

Totipotent

Pluripotent

Multipotent

Unipotent



Blastomere



Embryonic Stem Cells



Induced Pluripotent Stem Cells (iPSCs)



Mesenchymal Stem Cells



Hematopoietic Stem Cells



Neural Stem Cells

Osteogenesis

Chondrogenesis

Myogenesis

Others

Myeloid

Lymphoid



Bone



Cartilage



Muscle

E.g. Marrow, Fat and Skin

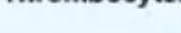
Erythrocytes



Leukocytes



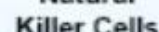
Thrombocytes



B Cells



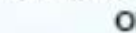
Natural Killer Cells



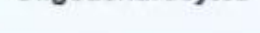
T Cells



Neurons



Oligodendrocytes



Astrocytes



Differentiation and maturation

Somatic Cells

Reprogramming Factors (c-Myc, Klf4, Oct4 and Sox2)

