## Homothallism in fungi :-

Homothallism is the phenomenon in those fungi which are self-fertile and self-compatible. Such fungi are known as Homothallic fungi. The thallus in these fungi is of one and single strain, thus two mycelia developing from a single spore are capable of interacting and forming diploid structure after syngamy.

These fungi are of two types -

(i) Primary Homothallic fungi
(ii) Secondary Homothallic fungi.

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(i) Primary homothallic fungi - Primary homothallic fungi are those in which spores are uninucleate and the nucleus has only one genotype. Example of such fungi are Ustomycies, Puccinia.

(ii) Secondary Homothallic fungi - In these fungi, nuclei of compatible mating types are present in each spore. In other words the spores of these fungi are heterothallic and therefore sexual reproduction can take place in mycelia produced from a single spore under laboratory conditions in artificial cultures.

Essen urged to use the terms well. According to him monoecious fungi are those in which an individual can act as donor and recipient of nucleus while dioecious ~~for the fungi as well. A/c to him, monoecious fungi are those in which an individual~~ fungi are those in which individuals can either act as donor or recipient only.

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