Signal can directly regulate effector genes

```
1. Selection for filtering out spurious signal
7
10
12
20
21
25
30
31
32
38
41
42
46
49
50
52
59
61
64
75
78
79
```

2. No spurious signal

```
88
89
91
92
93
3. Harmless sprious signal
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
```

4. Neutral evolution

```
18
19
20
21
22
23
24
25
26
27
28
29
30
5. Selection for filtering out spurious signal, but no cost
to express genes
6
7
11
12
```

```
97
99
102
105
106
109
111
114
```

Signal cannot directly regulate effector genes

```
1. Selection for filtering out spurious signal
2
6
7
8
9
10
18
22
23
24
25
27
```

2. No spurious signal

3. Harmless spurious signal

4. Neutral evolution