



nuclei.
Fig. - Filamentous thallus.

Thallus organization of fungi.

Two types of Thallus organization of fungi:

- (1) Unicellular fungi.
- (2) Filamentous fungi.

Unicellular fungi: - The thallus is more or less a spherical, single-celled structure which are found in some of the lower fungi such as chytrids. At the time of reproduction, it becomes a reproductive unit. The latter produces the asexual or sexual cells. Such fungi are called **holocarpic**. In them, the vegetative and reproductive stages do not occur together in the same thallus.

Plasmodiophora has a vegetative phase consisting of a naked, multi-nucleate amoeboid mass of protoplasm. It is termed as **Plasmodium**. The protoplast of the diploid Plasmodium cleaves to form the resting spores. The yeasts which are related to the filamentous forms, also have a unicellular thallus. In the unicellular holocarpic forms the **mycelium is absent**.

October '21						
Su	Mo	Tu	We	Th	Fr	Sa
31					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

NOTES



Fig - Unicellular holocarpic thalli

Filamentous thallus:- Filamentous thallus originates through the germination of a spore. The spore germinates as it lands on a suitable substratum where, other conditions of life are also favourable. Filamentous thallus constitutes the thallus and is technically called a **hypha**. The spores of most of the fungi, however, give rise to a fluffy thallus consisting of a cottony mass of fine branched filaments. These long, fine filaments are called **the hyphae**. Some of these hyphae, at a certain stage of maturity extend into the air and bear the reproductive bodies. The rest spread over one within the substratum and continue the normal activities. Such fungi is called **eucarpic**; collectively the hyphae comprise the vegetative body (thallus) of a fungus which is called **mycelium**. The hyphae is thus a structural unit of mycelium.

NOTES

november '21

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▼	1	2	3	4	5	6
▼	7	8	9	10	11	12
▼	14	15	16	17	18	19
▼	21	22	23	24	25	26
▼	28	29	30			