### Welcome! There are 6 handouts:

- Statistics Overview
- Statistics Tables & Formulae
  - correction: p3, chi-squared test, delete "and no dramatic skew of row/column values"
- Statistics Handout 1
- Statistics loose page 13 of Handout 1
- Statistics Examples 1
- Introduction to Neurobiology

## NST 1B Experimental Psychology Practical 1

About the practical course...
About the statistics component...
and

## Introduction to Neurobiology

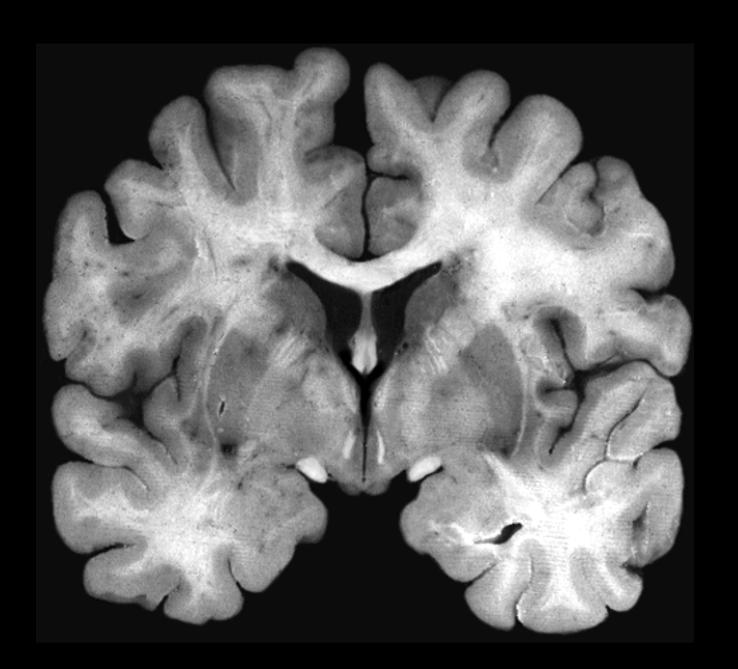
**Rudolf Cardinal** 

9/10 October 2003
Department of Experimental Psychology
University of Cambridge

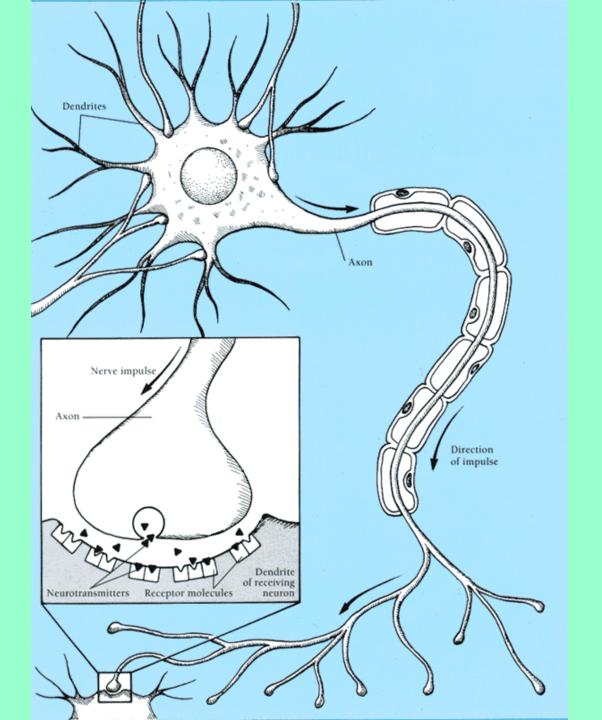


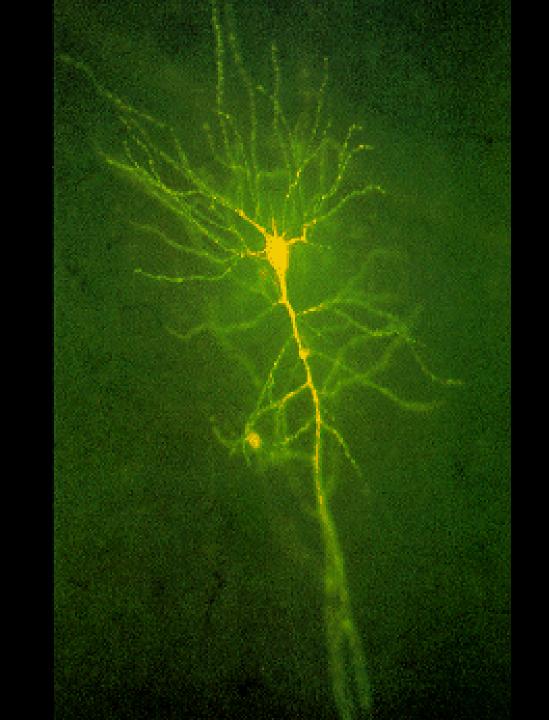










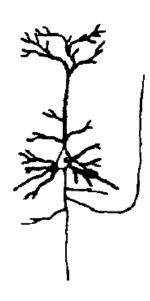


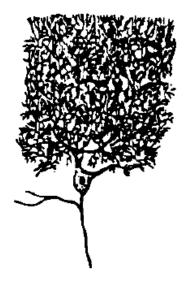


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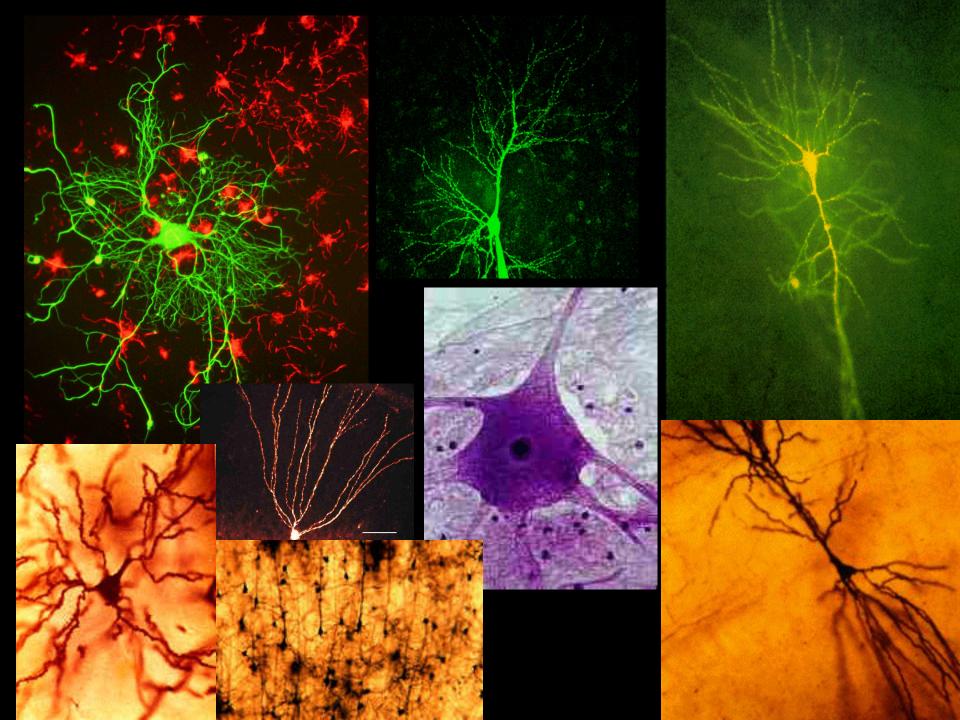
Dorsal root ganglion

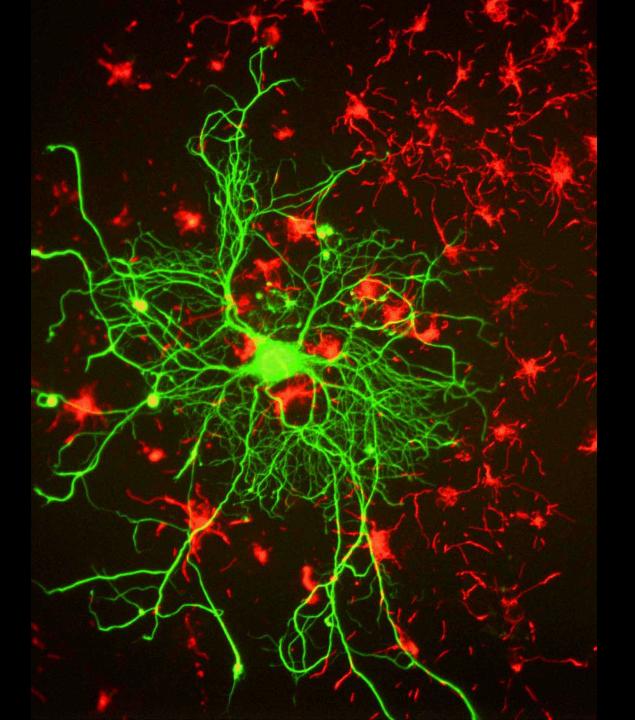
Retinal bipolar cell

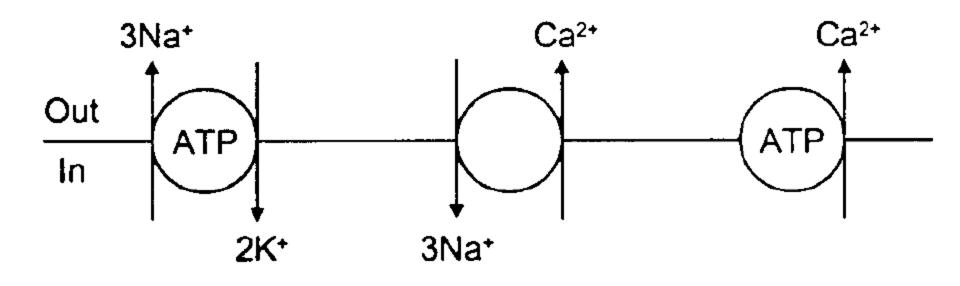
Spinal motor neuron

Hippocampal pyramidal cell

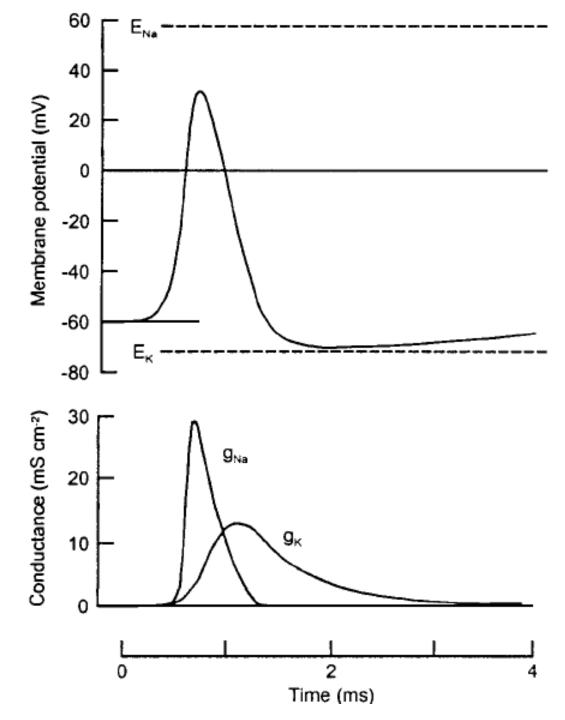
Cerebellar Purkinje cell

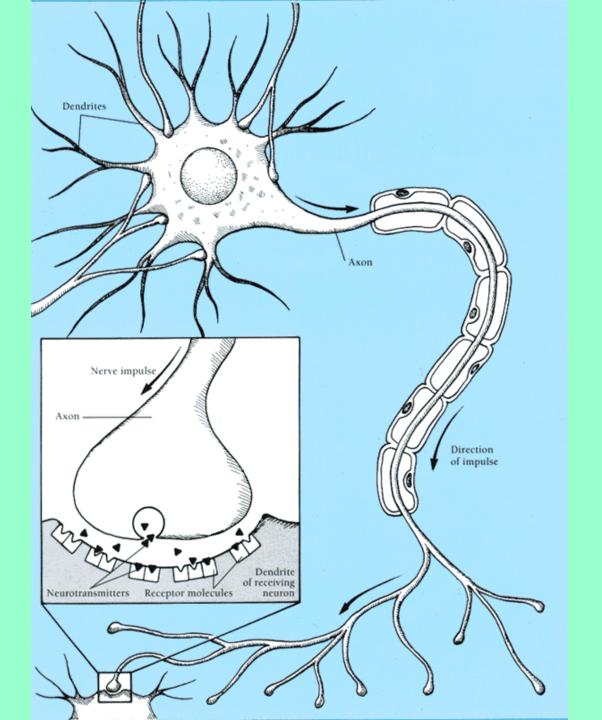


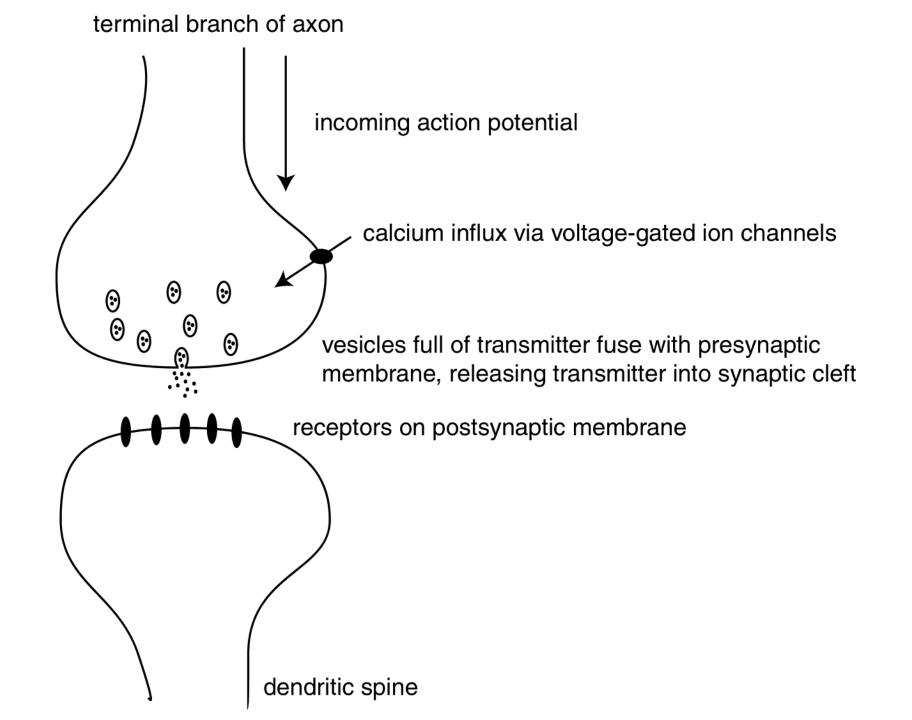




Ion	Internal concentration	External concentration	Valence (z)	Equilibrium potential
Na <sup>+</sup>	15 mM	150 mM	+1	+62 mV
K <sup>+</sup>	150 mM	5.5 mM	+1	-89 mV
Cl	9 mM	125 mM	-1	-71 mV
Ca <sup>2+</sup>	10 <sup>-4</sup> mM	1 mM	+2	+124 mV





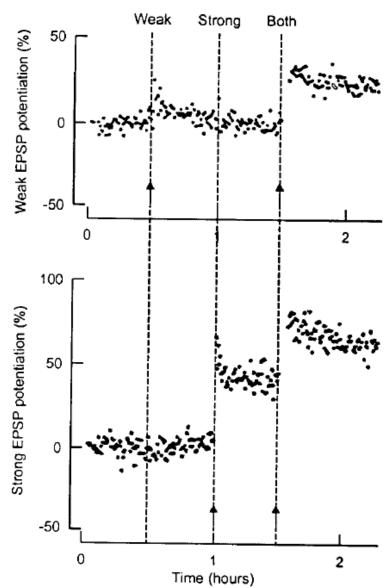




#### Tetanic stimulation

## Weak synapse

# Strong synapse



"When an axon of cell A is near enough to excite cell B, or repeatedly or consistently takes part in firing it, some growth process or metabolic change takes place in one or both cells such that A's efficiency, as one of the cells firing B, is increased."



