

cell lineage and fate pdf

Each specialized cell type in an organism expresses a subset of all the genes that constitute the genome of that species. Each cell type is defined by its particular pattern of regulated gene expression. Cell differentiation is thus a transition of a cell from one cell type to another and it involves a switch from one pattern of gene expression to another.

Cellular differentiation - Wikipedia

Recent advances in the field of immunometabolism support the concept that fundamental processes in T cell biology, such as TCR-mediated activation and T helper lineage differentiation, are closely linked to changes in the cellular metabolic programs.

Metabolic pathways in T cell activation and lineage

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Cell potency is a cell's ability to differentiate into other cell types. The more cell types a cell can differentiate into, the greater its potency. Potency is also described as the gene activation potential within a cell, which, like a continuum, begins with totipotency to designate a cell with the most differentiation potential, pluripotency, multipotency, oligopotency, and finally unipotency.

Cell potency - Wikipedia

The entire intestine is produced as a clone of cells descending from a single cell, the E blastomere, of the eight-cell embryo (Deppe et al., 1978; Sulston et al., 1983). The customary schematic view of the E lineage is shown on the left side of Figure 2. The right side of Figure 2 depicts the more realistic view of the intestinal lineage described by Leung et al (1999), which involves a series ...

The C. elegans intestine - WormBook

This book is divided into two sections. Section A introduces cells, the molecular and structural organizations of prokaryotic and eukaryotic cells, cell division, nucleic acids, colloidal systems and techniques in cell biology.

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Animal development from a single-cell zygote to fertile adult requires many rounds of cell division. During each division, cells complete an ordered series of events that collectively form the "cell cycle".

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