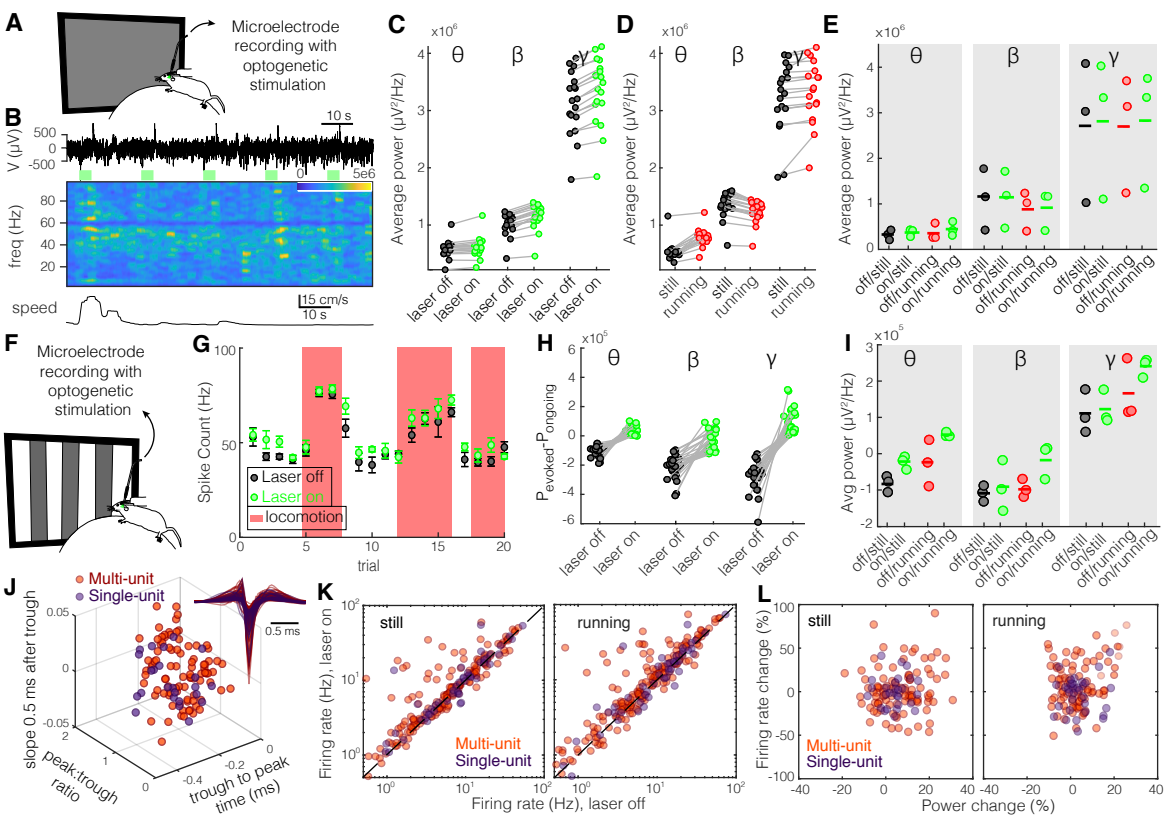
A
Microelectrode recording with optogenetic stimulation
B
10 s
V (μV)
500
0
-500
0
5e6
freq (Hz)
80
60
40
20
speed
15 cm/s
10 s
C
D
E
θ
β
γ
Average power (μV²/Hz)
x10^6
laser off
laser on
still
running
off/still
on/still
off/running
on/running
F
Microelectrode recording with optogenetic stimulation
G
Spike Count (Hz)
trial
Laser off
Laser on
locomotion
H
P_evoked-P_ongoing
x10^5
I
Avg power (μV²/Hz)
x10^5
J
Multi-unit
Single-unit
0.5 ms
slope 0.5 ms after trough
peak:trough ratio
trough to peak time (ms)
K
still
running
Firing rate (Hz), laser on
Firing rate (Hz), laser off
Multi-unit
Single-unit
L
still
running
Firing rate change (%)
Power change (%)
Multi-unit
Single-unit