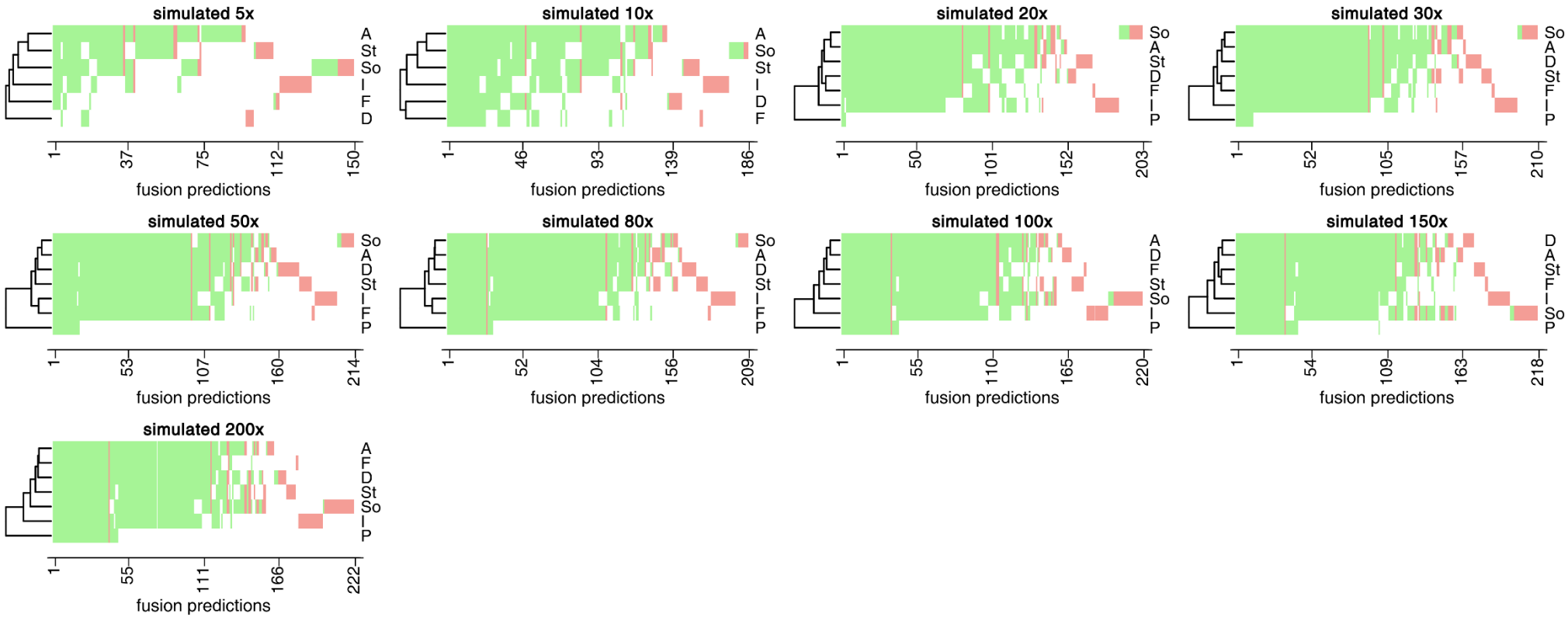
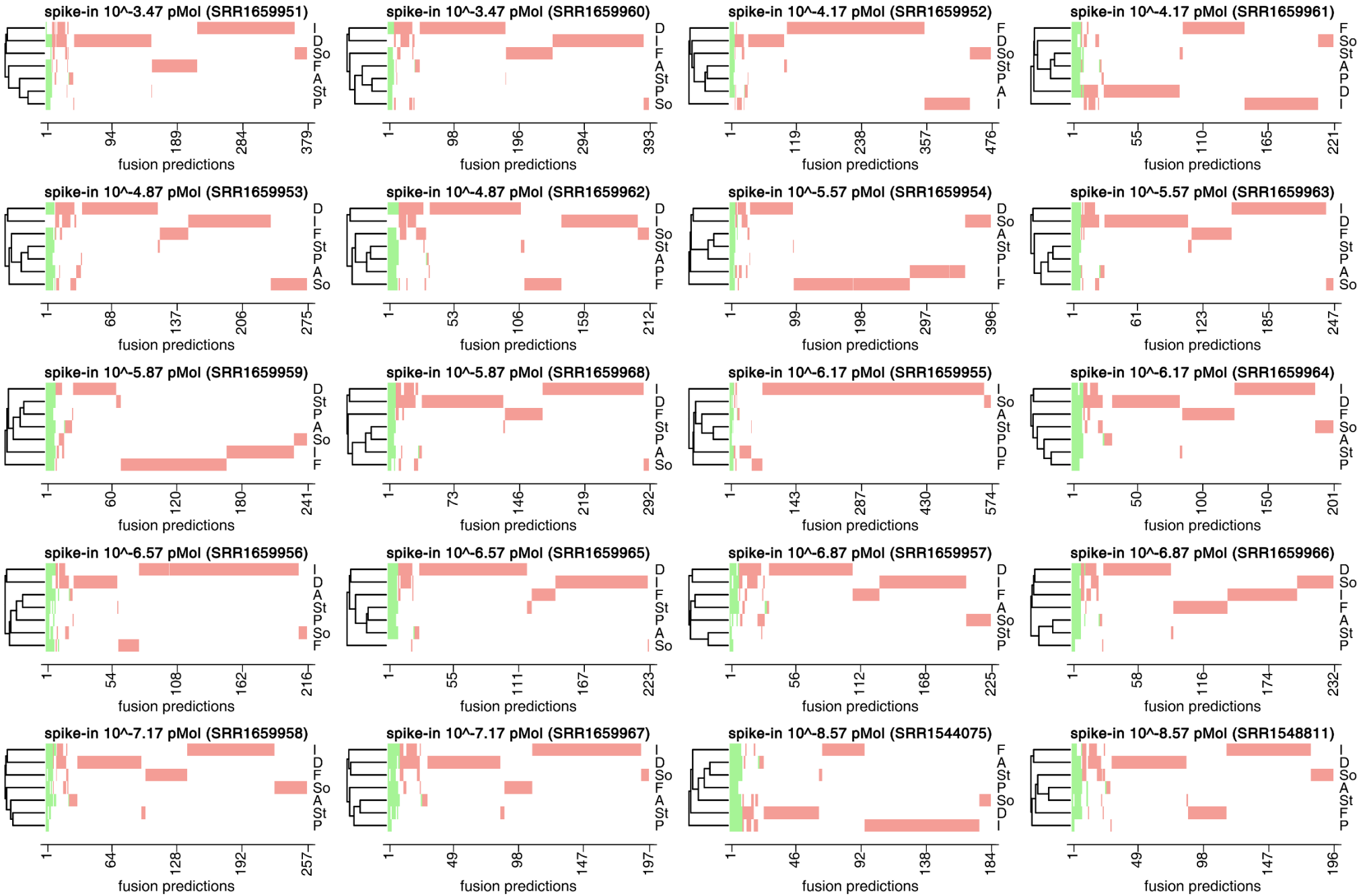
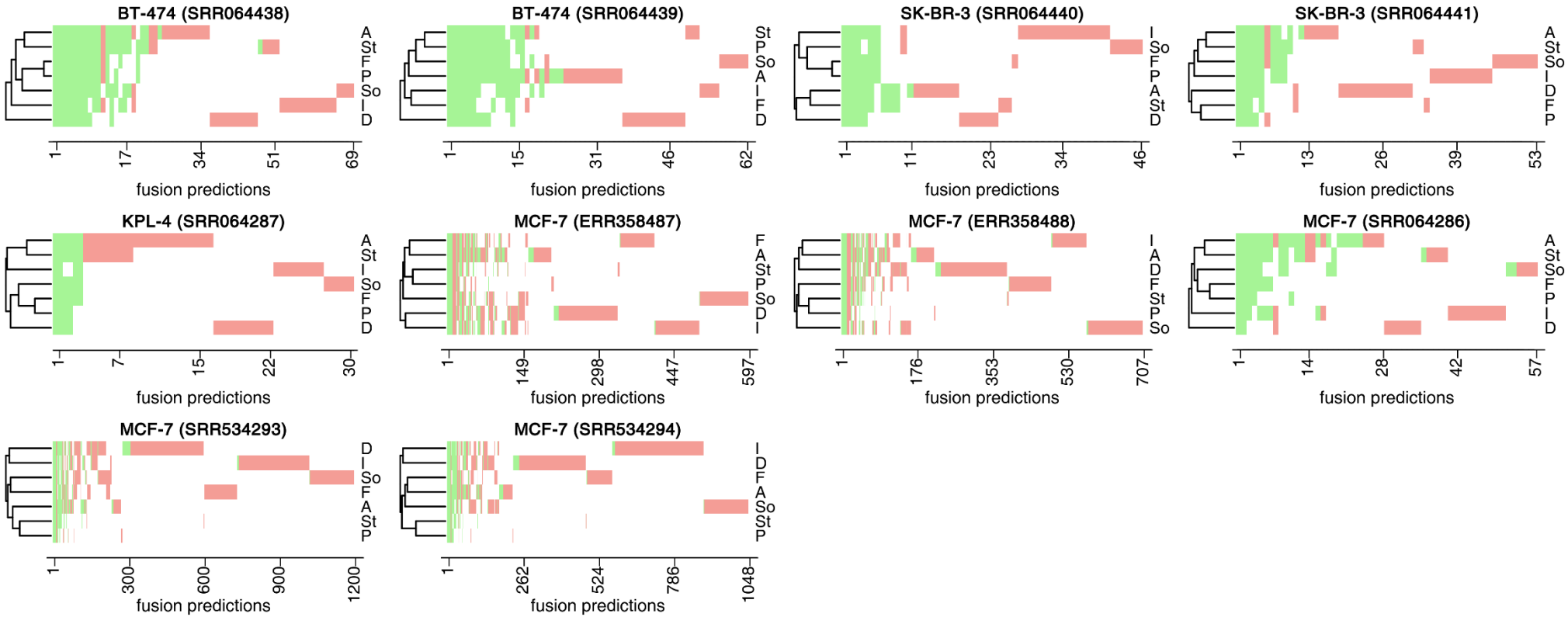
A


simulated 5x
A
St
So
I
F
D
1
37
75
112
150
fusion predictions
simulated 10x
A
So
St
I
D
F
1
46
93
139
186
fusion predictions
simulated 20x
So
A
St
D
F
I
P
1
50
101
152
203
fusion predictions
simulated 30x
So
A
D
St
F
I
P
1
52
105
157
210
fusion predictions
simulated 50x
So
A
D
St
I
F
P
1
53
107
160
214
fusion predictions
simulated 80x
So
A
D
St
I
F
P
1
52
104
156
209
fusion predictions
simulated 100x
A
D
F
St
So
I
P
1
55
110
165
220
fusion predictions
simulated 150x
D
A
St
F
I
So
P
1
54
109
163
218
fusion predictions
simulated 200x
A
F
D
St
So
I
P
1
55
111
166
222
fusion predictions

B


spike-in 10^-3.47 pMol (SRR1659951)
spike-in 10^-3.47 pMol (SRR1659960)
spike-in 10^-4.17 pMol (SRR1659952)
spike-in 10^-4.17 pMol (SRR1659961)
spike-in 10^-4.87 pMol (SRR1659953)
spike-in 10^-4.87 pMol (SRR1659962)
spike-in 10^-5.57 pMol (SRR1659954)
spike-in 10^-5.57 pMol (SRR1659963)
spike-in 10^-5.87 pMol (SRR1659959)
spike-in 10^-5.87 pMol (SRR1659968)
spike-in 10^-6.17 pMol (SRR1659955)
spike-in 10^-6.17 pMol (SRR1659964)
spike-in 10^-6.57 pMol (SRR1659956)
spike-in 10^-6.57 pMol (SRR1659965)
spike-in 10^-6.87 pMol (SRR1659957)
spike-in 10^-6.87 pMol (SRR1659966)
spike-in 10^-7.17 pMol (SRR1659958)
spike-in 10^-7.17 pMol (SRR1659967)
spike-in 10^-8.57 pMol (SRR1544075)
spike-in 10^-8.57 pMol (SRR1548811)
fusion predictions

C



Supplemental Figure S2: Fusion predictions shared between the methods.
The fusion predictions are sorted in descending order from left to right by the number of methods that reported them. True positives are shown in green; false positives (simulated dataset) or non-validated predictions (spike-in and cell line datasets) are shown in red. Only gene-to-gene fusions were considered. A, Arriba; D, deFuse; F, FusionCatcher; I, InFusion; P, PRADA; So, SOAPfuse; St, STAR-Fusion. (A) Simulated data. (B) Spike-ins of synthetic fusions. (C) Cell lines.