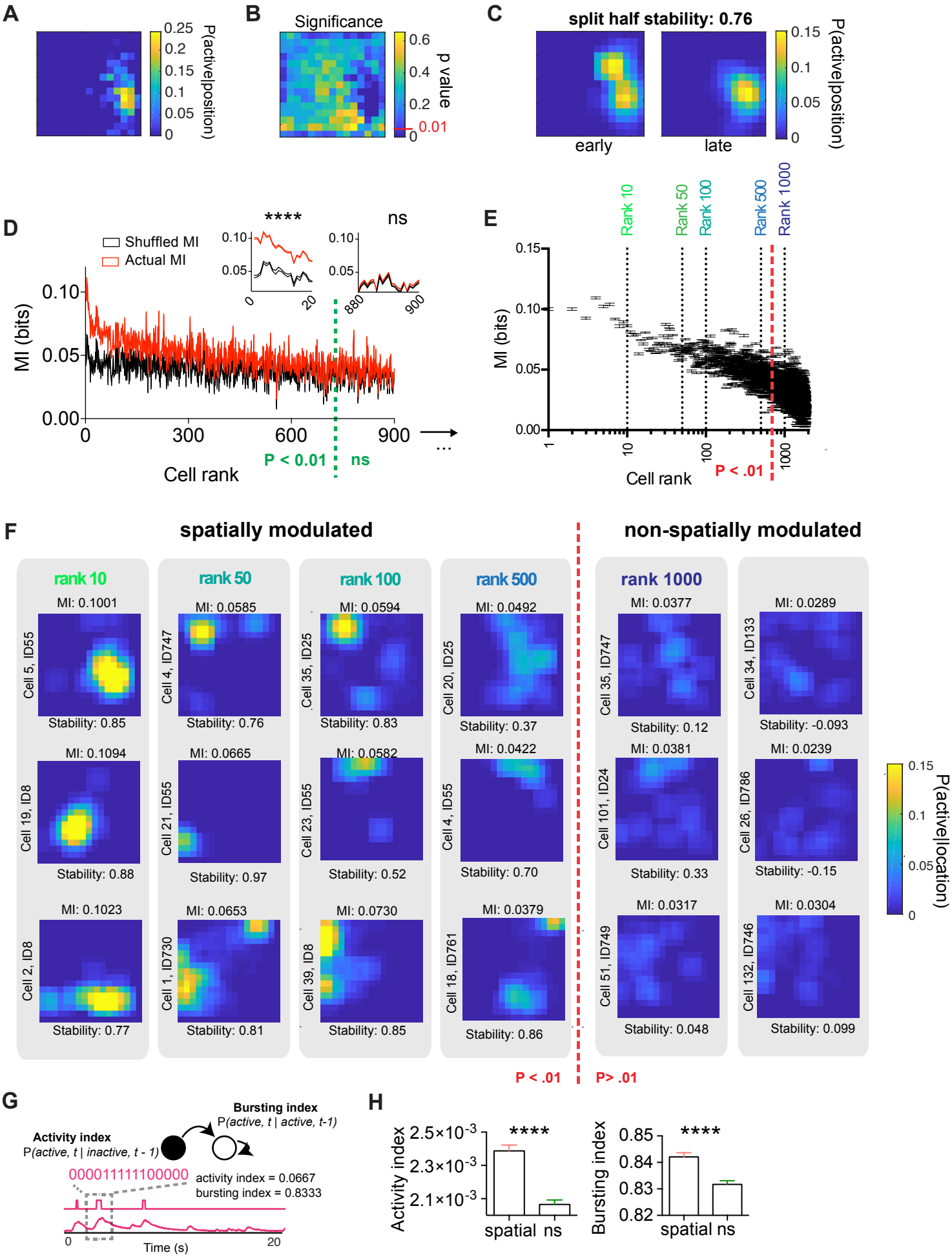
S9 Fig


A
0.25
0.2
0.15
0.1
0.05
0
P(active|position)
B
Significance
0.6
0.4
0.2
0.01
0
p value
C
split half stability: 0.76
early
late
0.15
0.1
0.05
0
P(active|position)
D
Shuffled MI
Actual MI
****
ns
MI (bits)
0.10
0.05
0.00
0
300
600
900
Cell rank
P < 0.01
ns
E
Rank 10
Rank 50
Rank 100
Rank 500
Rank 1000
MI (bits)
0.15
0.10
0.05
0.00
1
10
100
1000
Cell rank
P < .01
F
spatially modulated
non-spatially modulated
rank 10
rank 50
rank 100
rank 500
rank 1000
MI: 0.1001
Cell 5, ID55
Stability: 0.85
MI: 0.0585
Cell 4, ID747
Stability: 0.76
MI: 0.0594
Cell 35, ID25
Stability: 0.83
MI: 0.0492
Cell 20, ID25
Stability: 0.37
MI: 0.0377
Cell 35, ID747
Stability: 0.12
MI: 0.0289
Cell 34, ID133
Stability: -0.093
MI: 0.1094
Cell 19, ID8
Stability: 0.88
MI: 0.0665
Cell 21, ID55
Stability: 0.97
MI: 0.0582
Cell 23, ID55
Stability: 0.52
MI: 0.0422
Cell 4, ID55
Stability: 0.70
MI: 0.0381
Cell 101, ID24
Stability: 0.33
MI: 0.0239
Cell 26, ID786
Stability: -0.15
MI: 0.1023
Cell 2, ID8
Stability: 0.77
MI: 0.0653
Cell 1, ID730
Stability: 0.81
MI: 0.0730
Cell 39, ID8
Stability: 0.85
MI: 0.0379
Cell 18, ID761
Stability: 0.86
MI: 0.0317
Cell 51, ID749
Stability: 0.048
MI: 0.0304
Cell 132, ID746
Stability: 0.099
P < .01
P> .01
0.15
0.1
0.05
0
P(active|location)
G
Bursting index
P(active, t | active, t-1)
Activity index
P(active, t | inactive, t - 1)
000011111100000
activity index = 0.0667
bursting index = 0.8333
0
Time (s)
20
H
Activity index
2.5×10-3
2.3×10-3
2.1×10-3
****
spatial
ns
Bursting index
0.85
0.84
0.83
0.82
****
spatial
ns