

## ASYMMETRIC CELL DIVISION

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An asymmetric cell division produces two daughter cells with different cellular fates. This is in contrast to symmetric cell divisions which give rise to daughter cells of equivalent fates.

[Dividing cellular asymmetry: asymmetric cell division and ...](#)

Cell division is commonly thought to involve the equal distribution of cellular components into the two daughter cells. During many cell divisions, however, proteins, membrane compartments, organelles, or even DNA are asymmetrically distributed between the two daughter cells. [Asymmetric cell division: recent developments and their ...](#)

Asymmetric cell division in neural progenitor cells is the best understood asymmetric cell division process in mammals [34]. After an initial expansion phase by symmetric division, progenitors undergo asymmetric divisions, giving rise to two daughter cells: one progenitor cell and one cell that either differentiates into a neuron or becomes an intermediate progenitor, which forms two neurons.

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Cell divisions producing two daughter cells that adopt distinct fates are defined as asymmetric. In all organisms, ranging from bacteria to mammals, in which development has been studied extensively, asymmetric cell divisions generate cell diversity.

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Cell divisions producing two daughter cells that adopt distinct fates are defined as asymmetric. In all organisms, ranging from bacteria to mammals, in which development has been studied extensively, asymmetric cell divisions generate cell diversity.

[Mechanisms of Asymmetric Stem Cell Division: Cell](#) Stem cells self-renew but also give rise to daughter cells that are committed to lineage-specific differentiation. To achieve this remarkable task, they can undergo an intrinsically asymmetric cell division whereby they segregate cell fate determinants into only one of the two daughter cells.

[Is asymmetric cell division a prerequisite for cancer ...](#) But if asymmetric cell division does not take place (i.e. if all cells divide symmetrically) than any therapy that kill cancer is in fact targeting the CSC (i.e. there is no point in identifying

**Symmetric vs. Asymmetric Stem Cell Divisions: An ...**  
Abstract. Traditionally, it has been held that a central characteristic of stem cells is their ability to divide asymmetrically. Recent advances in inducible genetic labeling provided ample evidence that symmetric stem cell divisions play an important role in adult mammalian homeostasis.

**Plant Asymmetric Cell Division, Vive la Différence!**  
Although little is known about how asymmetric cell division in plants is regulated, recent discoveries provide a starting point for exploring the mechanisms underlying this process.

**Asymmetric cell division: recent developments and their ...**

The relevance of asymmetric cell division for stem cell biology has added a new dimension to the field, and exciting connections between asymmetric cell division and tumorigenesis have begun to emerge.

**Asymmetric Cell Division - an overview | ScienceDirect Topics**

Asymmetric cell division allows the satellite cell to give rise to one daughter cell that will return to quiescence and one daughter cell that will express myogenin and terminally differentiate into a myoblast with capacity for myofiber fusion (repair) or new fiber synthesis (regeneration).<sup>5</sup> Verification that the satellite cell is a bona fide stem cell has been demonstrated, as a single