

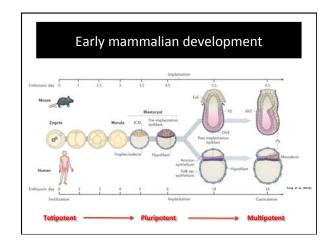
Several definitions

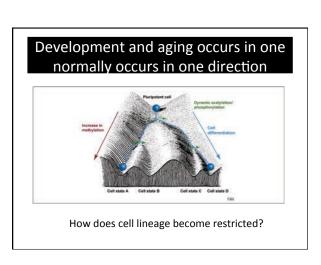
<u>Totipotent</u>: Ability to form all lineages of organism; in mammals only the zygote and the first cleavage blastomeres are totipotent

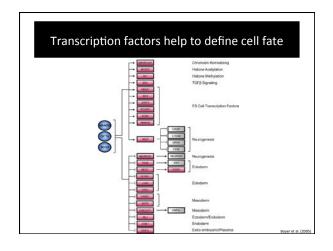
<u>Pluripotent:</u> Ability to form all lineages of body. Example: embryonic stem cells

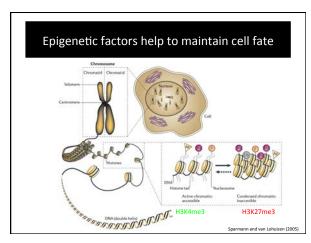
<u>Multipotent:</u> Ability of adult stem cells to form multiple cell types of one lineage. Example: hematopoietic stem cells

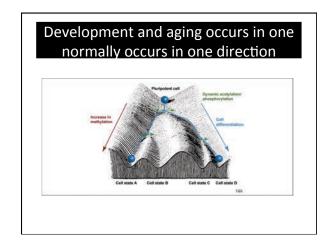
<u>Unipotent:</u> Cells form one cell type. Example: spermatogonial stem cells (can only generate sperm)



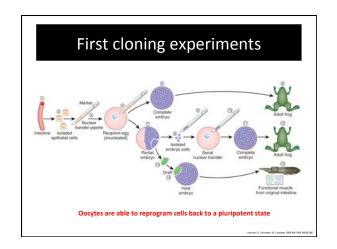




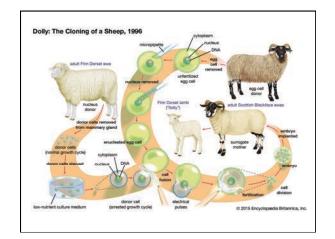


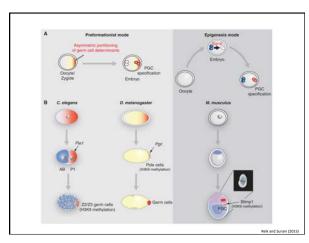


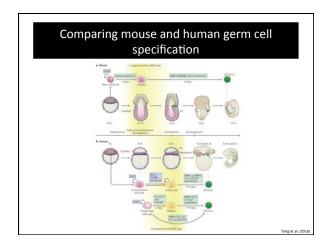


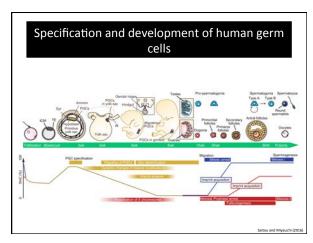


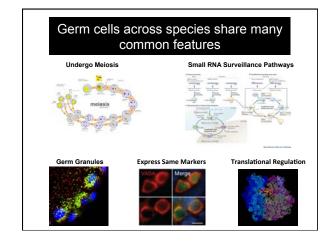


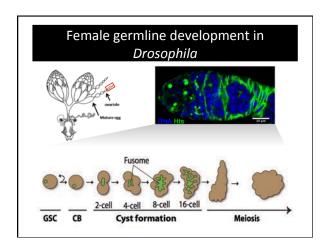












Ways we study germ cells

Gene expression-see what genes are expressed at specific points in germ cell development

Genetics- break genes and see what goes wrong

Biochemistry-determine what proteins interact and function with one another

