**Classification of fungi :**

**Classification :** is the systematic arrangement of organisms into groups based on specific standards .

**Standard Endings :**

**Division ………....mycota**

**Sub division …….mycotina**

**Class …………….mycetes**

**Subclass………….mycetidae**

**Order ……………ales**

**Family …………..aceae**

**Writing scientific name:** The first letter of the genus written with a capital letter , while the species with small letter, The scientific name written in *italics* or underlined .ex: aspergillus niger

**Aspergillus niger OR Aspergillus niger**

**The fungal characteristics that use in Classification :**

* **Cell wall**
* **The cell wall chemical component**
* **Somatic phase**
* **Reproduction**
* **The structural that formed by fungi**
* **Fruiting bodies**
* **Spores**

**Fungal Webster , Weber and Hibbett Classification(2007):**

1. **Kingdom : protozoa (protista)**

Phylum : myxomycota

Phylum : plasmodiophoromycota

1. **Kingdom : Chromista (Stramenopila)**

Phylum : Hyphochytriomycota

Phylum : Labrinthulomycota

Phylum : Oomycota

1. **Kingdom : Fungi**

Phylum : Chytridiomycota

Phylum : Zygomycota

Phylum : Ascomycota

Phylum : Basidomycota

Phylum : Deutromycota



Deutromycota

Figure (1) kingdom fungi

 **Kingdom : protozoa (protista)**

1. No cell wall so also called Gymnomycota
2. Phagotrophic nutrition .
3. Somatic phase are **plasmodium** .
* **Plasmodium:** protoplasmic mass Similarity Amoeba , multinucleatedalsocalled true slime mold.
* **Pseudo Plasmodium :** Accumulation of Amoeba cells surrounded by membrane , also call cellular slime mold.

  

B

A

 Figure (2) (A)plasmodium (B) Pseudo Plasmodium

 **Type of plasmodium**

1. **Protoplasmodium** : microscopic,slow movement,produce one sporangium .
2. **Aphanoplasmodium** : grow as Protoplasmodium at the beginning , and then it will change into net work .
3. **Phaneroplasmodium** : grow as Protoplasmodium at the beginning then it will change into granular and more density plasmodium . it is visible .

 

 Figure (3) type of plasmodium