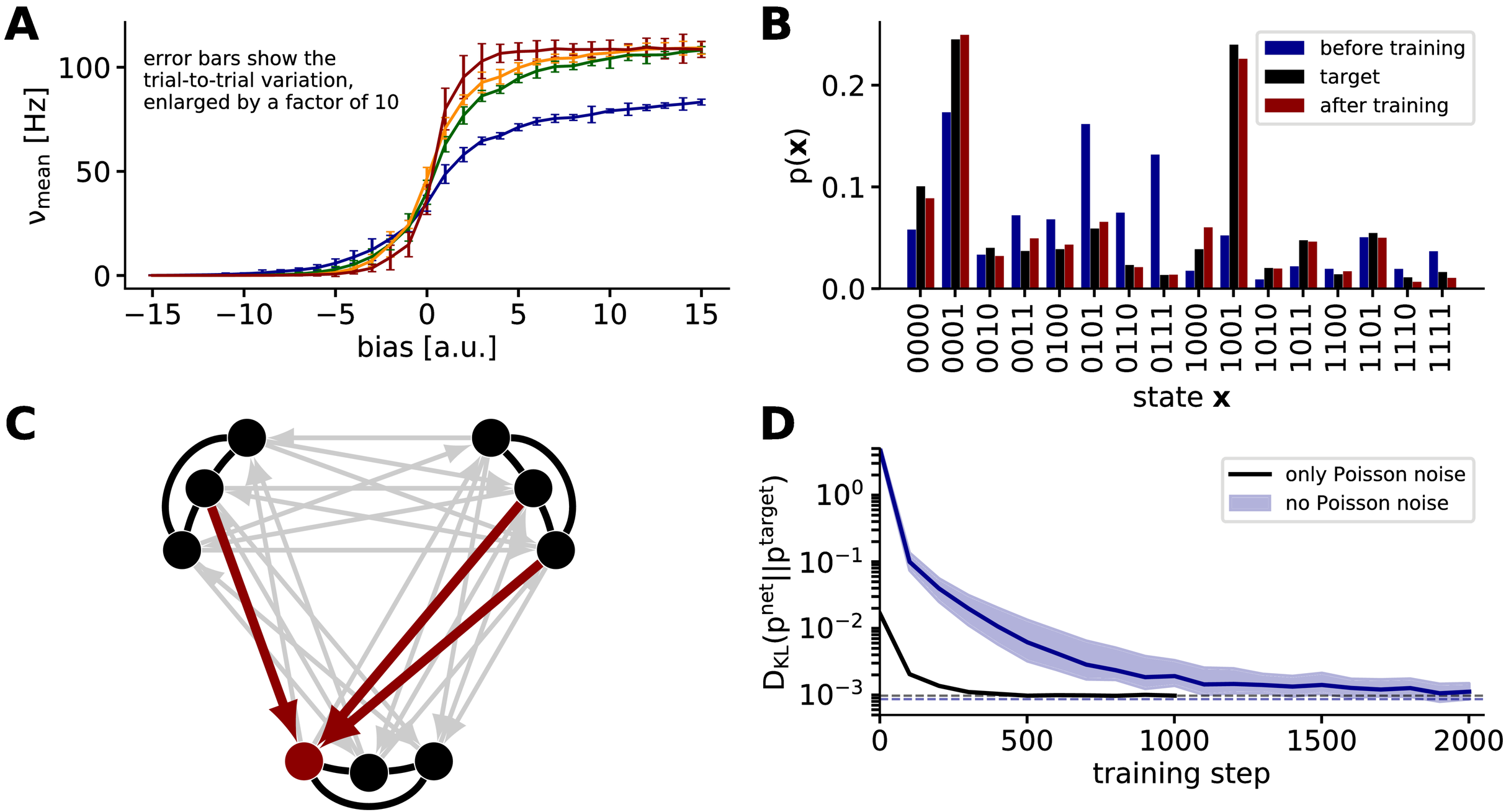
A
error bars show the
trial-to-trial variation,
enlarged by a factor of 10
ν_{mean} [Hz]
100
50
0
−15
−10
−5
0
5
10
15
bias [a.u.]
B
before training
target
after training
p(x)
0.2
0.1
0.0
0000
0001
0010
0011
0100
0101
0110
0111
1000
1001
1010
1011
1100
1101
1110
1111
state x
C
D
only Poisson noise
no Poisson noise
$D_{KL}(p^{net}||p^{target})$
10^0
10^{-1}
10^{-2}
10^{-3}
0
500
1000
1500
2000
training step