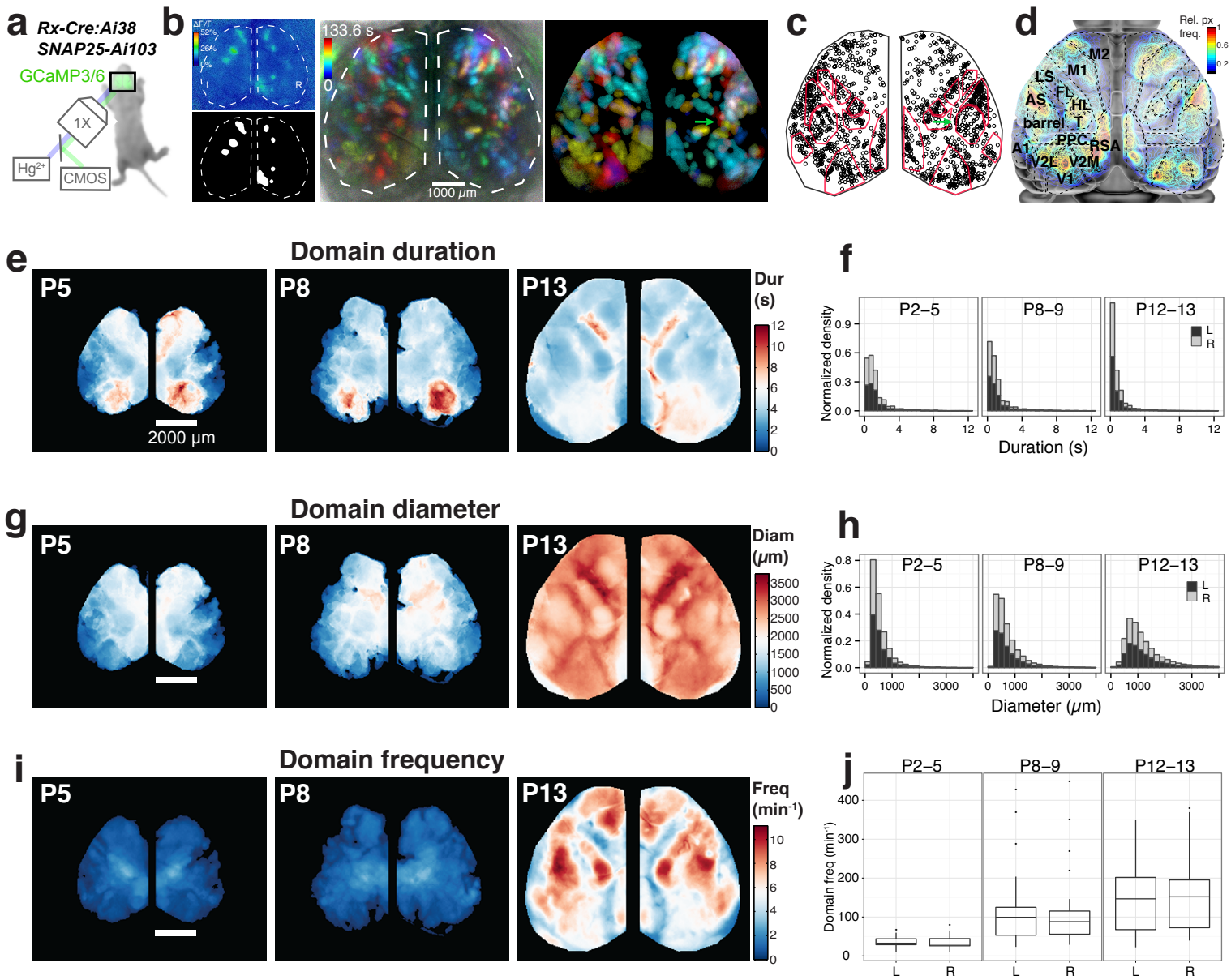
Figure 1


a
Rx-Cre:Ai38
SNAP25-Ai103
GCaMP3/6
1X
Hg2+
CMOS
b
ΔF/F
82%
26%
0%
L
R
133.6 s
0
1000 μm
c
d
Rel. px freq.
1
0.6
0.2
M2
M1
LS
FL
HL
AS
barrel
T
PPC
RSA
A1
V2L
V2M
V1
e
Domain duration
P5
P8
P13
2000 μm
Dur (s)
12
10
8
6
4
2
0
f
P2–5
P8–9
P12–13
L
R
Normalized density
0.9
0.6
0.3
0.0
0
4
8
12
Duration (s)
g
Domain diameter
P5
P8
P13
Diam (μm)
3500
3000
2500
2000
1500
1000
500
0
h
P2–5
P8–9
P12–13
L
R
Normalized density
0.8
0.6
0.4
0.2
0.0
0
1000
3000
Diameter (μm)
i
Domain frequency
P5
P8
P13
Freq (min-1)
10
8
6
4
2
0
j
P2–5
P8–9
P12–13
Domain freq (min-1)
400
300
200
100
0
L
R