1 Mushroom body experiment

		Mine			Paper		
Parameter	**Units**	**Kenyon**	**Horn**	**Decision**	**Kenyon**	**Horn**	**Decision**
C_m	nF		0.09			0.3	
V_{reset}	mV		-70			–	
V_{rest}	mV		-65			–	
V_{thresh}	mV		-55			–	
$e_{rev,E}$	mV		0			0	
$e_{rev,I}$	mV		-92			-92	
τ_m	ms		10				
τ_{refrac}	ms		1				
τ_{syn_E}	ms	1.0	1.0	1.0	2.0	1.0	10.0
τ_{syn_I}	ms	3.0	–	5.0	3.0	–	5.0

Table 1: Neuron parameters

From Pre	**To Post**	**Me**	**Paper**	**Target**
Input	Kenyon	Prob (0.15)	Prob (0.15)	Exc
Input	Horn	A2A (decreasing)	A2A (decreasing)	Exc
Horn	Kenyon	A2A	A2A	Inh
Kenyon	Decision	Rand A2A; 20% High, 80%Low	Rand A2A; 20% High, 80% Low	Exc
Decision	Decision	A2A	A2A	Inh

Table 2: Connectivity stats

From → To	**Me**	**Paper**
Input → Kenyon	Gauss(ω, 20%)	Gauss(4.545, 1.25)nS
Input → Horn	$6.5\omega/(15+n)$	$53.75/(15+n)$nS
Horn → Kenyon	1.925ω	8.75nS
Kenyon → Decision	Gauss(High= ω, 20%), Gauss(High/10, 20%)	G(1.25, 0.25)nS, G(0.125, 0.025)nS
Decision → Decision	0.3ω	75nS

Table 3: Weight generation