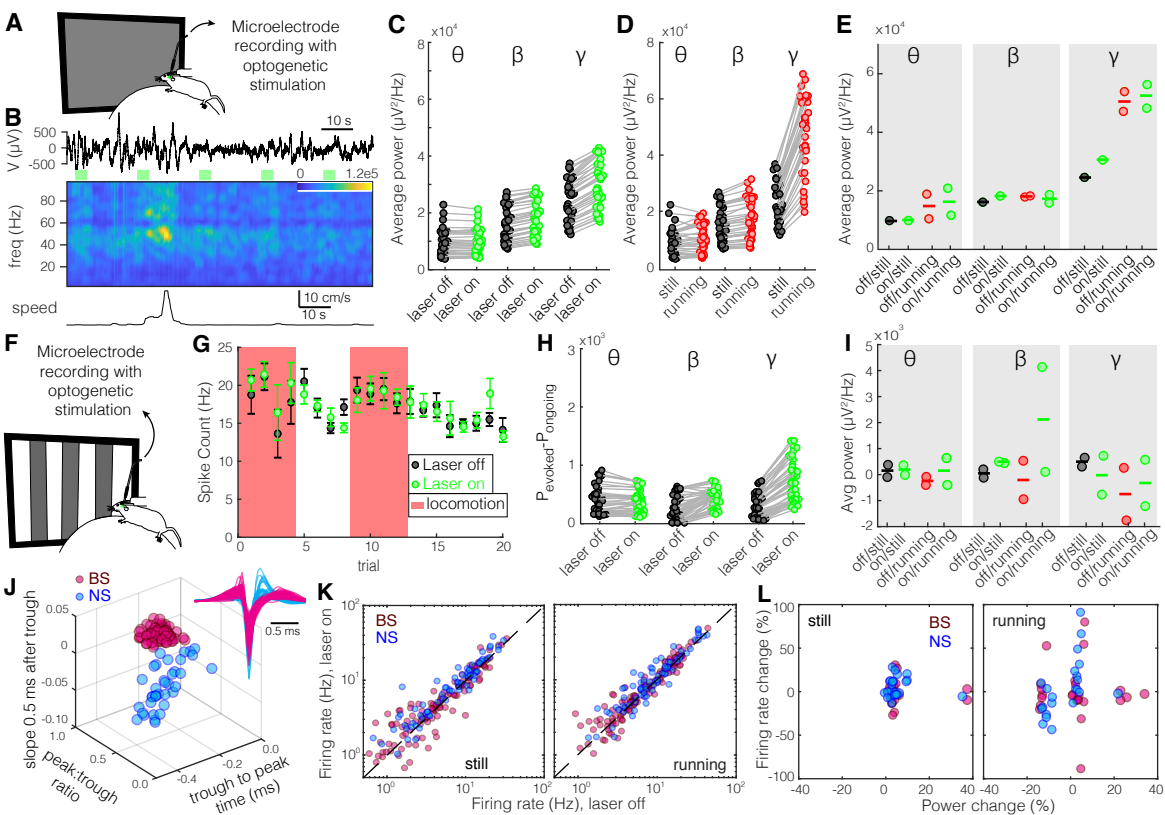
A
Microelectrode recording with optogenetic stimulation
B
V (μV)
500
0
-500
10 s
0
1.2e5
freq (Hz)
80
60
40
20
speed
10 cm/s
10 s
C
x10^4
Average power (μV²/Hz)
θ
β
γ
laser off
laser on
D
still
running
E
off/still
on/still
off/running
on/running
F
Microelectrode recording with optogenetic stimulation
G
Spike Count (Hz)
trial
Laser off
Laser on
locomotion
H
x10^3
P_evoked-P_ongoing
I
Avg power (μV²/Hz)
J
BS
NS
0.5 ms
slope 0.5 ms after trough
peak:trough ratio
trough to peak time (ms)
K
Firing rate (Hz), laser on
Firing rate (Hz), laser off
still
running
L
Firing rate change (%)
Power change (%)