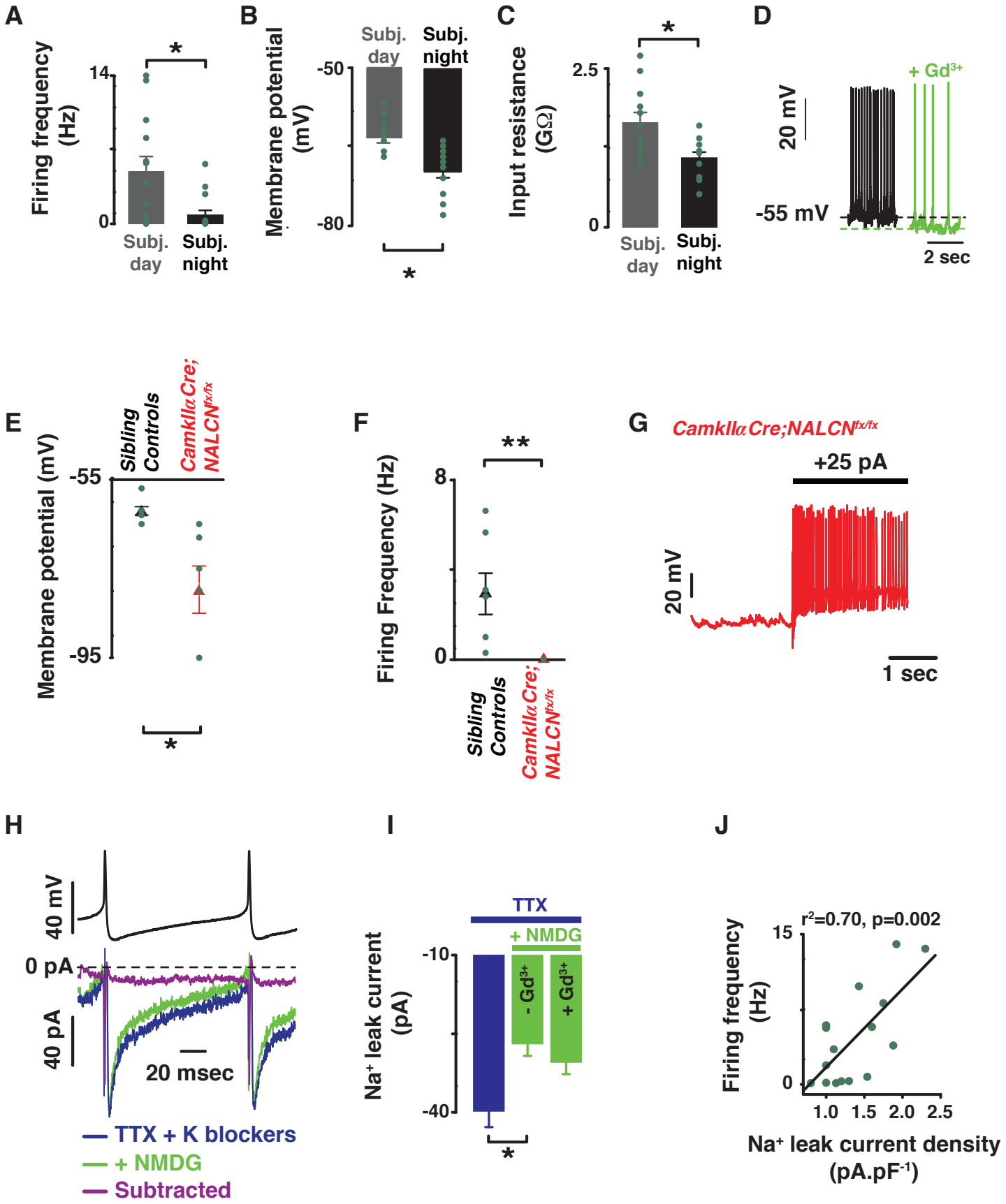
Fig. S6


A
Firing frequency (Hz)
14
0
*
Subj. day
Subj. night
B
Membrane potential (mV)
-50
-80
Subj. day
Subj. night
*
C
Input resistance (GΩ)
2.5
0
*
Subj. day
Subj. night
D
+ Gd3+
20 mV
-55 mV
2 sec
E
Membrane potential (mV)
-55
-95
Sibling Controls
CamkIIαCre; NALCNfx/fx
*
F
Firing Frequency (Hz)
8
0
**
Sibling Controls
CamkIIαCre; NALCNfx/fx
G
CamkIIαCre;NALCNfx/fx
+25 pA
20 mV
1 sec
H
40 mV
0 pA
40 pA
20 msec
TTX + K blockers
+ NMDG
Subtracted
I
Na+ leak current (pA)
TTX
+ NMDG
-10
-40
- Gd3+
+ Gd3+
*
J
r2=0.70, p=0.002
Firing frequency (Hz)
15
0
1.0
1.5
2.0
2.5
Na+ leak current density (pA.pF-1)