

Stem Cell differentiation/Manipulation

stem cells can give rise to **progenitor** cells and progenitor cells give rise to **progenitor** cells OR two progenitor cells (or 2 stem cells) this ability is how *stem cells maintain their own population and generate differentiated cells*

pluripotent capable of differentiating into many different cell types

progenitor cells can differentiate into one of several cell types *depending on external factors*

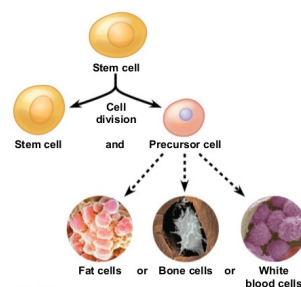
Stem Cell differentiation/Manipulation (cont)

(*iPS*) turns using appeared induced differ- retroviral to Pluripotent ent- vector generally System cells introduces function cells into 4 genes just likee an undiff different- embryonic ere- iated cell but there tiated human are differ- cells (skin) cell ences in these (exper- imental) gene undeif ical) expression fer- and other ent- cellular iated cells functions cells are called

Topic 1 11/08

Stem Cell replication

Figure 16.14



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