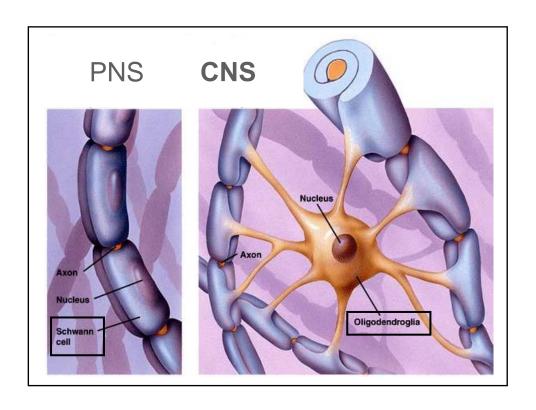
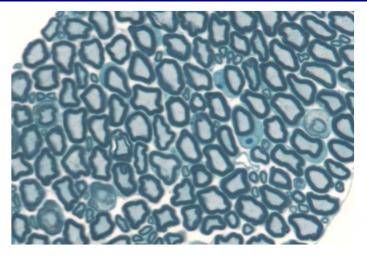
BSc Neuroscience: Module 1

Schwann cells

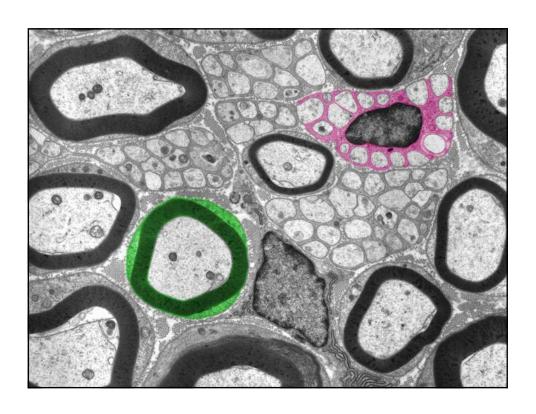
Prof R. Reynolds 2012

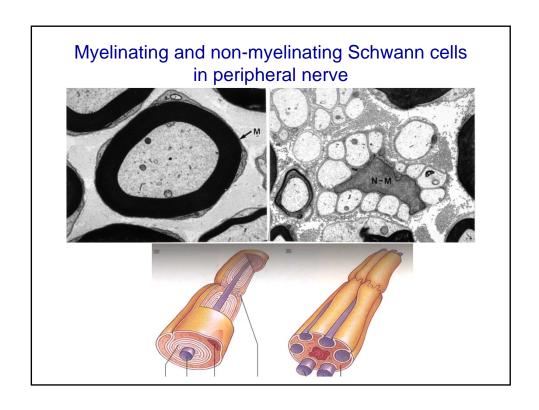


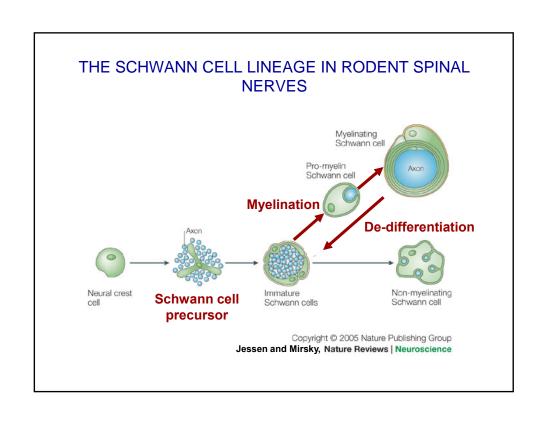
Schwann cells - myelin producing cells of the PNS

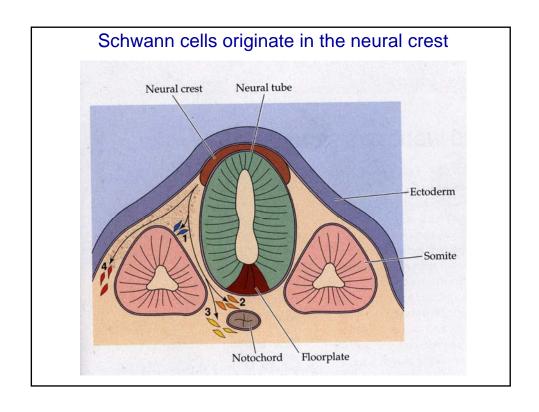


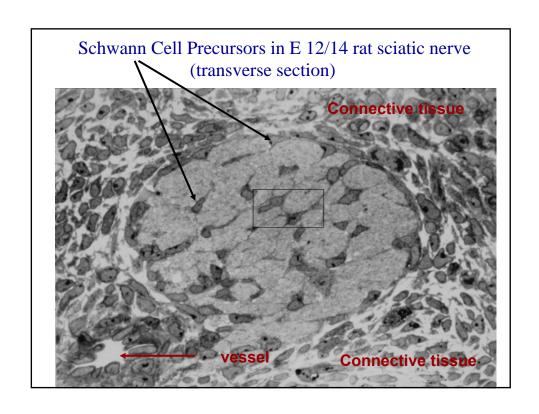
Myelinating schwann cells have a 1:1 relationship with an axon segment, whereas oligodendrocytes produce multiple myelin sheaths

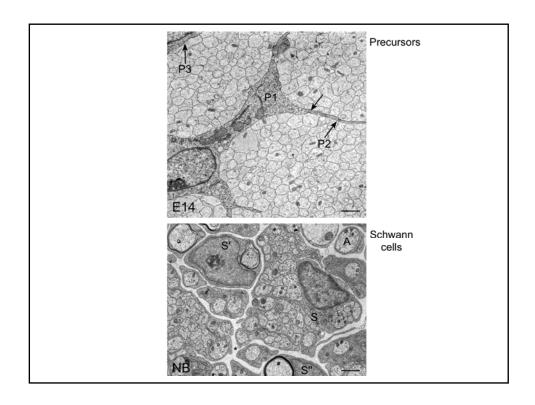


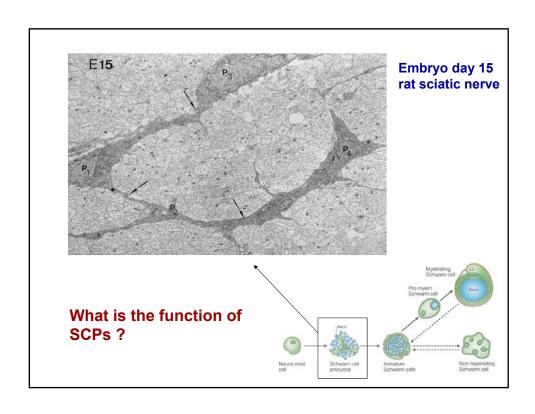


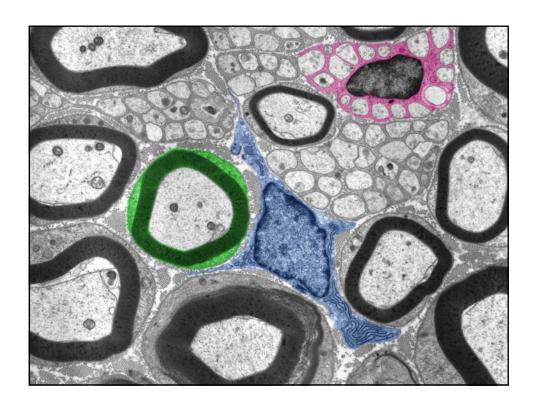


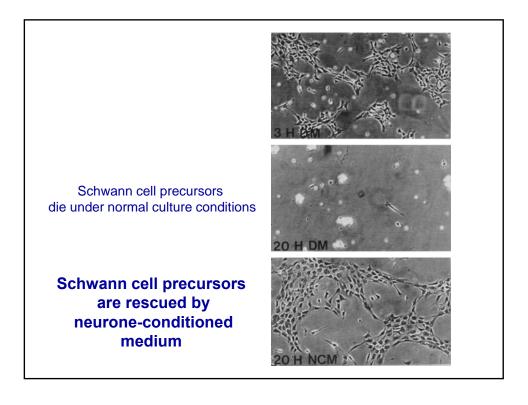


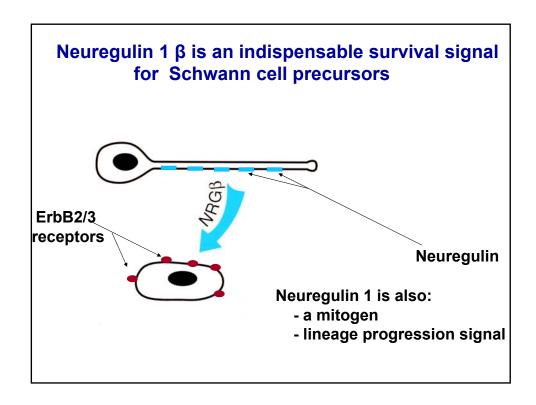


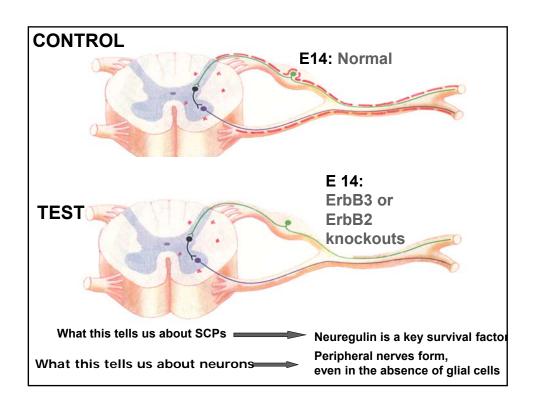


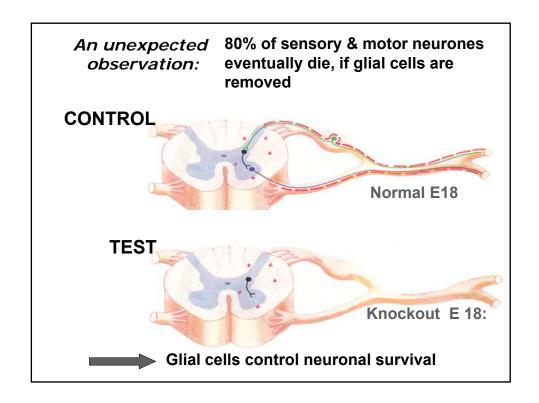


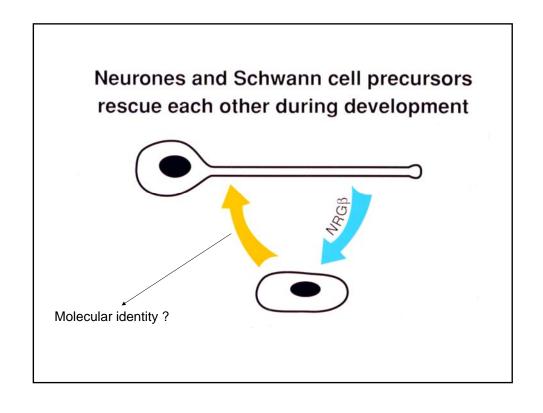






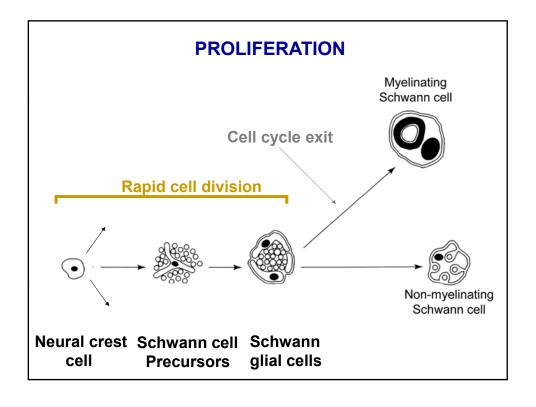


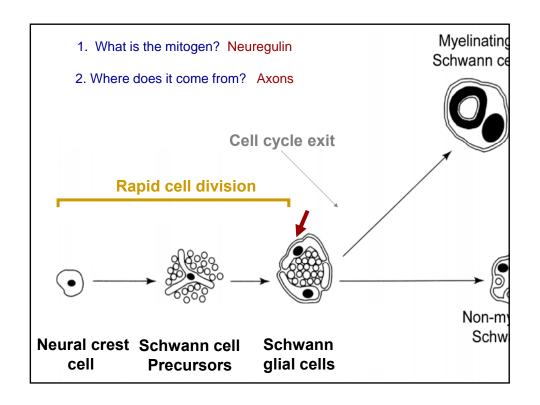


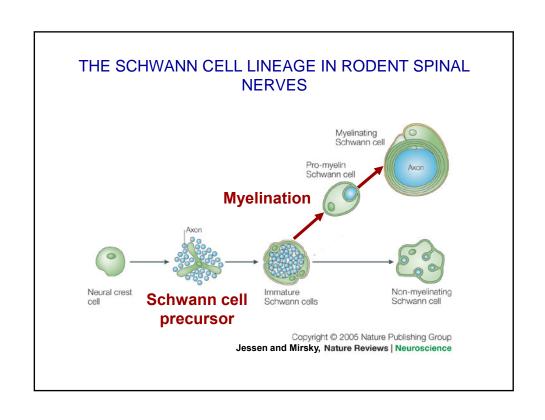


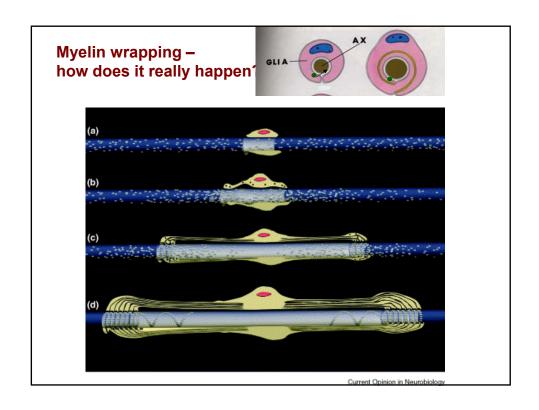
Schwann cells are generated between E15 and E17

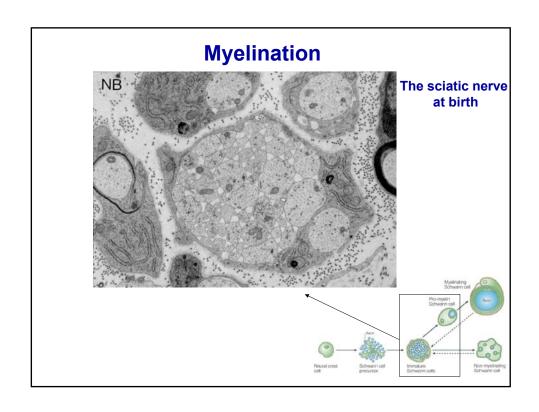
in nerves of the rat hind limb

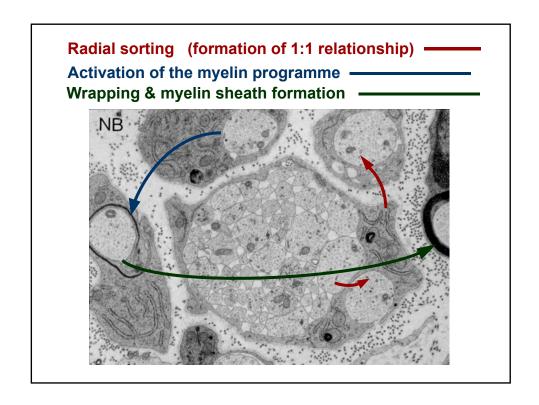


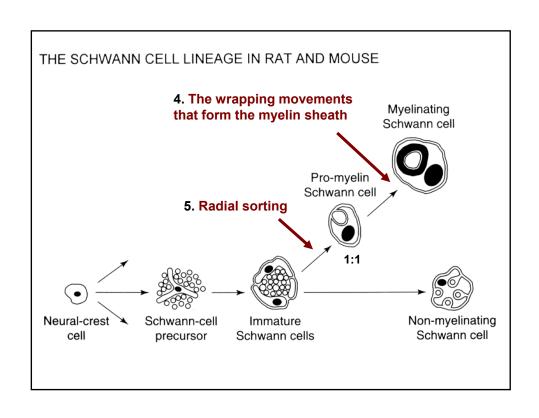


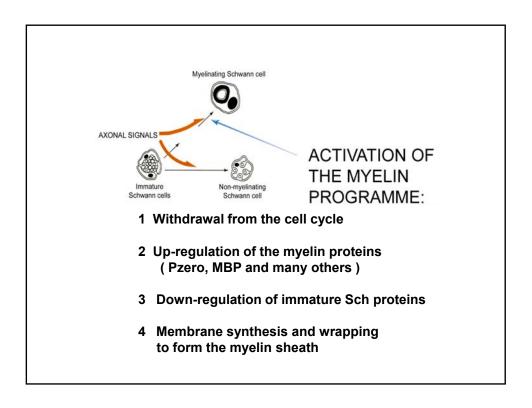




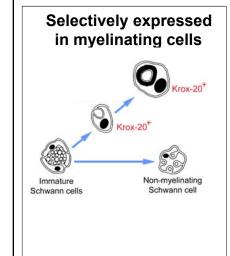


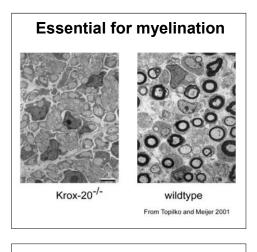




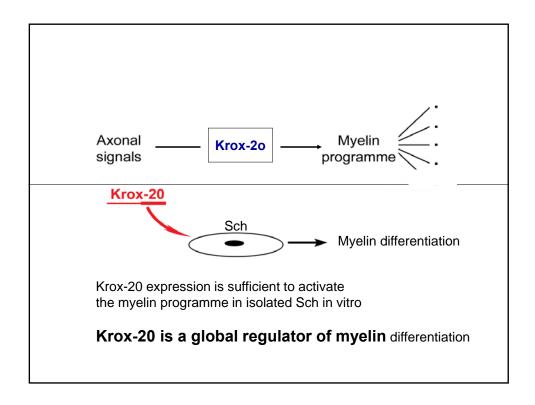


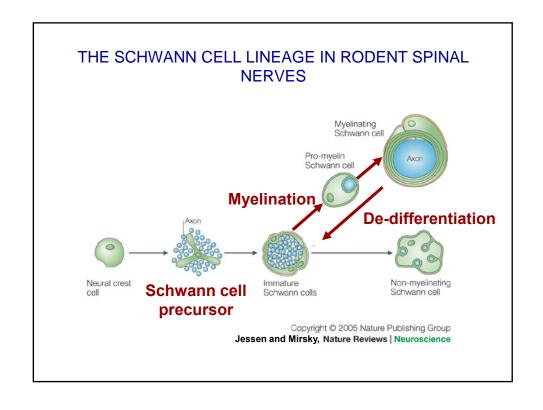
The transcription factor Krox-20:





Drives the myelination programme





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.