A
measuring lateral extent of inhibition
4 shanks
1.2 mm
PM
V1
1 mm
a
l
m
p
+ center of V1 retinotopic location
B
baseline and vis. resp.
0.8 mm from LED spot
3 spks/sec
30 ms
r_{base}
r_{min}
r_{vis}
baseline suppression
no inhibition
mean 0.25 mW/mm²
mean 0.8 mW/mm²
10
1
0.1
0 mW/mm²
0
C
visual resp. (baseline corr.)
0.8 mm from LED spot
2 Δspks/sec
20 ms
vis. resp. suppression
r_{min}
D
visual response by shank
norm. vis. resp.
inh. intensity (mW/mm²)
PM LED
0.8 mm
0.4 mm
V1 retino. center - 1.2 mm
E
visual resp. suppression
norm. vis. resp. supp.
distance from LED spot (mm)
0.1
0.2
0.3
0.4
0.5 mW/mm²
F
baseline activity by shank
norm. baseline activity
inh. intensity (mW/mm²)
PM LED
0.8 mm
0.4 mm
V1 retino. center - 1.2 mm
G
baseline suppression
norm. baseline supp.
distance from LED spot (mm)
H
summary of lateral spatial effects
vis resp. half-max:
0.73 mm
baseline half-max:
1.1 mm
ephys. spot rad.
0.53 mm
norm. suppression (0.1-0.5 mW/mm²)
distance from spot center (mm)