

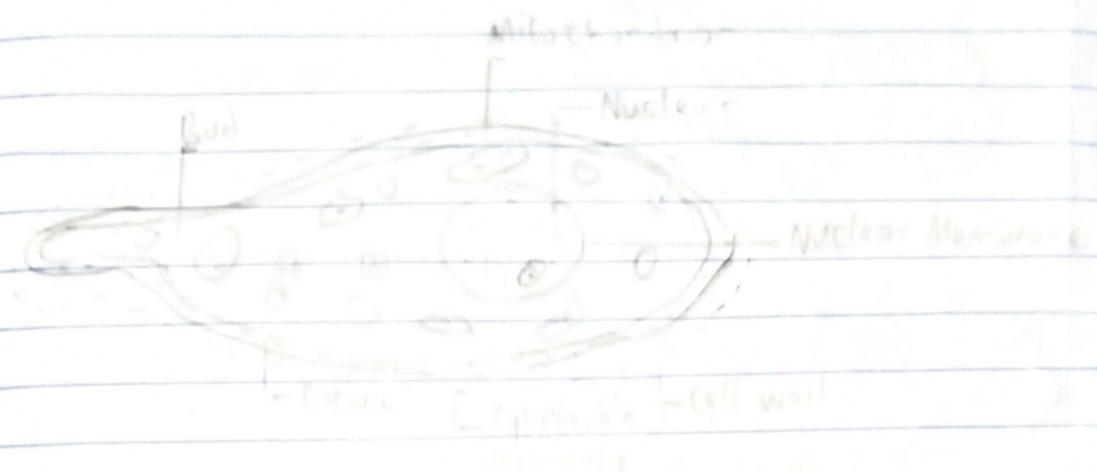
Nice Sushma Chibuzor

MGBS

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Bio 102 Assignment 1

- They are because:
- Fungi are important in food industries - some are eaten by human societies
- They are responsible for the decay of organic matter
- They moderate the spoilage of wood, food, clothes and paper



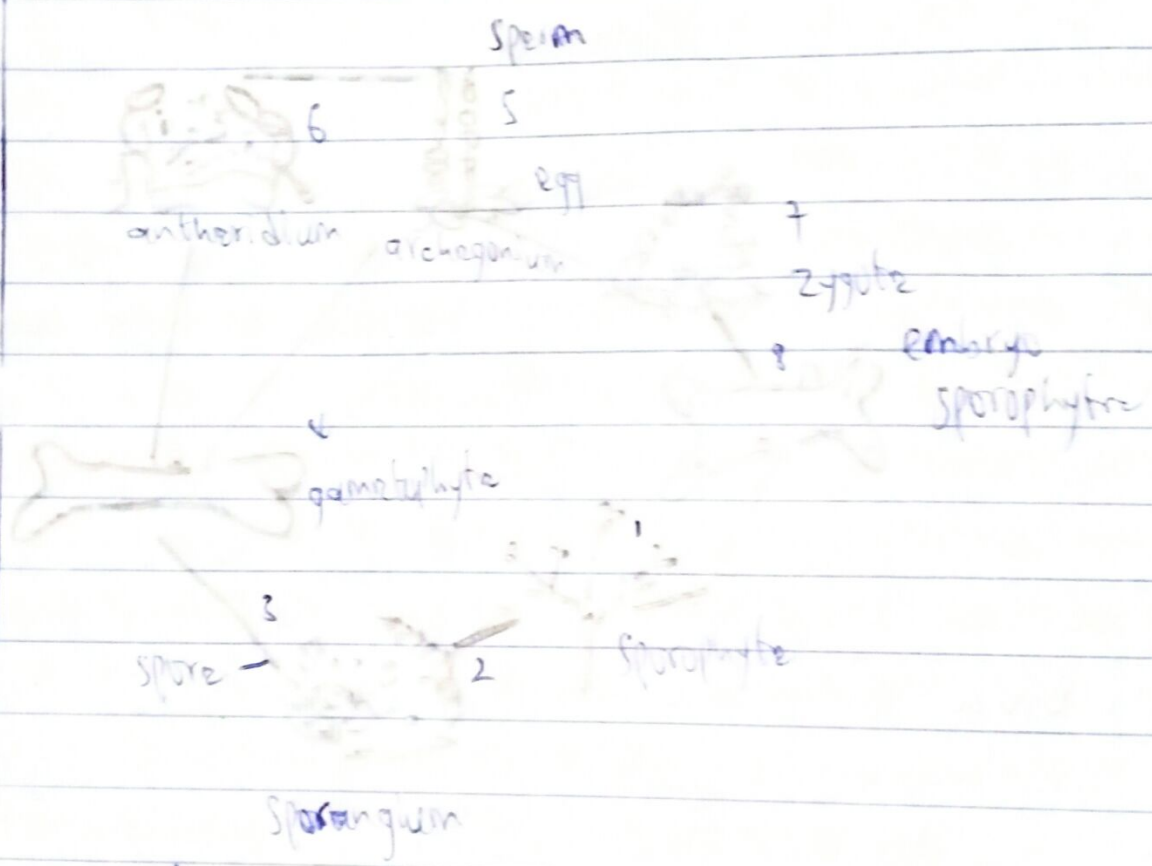
Cell Structure of Yeast Undergoing budding

Sexual Reproduction in *Rhizopus stolonifer*

It occurs when two mating hyphae grow in the same medium. Chemical interaction in the two mating types of hyphae induces growth perpendicular to the hyphae in opposite directions. These growths are delimited by a wall such that many nuclei are isolated in what is called a gametangium. The two gametangia fuse and a zygote is formed which may undergo prolonged dormancy. The nuclei in the zygotes fuse in twos and undergo meiosis independently. The zygote germinates under favourable conditions to produce a fruiting which at maturity liberates the haploid spores.

The adapt by:
 They have definite structures for water and nutrient absorption from the soil.
 The aerial portion has some modifications which prevents excessive loss of water. Openings are available on the aerial parts of the plant to permit elimination of water and exchange of gases between the internal parts of the plant and the atmosphere.

- a) Eustele: The vascular bundles are discrete, concentric collateral (bundles of Xylem and phloem)
- b) Atactostele: The vascular bundles are scattered.
- c) Siphonostele: The stele is a cylinder enclosing a parenchymatous pith.
- d) Dictyostele: Dissected conducting cylinder.



A Sketched Life Cycle of Psilotum