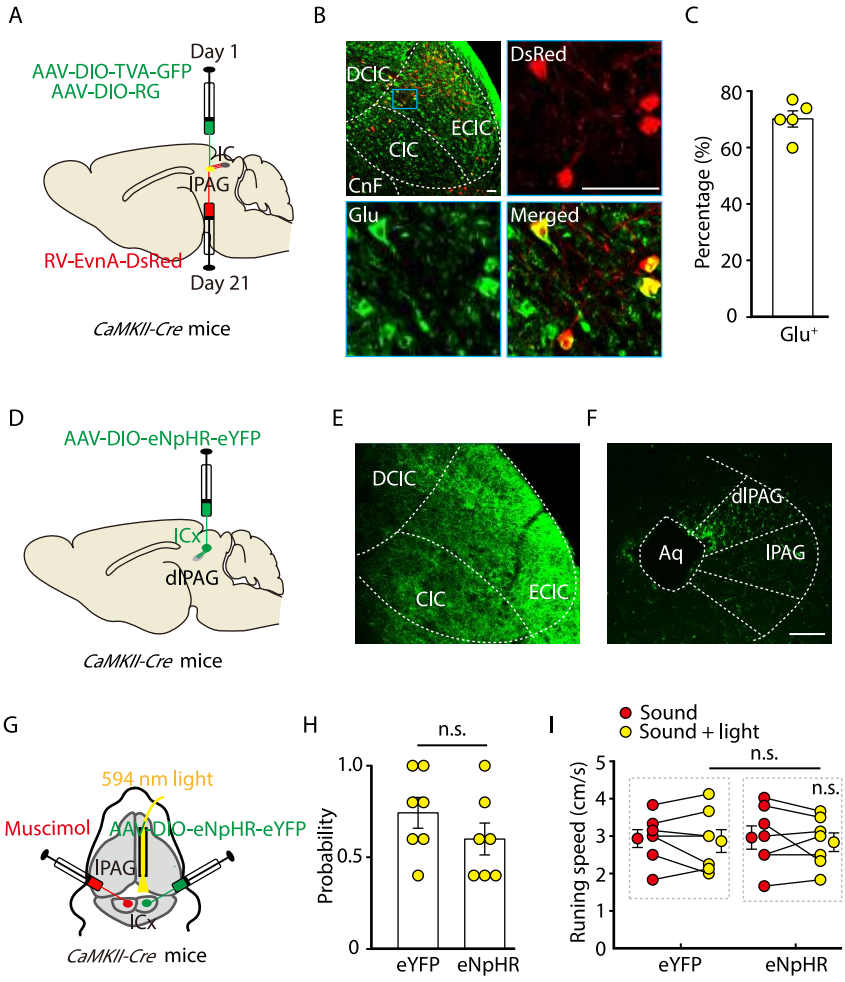
A
Day 1
AAV-DIO-TVA-GFP
AAV-DIO-RG
IC
lPAG
RV-EvnA-DsRed
Day 21
CaMKII-Cre mice
B
DCIC
ECIC
CIC
CnF
DsRed
Glu
Merged
C
Percentage (%)
80
60
40
20
0
Glu+
D
AAV-DIO-eNpHR-eYFP
lCx
dlPAG
CaMKII-Cre mice
E
DCIC
CIC
ECIC
F
dlPAG
Aq
lPAG
G
594 nm light
Muscimol
AAV-DIO-eNpHR-eYFP
lPAG
lCx
CaMKII-Cre mice
H
n.s.
Probability
1.0
0.5
0
eYFP
eNpHR
I
Sound
Sound + light
n.s.
n.s.
Runing speed (cm/s)
5
4
3
2
1
0
eYFP
eNpHR