

## Module:

Biological foundations of mental health

Week 2:

Building blocks of the brain

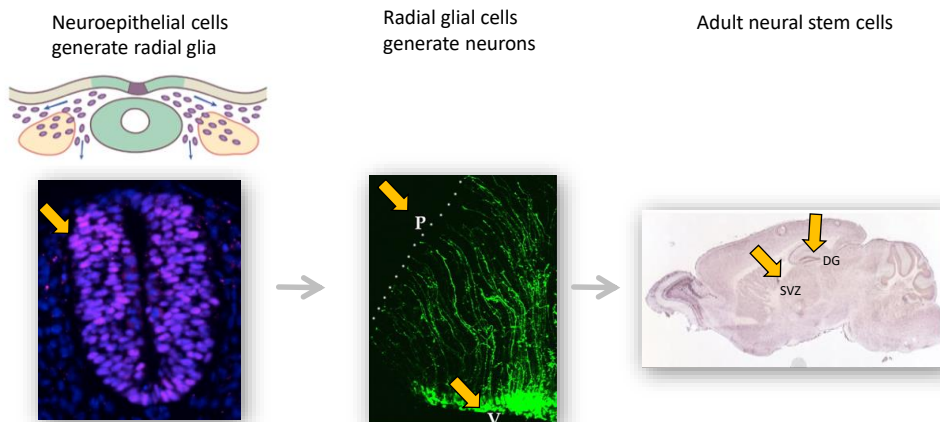


Dr Brenda Williams

**Topic 2**  
**From embryonic neural progenitor**  
**cells to adult hippocampal**  
**neurogenesis**

Part 1 of 4

### Introduction



**Figure 1:** From neuroepithelial cells to adult neural stem cells

## Neuroepithelial cells are embryonic neural stem cells (NSC)

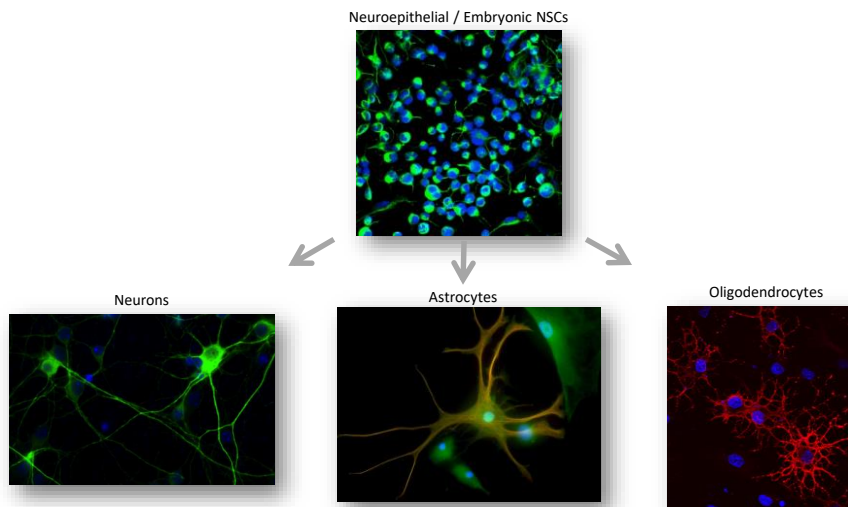


Fig: 2 Neuroepithelial cells are NSCs

## Characterisation of embryonic neural stem cells

Embryonic stem cells are non-specialised cells

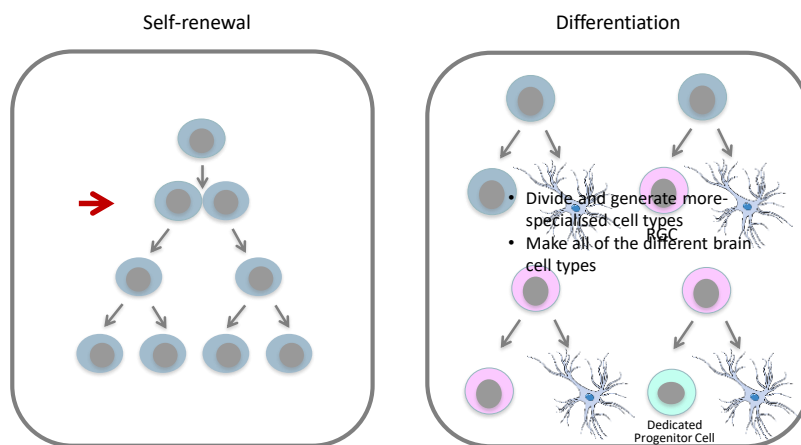


Figure 3: Characterisation of embryonic neural stem cells

## Specialisation during differentiation

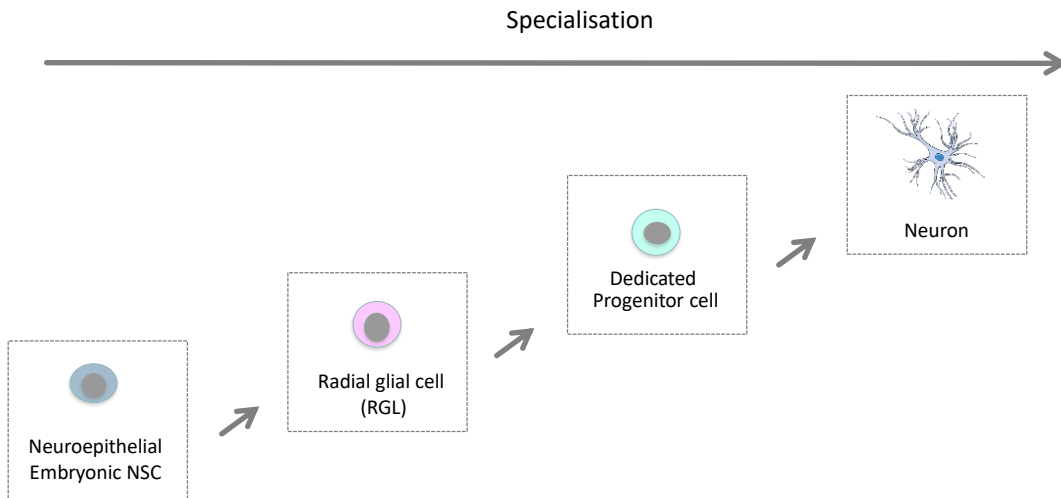


Figure 3: Specialisation during differentiation

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## Lineage relationships

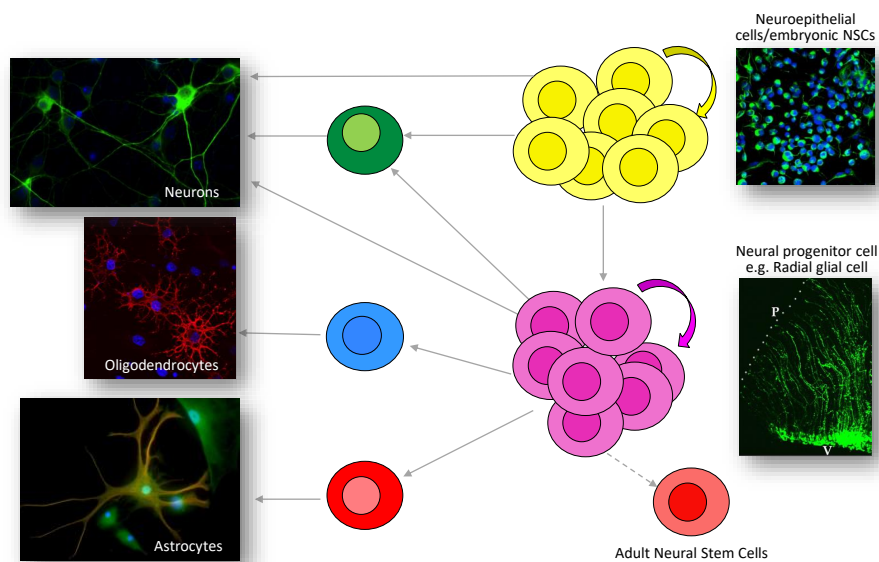


Figure 4: Lineage relationships

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