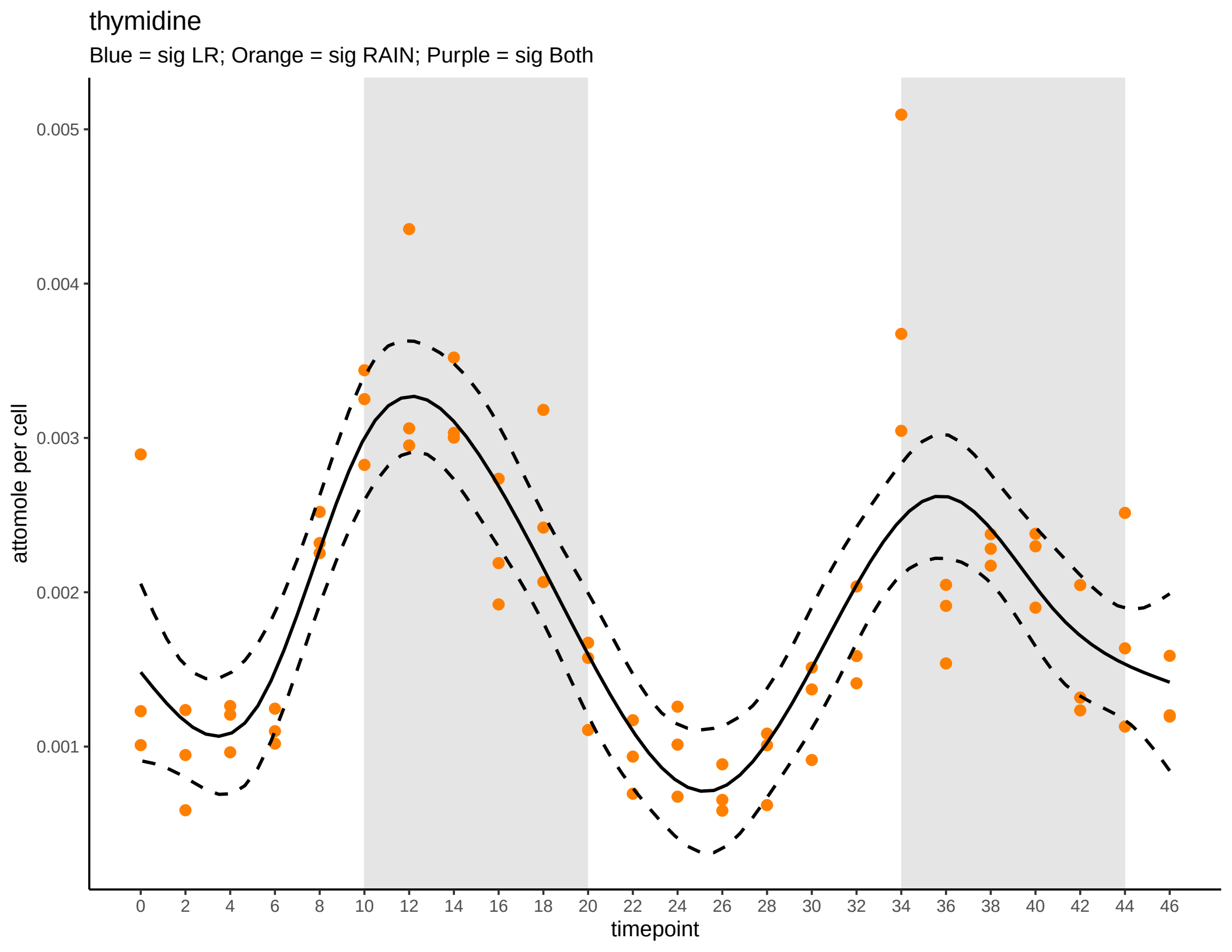

n−acetylglucosamine204
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.0015
0.0010
0.0005
0.0000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint

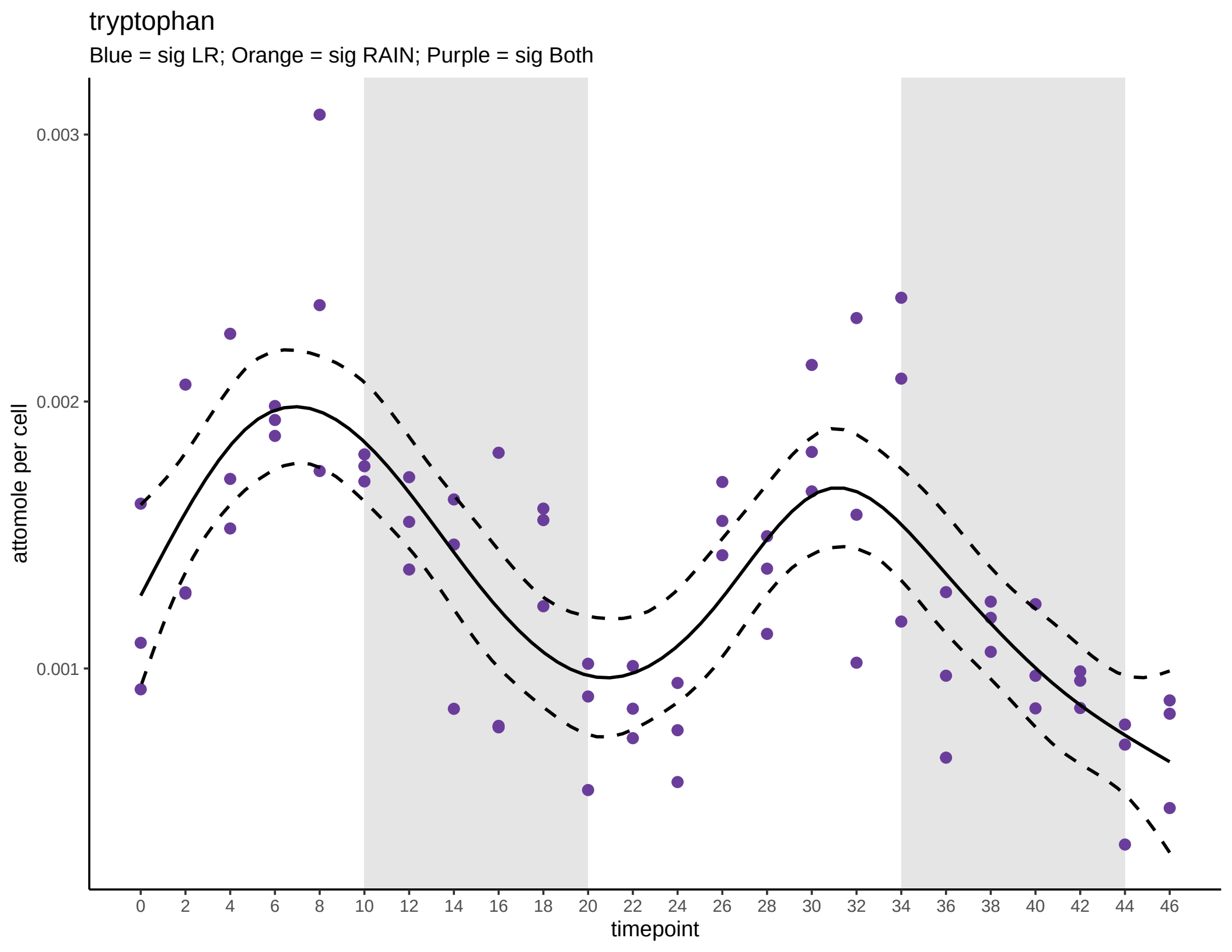

citric acid
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.0
0.1
0.2
0.3
timepoint
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46


methionine
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.004
0.003
0.002
0.001
0.000
−0.001
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint


succinic acid
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.03
0.02
0.01
0.00
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint


NADP
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.000
0.005
0.010
0.015
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint


thymidine
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.005
0.004
0.003
0.002
0.001
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint


tryptophan
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.003
0.002
0.001
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
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36
38
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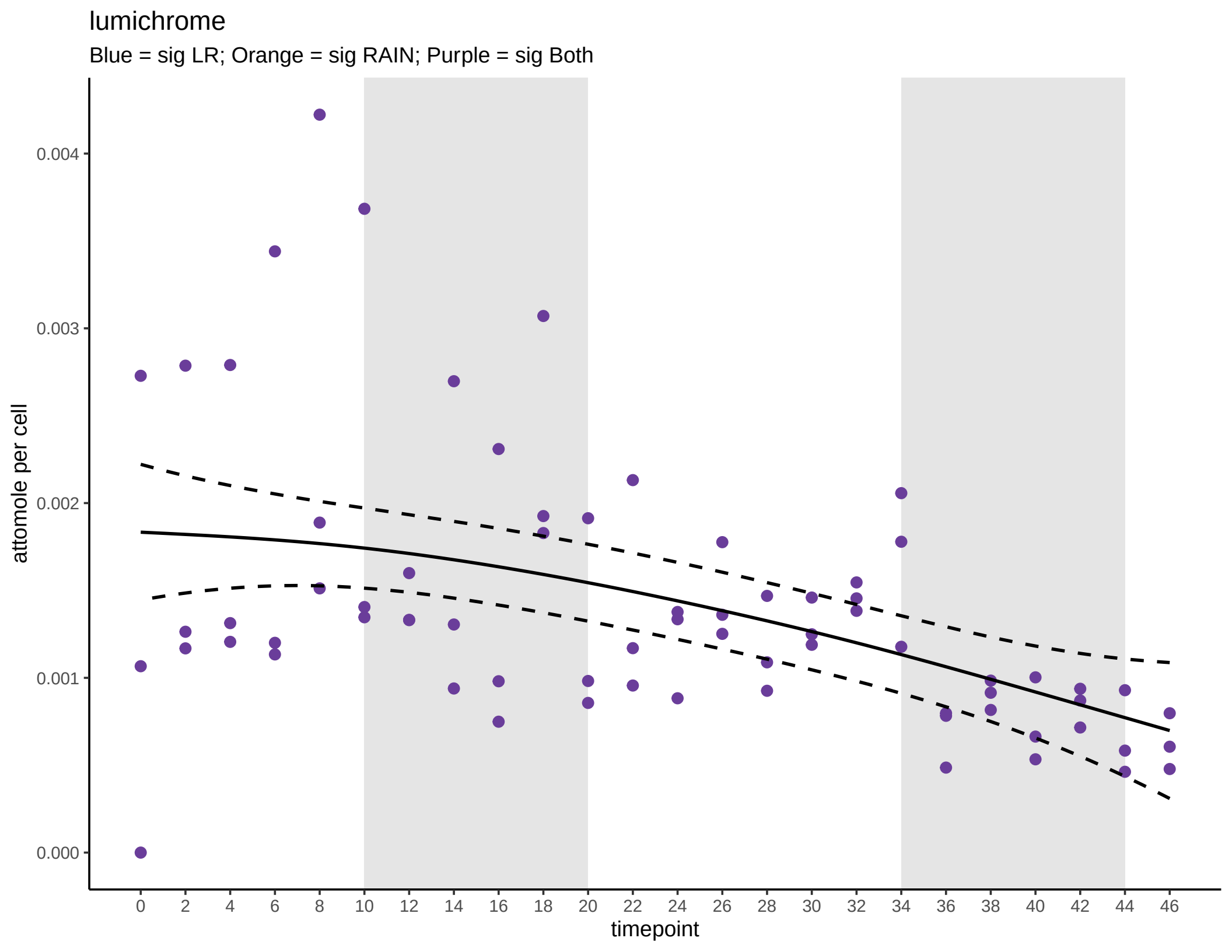
42
44
46
timepoint


lumichrome
Blue = sig LR; Orange = sig RAIN; Purple = sig Both
attomole per cell
0.004
0.003
0.002
0.001
0.000
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
timepoint