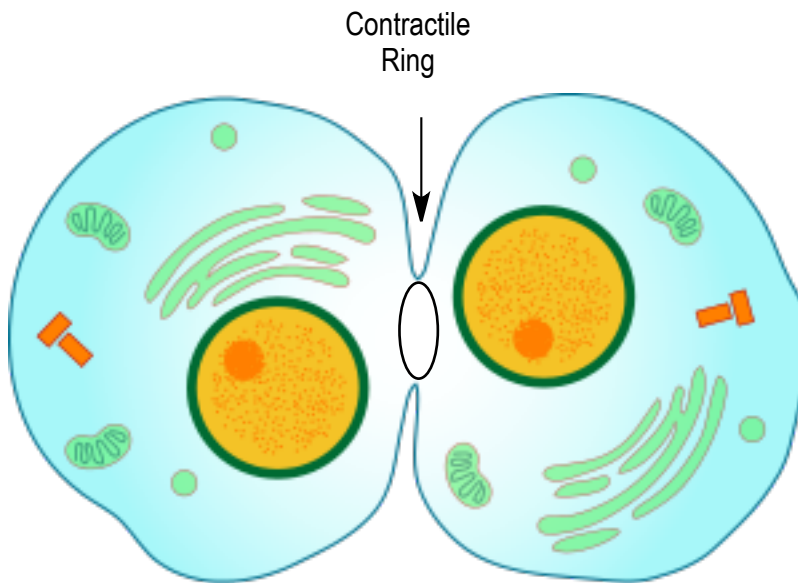


CONCEPT: CYTOKINESIS

- **Cytokinesis** completes M phase by cleaving the cytoplasm into _____ cells
 - **Mitotic spindle** is disassembling in cytokinesis BUT it positions the *cleavage furrow*
 - The **cleavage furrow** is a puckering of the plasma membrane where the cell will split into two
 - Mostly results in symmetrical division – but not always (developing into different cell types)
 - **Contractile ring** is formed during anaphase and is made of actin and myosin filaments
 - It exerts a force on the plasma membrane to assist cytokinesis
 - **RhoA** is a GTPase that triggers contractile ring formation
 - Plant cells need to also create a new _____ after division
 - **Phragmoplast** is a structure formed by microtubules which helps assemble the new cell wall
 - The phragmoplast forms a **cell plate** (cell wall pre-cursor) inside the cell

EXAMPLE: Contractile ring in two dividing cells



PRACTICE:

1. Which of the following structures is responsible for cleaving the cell into two cells?
 - a. Phragmoplast
 - b. Cleavage Furrow
 - c. Contractile Ring
 - d. Cell Plate

2. Which of the following structures is a precursor to a cell plate in plant cells?
 - a. Phragmoplast
 - b. Cleavage Furrow
 - c. Contractile Ring
 - d. Cell Plate