

Lineage Progression of Neural Stem Cells in the Developing Cerebral Cortex

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Abstract

Neural stem cells (NSCs) in the neocortex generate different subtypes of glutamatergic projection neurons during early development. These NSCs then switch their progenitor properties to produce cortical oligodendrocytes and astrocytes, and GABAergic interneurons for the olfactory bulb (OB). The molecular mechanism that underlies this dramatic switch in NSCs has not been determined. In this talk I will show the lineage progression of cortical neural stem cells and the molecular mechanisms that regulate the lineage switch for the NSCs to switch from generating excitatory neurons to producing inhibitory OB interneurons and cortical glia.