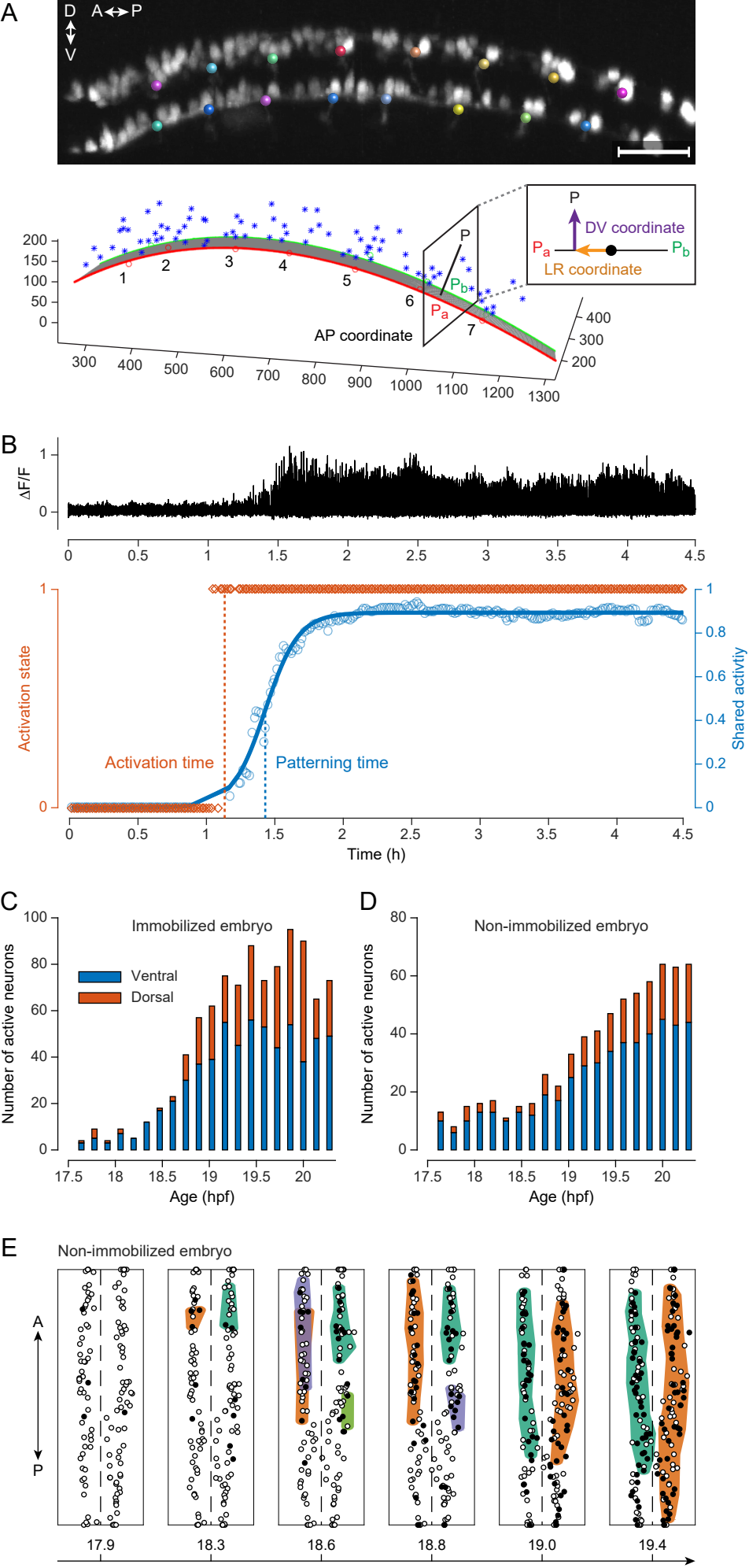
A
D
A
P
V
200
150
100
50
0
1
2
3
4
5
6
7
P
Pb
Pa
AP coordinate
300
400
500
600
700
800
900
1000
1100
1200
1300
400
300
200
P
DV coordinate
Pa
Pb
LR coordinate
B
ΔF/F
1
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Activation state
Activation time
Patterning time
Shared activtiy
0.8
0.6
0.4
0.2
Time (h)
C
Immobilized embryo
Ventral
Dorsal
Number of active neurons
100
80
60
40
20
0
17.5
18
18.5
19
19.5
20
Age (hpf)
D
Non-immobilized embryo
Number of active neurons
80
60
40
20
0
17.5
18
18.5
19
19.5
20
Age (hpf)
E
Non-immobilized embryo
A
P
17.9
18.3
18.6
18.8
19.0
19.4
Age (hours pf)