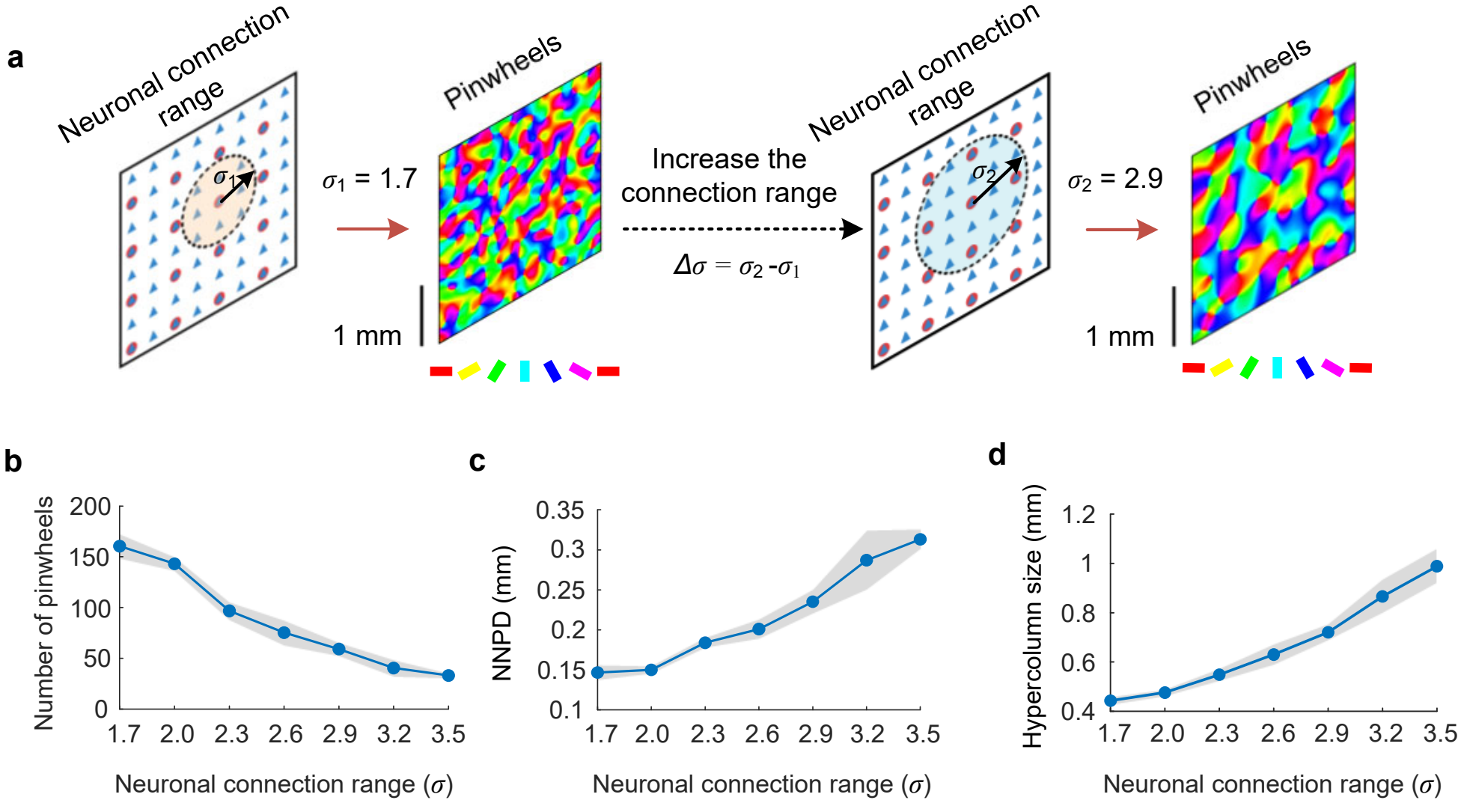
a
Neuronal connection range
σ_1
σ_1 = 1.7
Pinwheels
1 mm
Increase the connection range
$\Delta\sigma = \sigma_2 - \sigma_1$
Neuronal connection range
σ_2
σ_2 = 2.9
Pinwheels
1 mm
b
Number of pinwheels
200
150
100
50
0
1.7 2.0 2.3 2.6 2.9 3.2 3.5
Neuronal connection range (σ)
c
NNPD (mm)
0.35
0.3
0.25
0.2
0.15
0.1
1.7 2.0 2.3 2.6 2.9 3.2 3.5
Neuronal connection range (σ)
d
Hypercolumn size (mm)
1.2
1
0.8
0.6
0.4
1.7 2.0 2.3 2.6 2.9 3.2 3.5
Neuronal connection range (σ)