

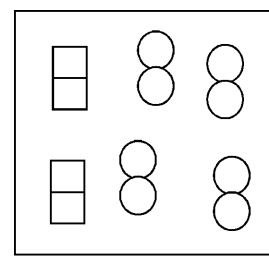
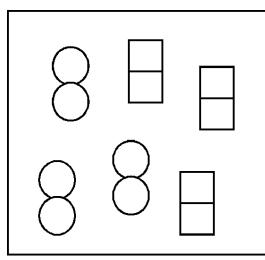
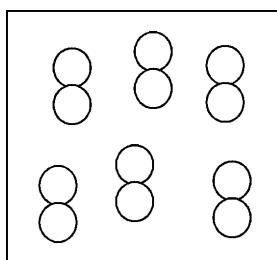
Hill Equation:

$$\log\left(\frac{Y}{(1-Y)}\right) = n_h \log[L] + \log K_D$$

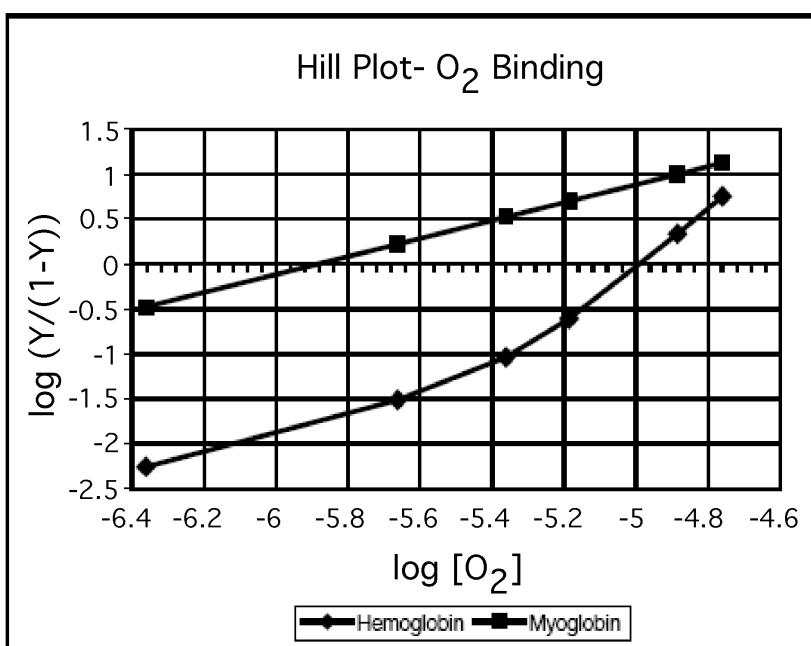
$$Y = \frac{[L]}{K_D + [L]}$$

$$Y = \frac{[L]^2}{K_{D2} + [L]^2}$$

$$Y = \frac{[L]^{n_h}}{K_{D2} + [L]^{n_h}}$$

**Analysis of O₂ Binding to Myoglobin and Hemoglobin**

[O ₂] (μ M)	log[L] (M)	Non Coop (Myo)		Cooperative (Hb)	
		Y	log(Y/(1-Y))	Y	log(Y/(1-Y))
0.43	-6.36	0.250	-0.477	0.005	-2.253
2.17	-5.66	0.625	0.222	0.029	-1.512
4.35	-5.36	0.769	0.523	0.084	-1.037
6.52	-5.18	0.833	0.699	0.198	-0.608
13.04	-4.88	0.909	1.000	0.685	0.338
17.39	-4.76	0.930	1.125	0.850	0.753

**Myoglobin:**

$$n_h = \Delta y / \Delta x =$$

$$K_D =$$

Hemoglobin:

$$n_h = \Delta y / \Delta x =$$

$$K_D^{\text{ave}} =$$