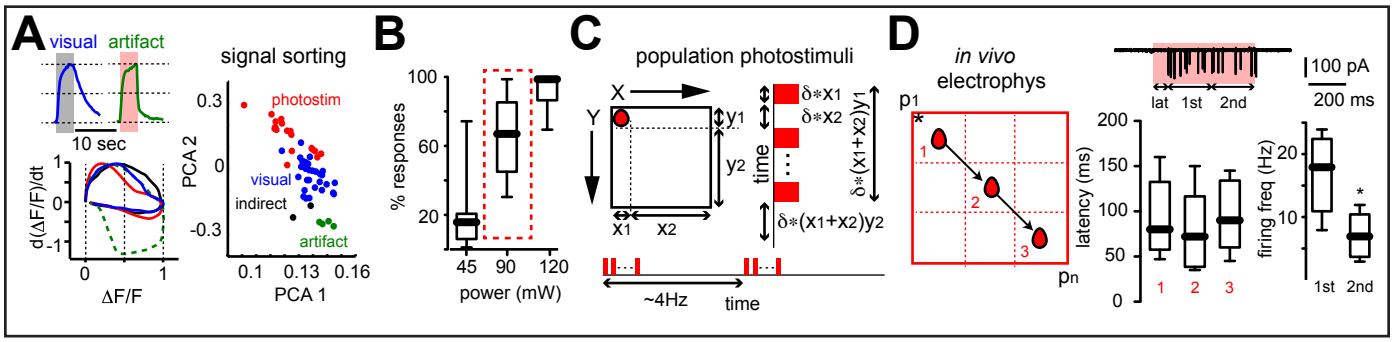
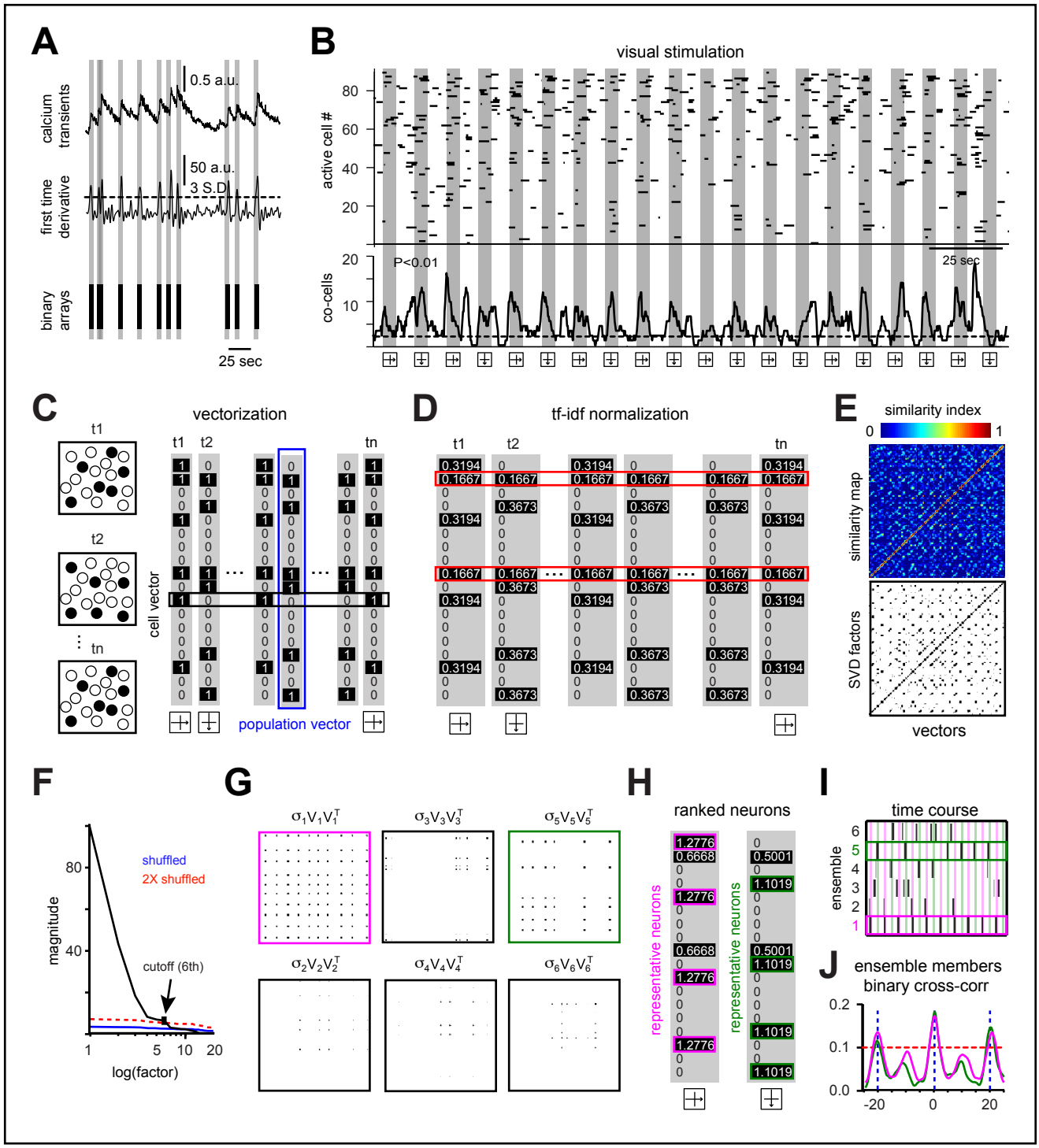
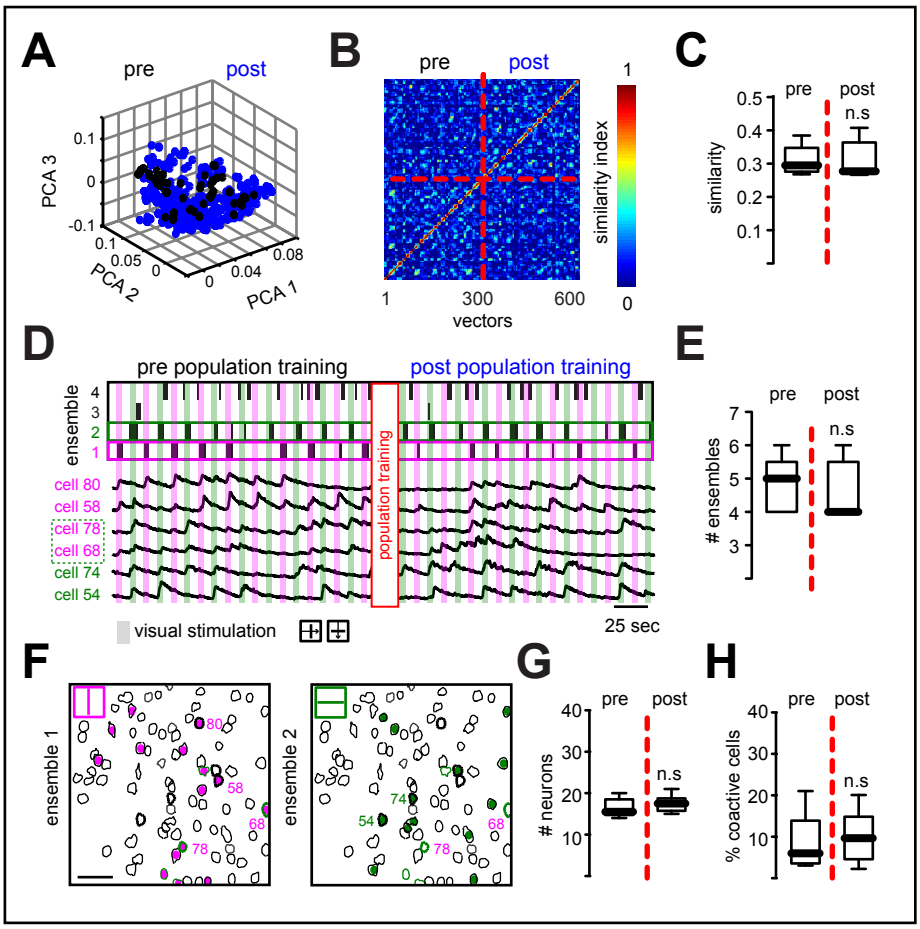
Carrillo-Reid_Yuste Fig. S1

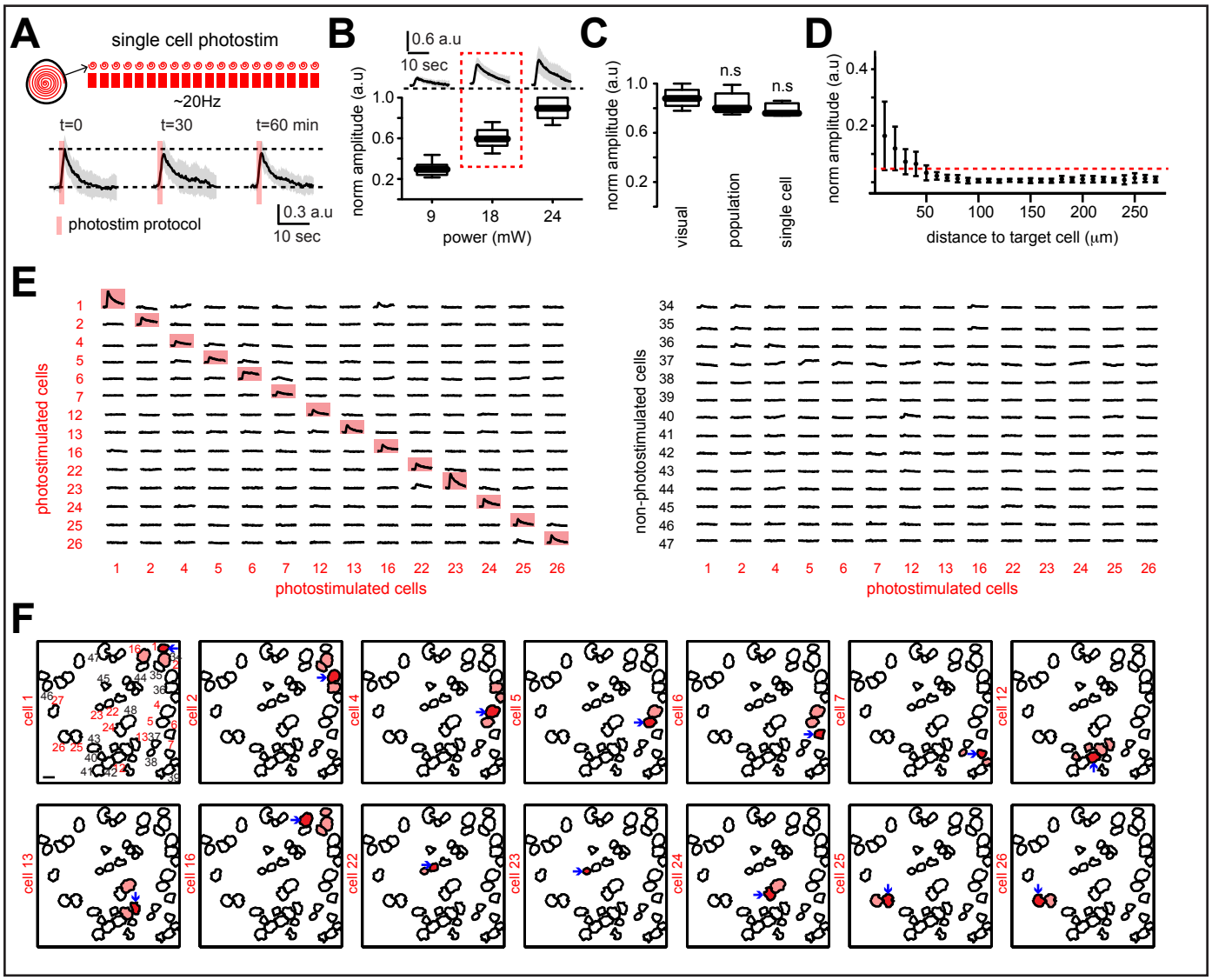



A
calcium transients
0.5 a.u.
first time derivative
50 a.u.
3 S.D.
binary arrays
25 sec
B
visual stimulation
active cell #
80
60
40
20
co-cells
20
10
P<0.01
25 sec
C
vectorization
t1
t2
tn
cell vector
population vector
D
tf-idf normalization
0.3194
0.1667
0.3673
E
similarity index
0
1
similarity map
SVD factors
vectors
F
shuffled
2X shuffled
magnitude
80
40
cutoff (6th)
1
5
10
20
log(factor)
G
$\sigma_1 V_1 V_1^T$
$\sigma_3 V_3 V_3^T$
$\sigma_5 V_5 V_5^T$
$\sigma_2 V_2 V_2^T$
$\sigma_4 V_4 V_4^T$
$\sigma_6 V_6 V_6^T$
H
ranked neurons
representative neurons
representative neurons
1.2776
0.6668
0.5001
1.1019
I
time course
ensemble
6
5
4
3
2
1
J
ensemble members
binary cross-corr
0.2
0.1
0.0
-20
0
20

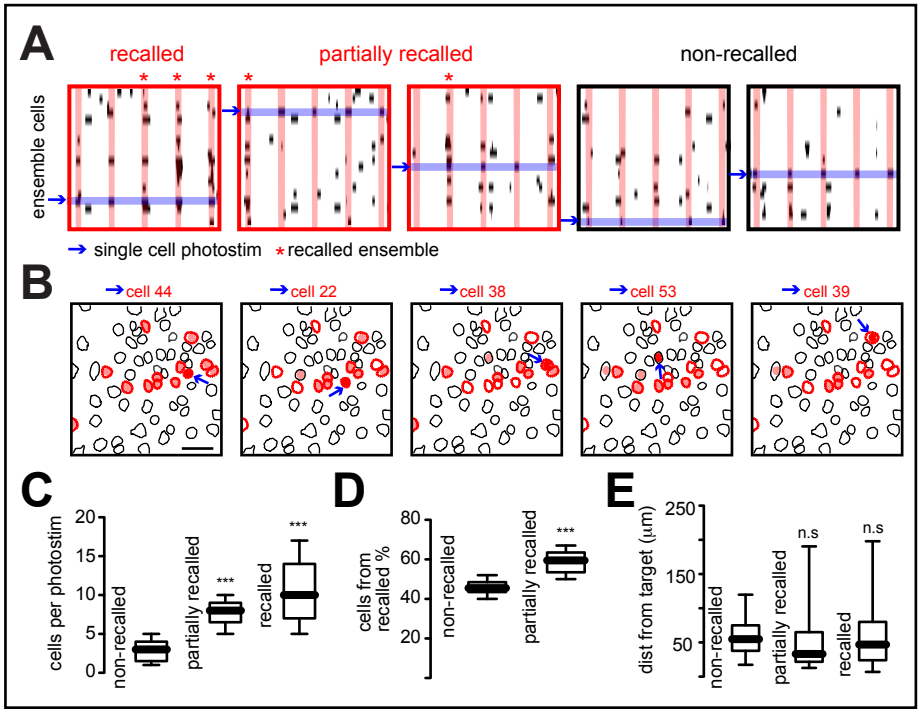
Carrillo-Reid_Yuste Fig. S3



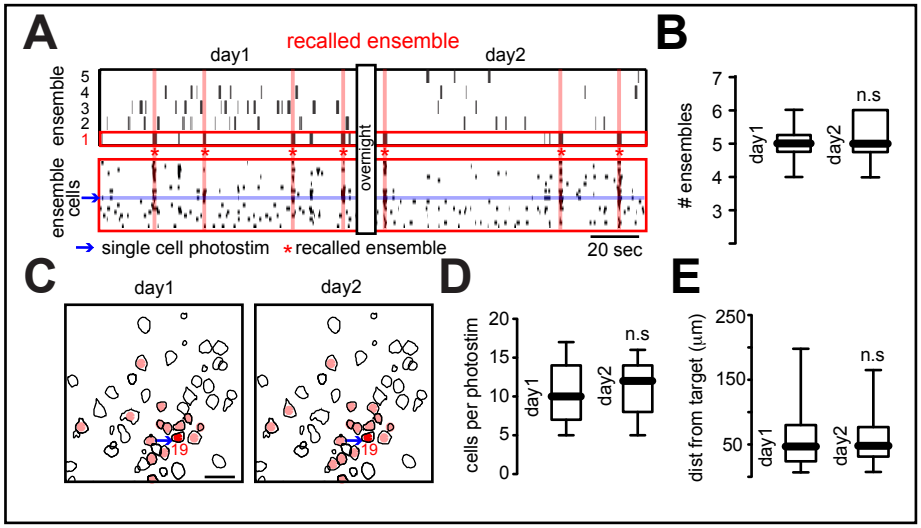
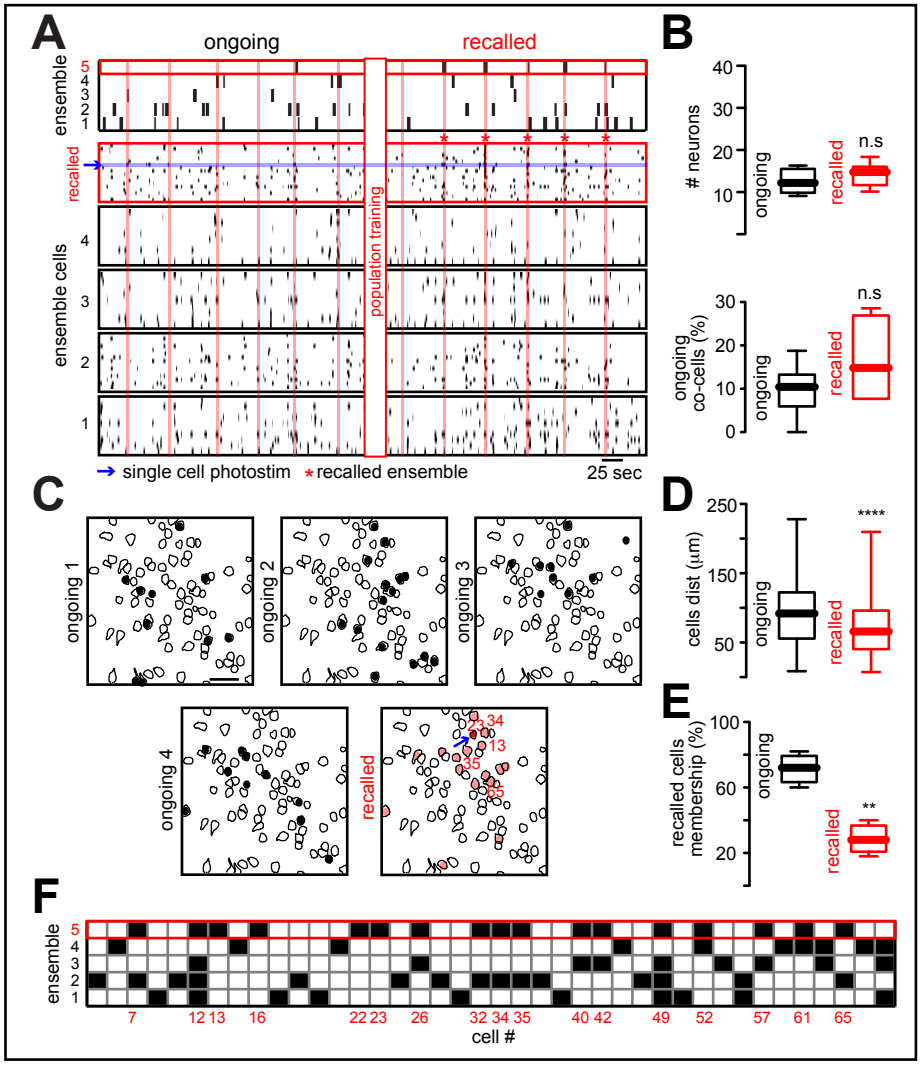
Carrillo-Reid_Yuste Fig. S4



Carrillo-Reid_Yuste Fig. S5



Carrillo-Reid_Yuste Fig. S6



Carrillo-Reid_Yuste Fig. S7