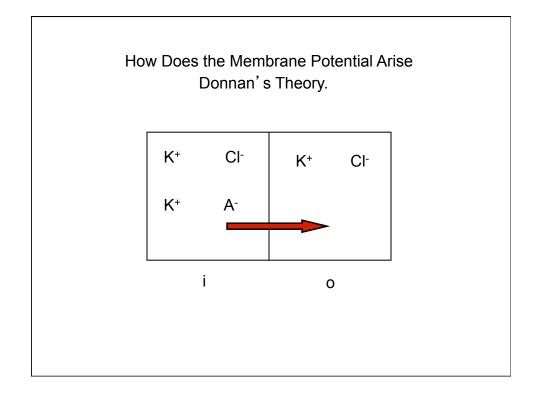
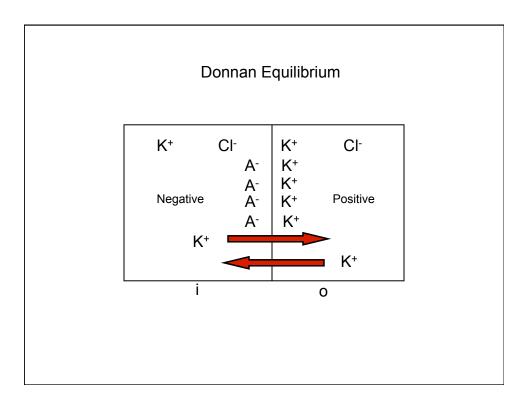
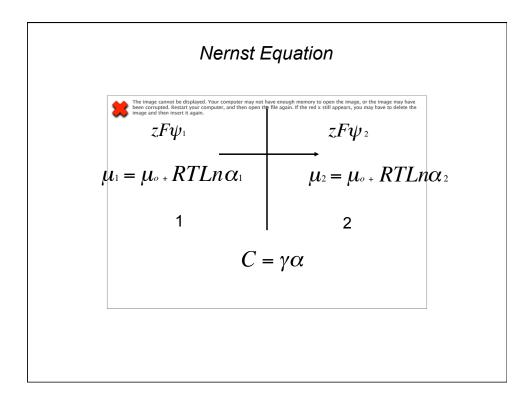


|                | Ionic concentration (mM) |          |          |                       |  |
|----------------|--------------------------|----------|----------|-----------------------|--|
|                | lon                      | External | Internal | Nernst Potential (mV) |  |
| Frog<br>muscle | K                        | 2.25     | 124      | -101                  |  |
|                | Na                       | 109      | 10.4     | +59                   |  |
|                | CI                       | 77.5     | 1.5      | -99                   |  |
| Squid<br>axon  | К                        | 20       | 400      | -75                   |  |
|                | Na                       | 440      | 50       | +55                   |  |
|                | CI                       | 560      | 108      | -41                   |  |
|                |                          |          |          |                       |  |
|                |                          |          |          |                       |  |
|                |                          |          |          |                       |  |







$$\mu_{1} = \mu_{o+} RTLn\alpha_{1} + zF\psi_{1}$$
  

$$\mu_{2} = \mu_{o+} RTLn\alpha_{2} + zF\psi_{2}$$
  
At equilibrium  $\mu_{1} = \mu_{2}$ 

