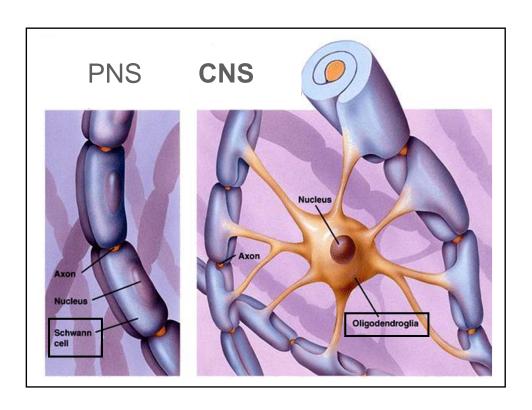
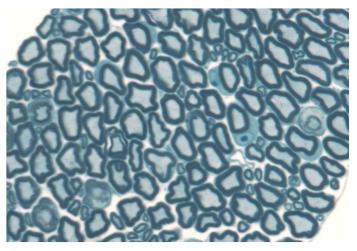
**BSc Neuroscience: Module 1** 

## **Schwann cells**

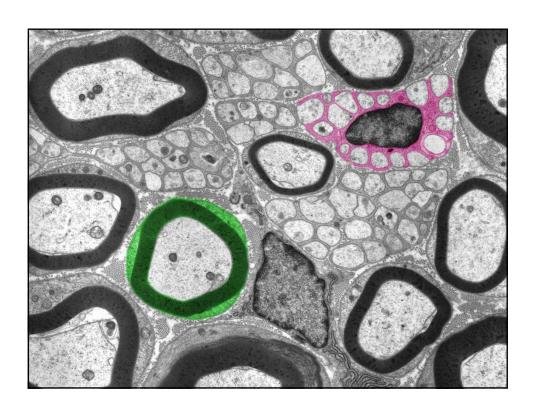
R. Reynolds 2011

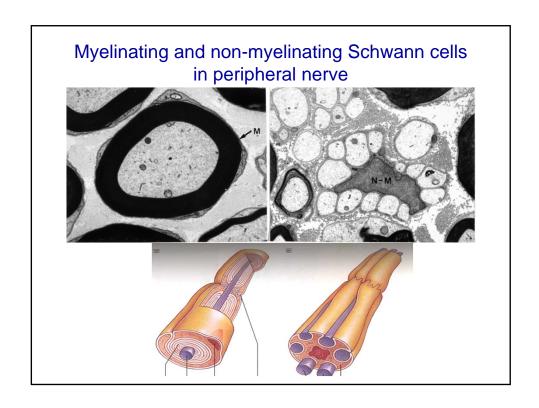


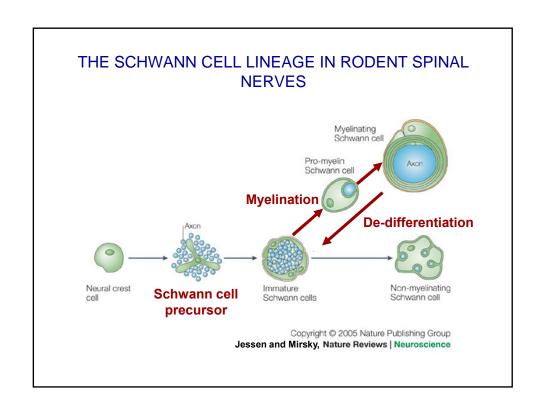
## Schwann cells - myelin producing cells of the PNS

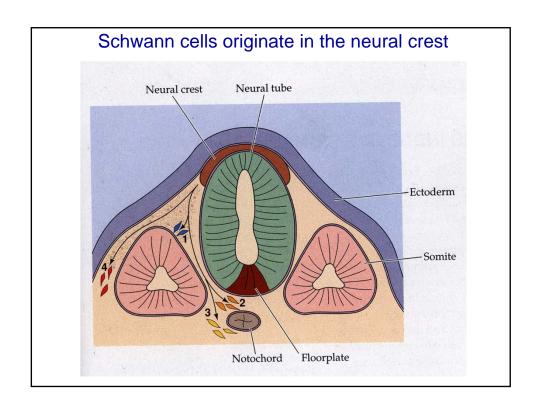


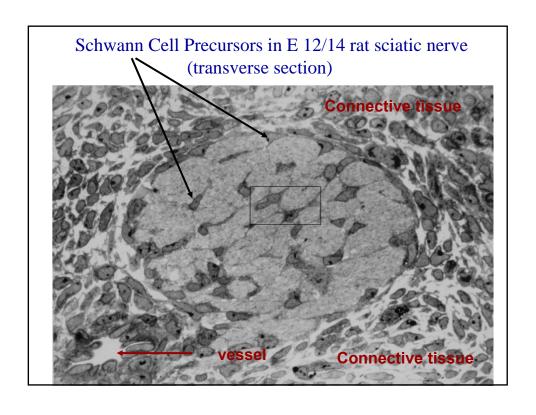
Myelinating schwann cells have a 1:1 relationship with an axon segment, whereas oligodendrocytes produce multiple myelin sheaths

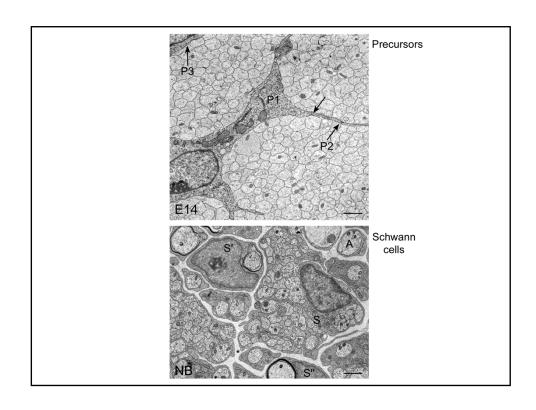


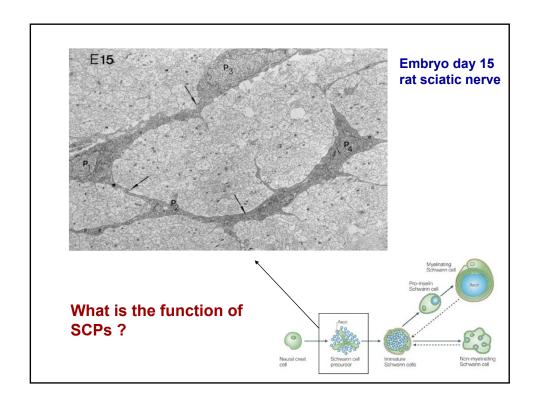


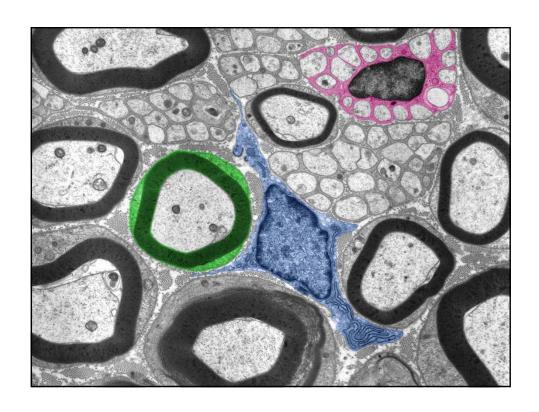






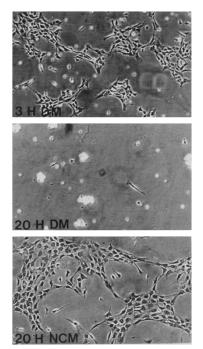


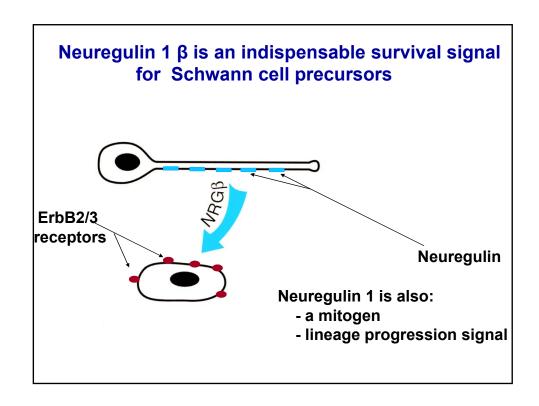


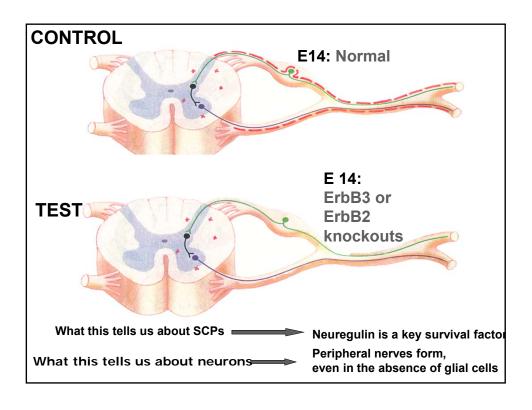


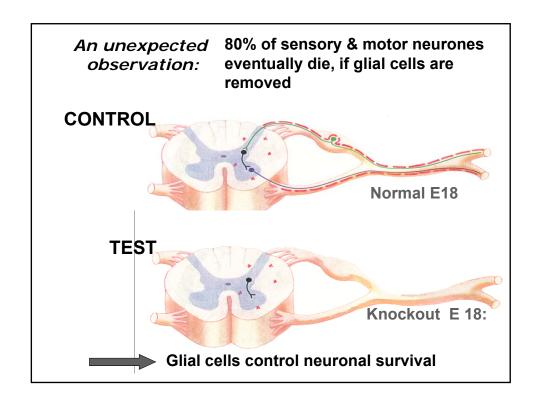
Schwann cell precursors die under normal culture conditions

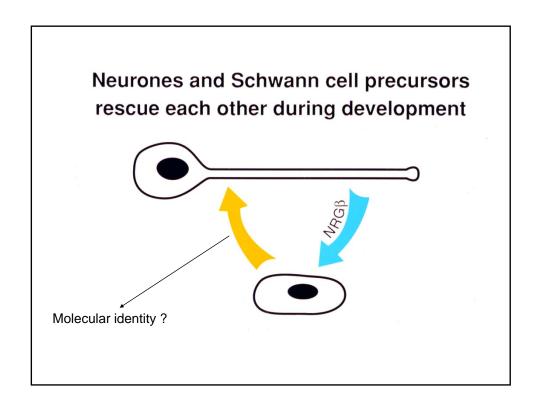
Schwann cell precursors are rescued by neurone-conditioned medium





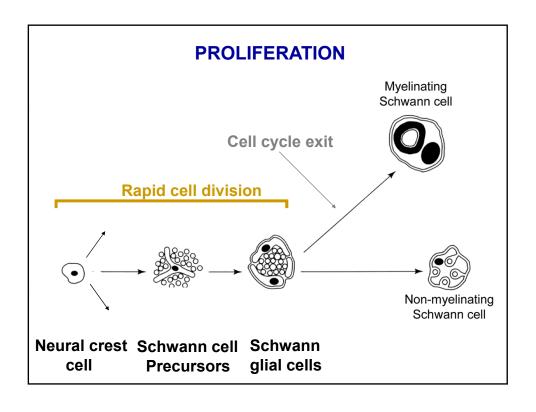


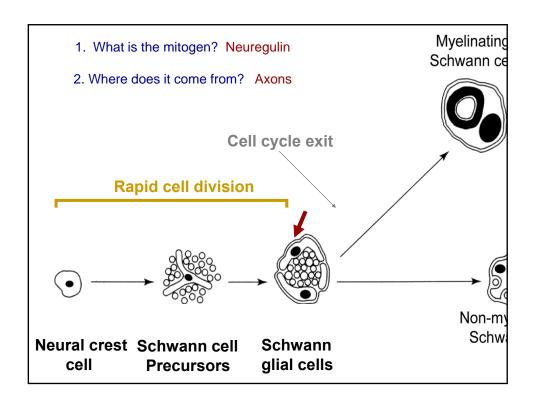


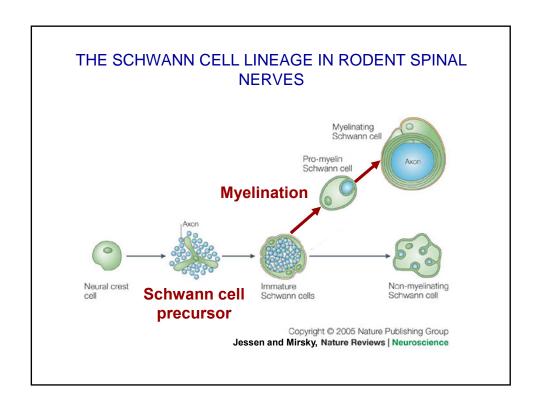


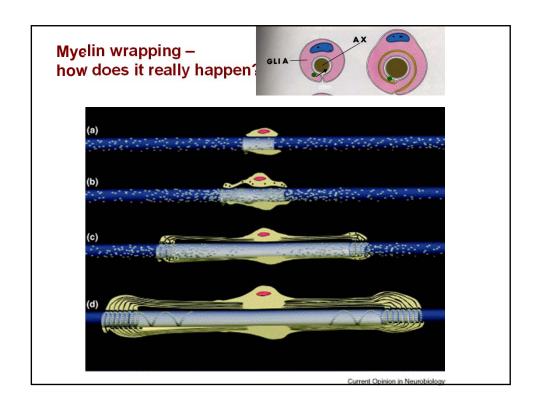
## Schwann cells are generated between E15 and E17

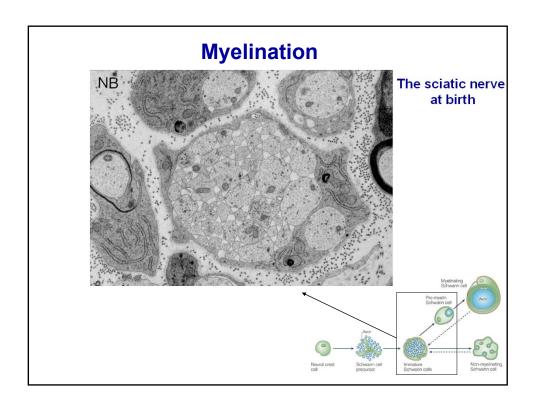
in nerves of the rat hind limb

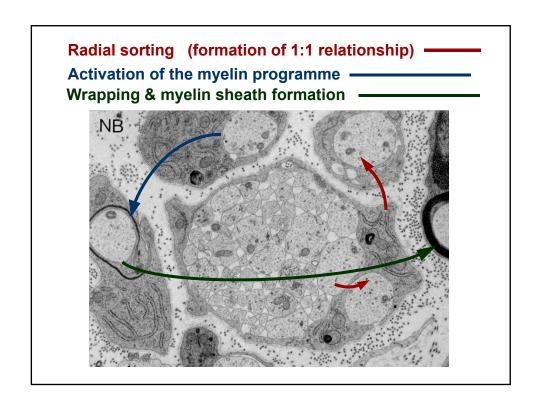


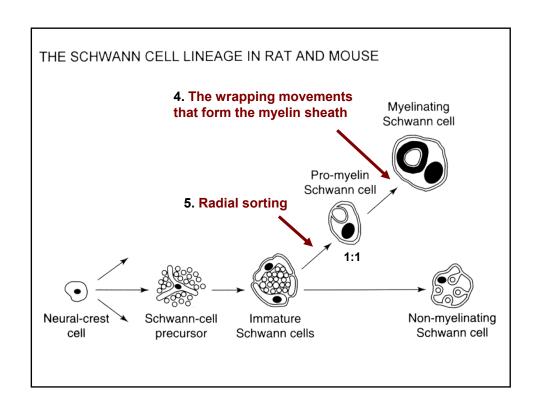


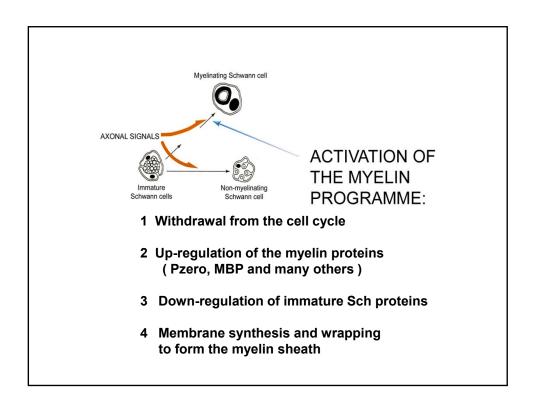


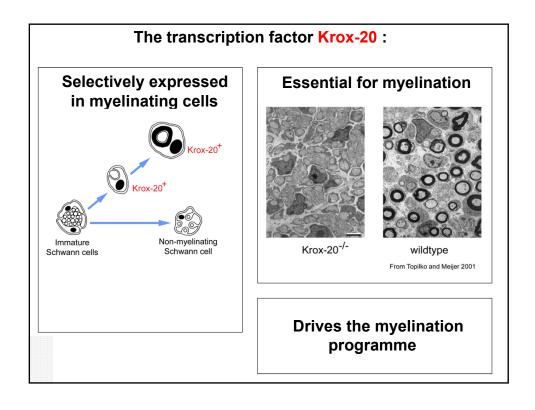


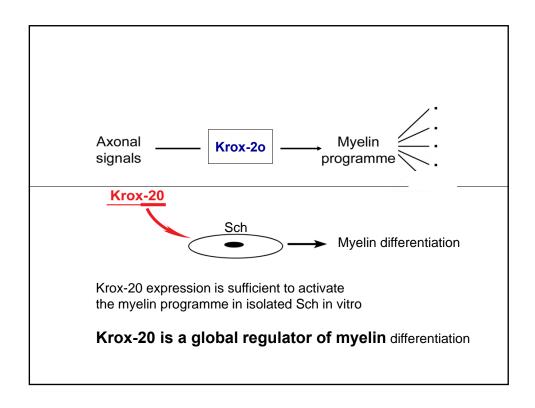


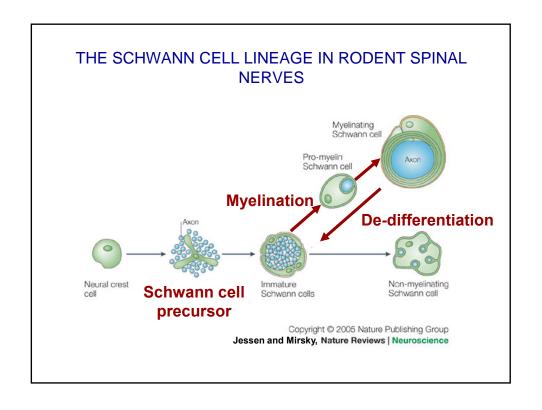












## References

- 1. KR Jessen & R Mirsky (2005) The origin and development of glial cells in peripheral nerves. Nat Rev Neuroscience 6:671-682
- 2. KR Jessen & R Mirsky (2008) Negative regulation of myelination. Glia 56:1552-65.