Worksheet for lecture 9

- Draw a very simple outline of a posterior view of a person. Add to your drawing a very simple spinal column. (Don't worry about the correct number of vertebrate.) Indicate the name and relative position of the five main regions of the spine. List at least one main landmark or feature of each region. Indicate where spinal cord is located in your drawing.

- Draw a simple diagram of a cross section of the spinal cord. Shade in the grey matter to distinguish it from the white mater. Label the main regions of grey matter on one side. Label the main regions of white matter on that side as well. On the other side, draw and label the nerves that attach to the spinal cord. Indicate the direction in which action potentials propagate in each nerve associated with the spinal cord.

- Draw four simple diagrams showing cross sections of each level of spinal cord. Shade in the grey matter to distinguish it from the white mater in each level.

- Make a list of the main sensations detected by the somatosensory system.

- Draw a simple diagram showing the circuit involved in the stretch reflex from muscle to spinal cord to muscle.

- Draw a simple diagram of a cross section of the spinal cord. Shade in the grey matter. On the left side of your diagram, draw circles in the white matter to indicate the approximate positions of Lissauer's tract, spinocerebellar tracts, spinothalamic tracts and dorsal columns. On the right side of your diagram, draw circles in the white matter to indicate the approximate positions of the lateral and anterior corticospinal tracts. Indicate the direction in which action potentials would most likely travel in each tract.