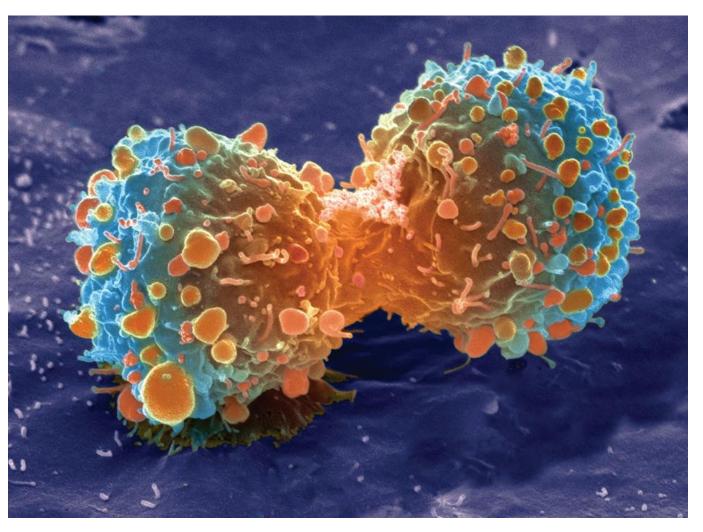
KEY CONCEPT

Many organisms reproduce by cell division.

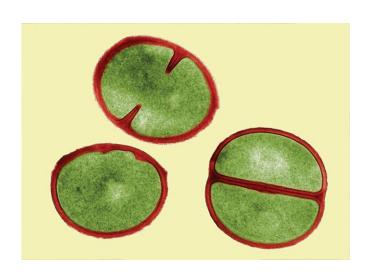


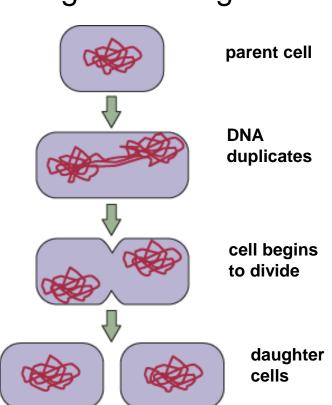
- Binary fission is similar in function to mitosis.
 - Asexual reproduction is the creation of offspring from a single parent.

Binary fission produces two daughter cells genetically

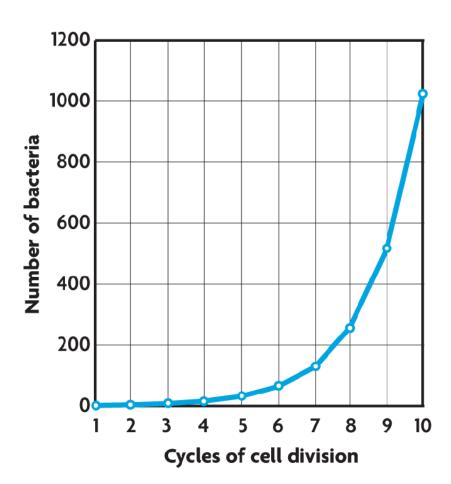
identical to the *parent cell*.

 Binary fission occurs in prokaryotes.

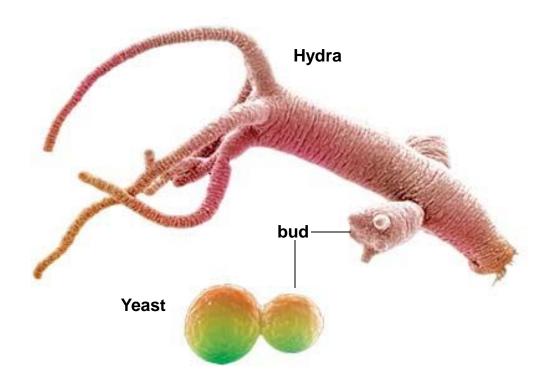




- Environment determines what form of reproduction is most advantageous.
 - Asexual reproduction is an advantage in consistently favorable conditions.
 - Sexual reproduction is an advantage in changing conditions.



- Some eukaryotes reproduce through mitosis.
 - Budding forms a new organism from a small projection growing on the surface of the parent.



 Fragmentation is the splitting of the parent into pieces that each grow into a new organism.

 Vegetative reproduction forms a new plant from the modification of a stem or underground structure on the parent plant.

