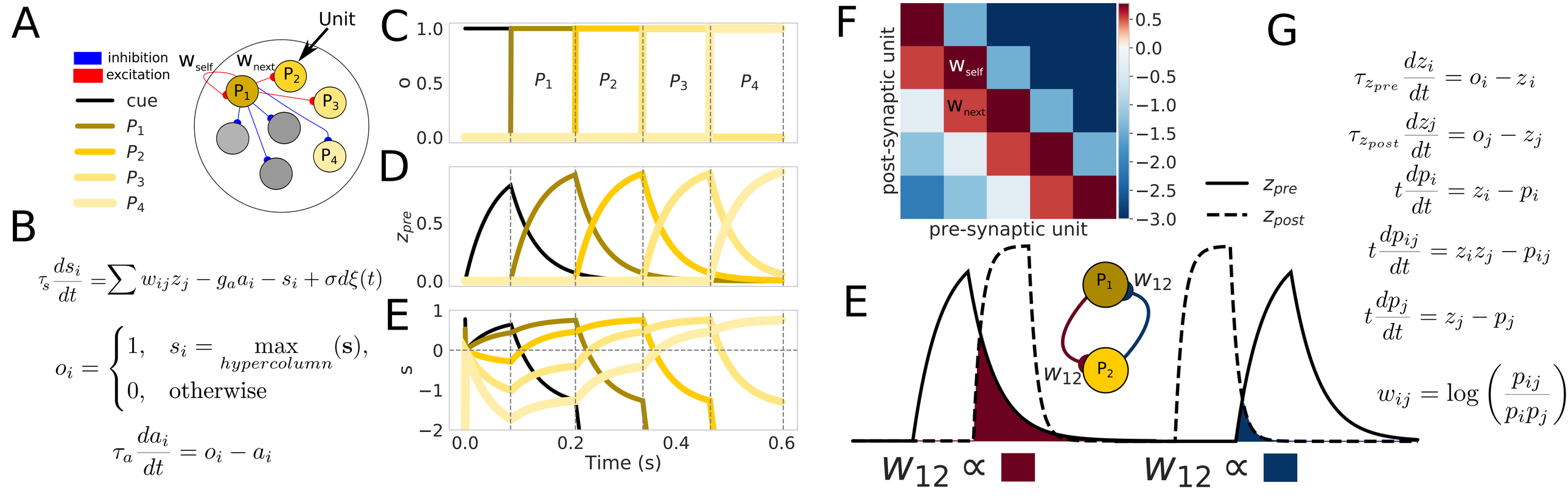
A
inhibition
excitation
cue
P_1
P_2
P_3
P_4
Unit
w_{self}
w_{next}
B
$\tau_s \frac{ds_i}{dt} = \sum w_{ij} z_j - g_a a_i - s_i + \sigma d\xi(t)$
$o_i = \begin{cases} 1, & s_i = \max_{hypercolumn}(\mathbf{s}), \\ 0, & \text{otherwise} \end{cases}$
$\tau_a \frac{da_i}{dt} = o_i - a_i$
C
o
D
z_{pre}
E
s
Time (s)
F
post-synaptic unit
pre-synaptic unit
z_{pre}
z_{post}
$W_{12} \propto$
$W_{12} \propto$
G
$\tau_{z_{pre}} \frac{dz_i}{dt} = o_i - z_i$
$\tau_{z_{post}} \frac{dz_j}{dt} = o_j - z_j$
$t \frac{dp_i}{dt} = z_i - p_i$
$t \frac{dp_{ij}}{dt} = z_i z_j - p_{ij}$
$t \frac{dp_j}{dt} = z_j - p_j$
$w_{ij} = \log\left(\frac{p_{ij}}{p_i p_j}\right)$