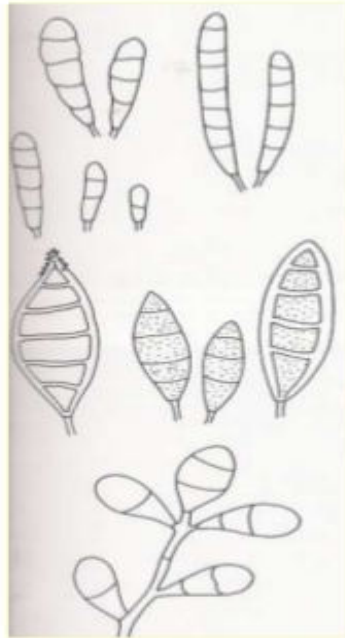


Dermatophytosis

Macroconidia of dermatophytes



- Trichophyton
- Microsporum
- Epidermophyton

Fungal infections

1. **Superficial mycosis.**
2. **Coetaneous mycosis: Dermatophytoses.**
3. **Subcutaneous mycosis.**
4. **Systemic mycosis.**
5. **Opportunistic mycosis.**

Dermatophytosis

- Cutaneous fungal infections which infect the keratinized tissues (living tissues) of the body, ex: skin, hair & nail.
- Common in children especially school age (2-12years).

Dermatophytosis

Symptoms:

- Skin lesions called **Tinea** (or **Ring worm**).
- The lesion is scaly and cause itching.
- The margins are red or gray containing active fungus.
- In the beginning it is mild then it cause toxic reaction of the skin.



Dermatophytosis

Transmission of infection:

- 1-By using personal stuff (e.g. Clothes).
- 2-House pets (cats and dogs).
- 3-Common in livestock animals (horses, sheep, and cows).
- 4-From the soil.

Dermatophytosis

- Dermatophytosis infections caused by dermatophytes fungi.

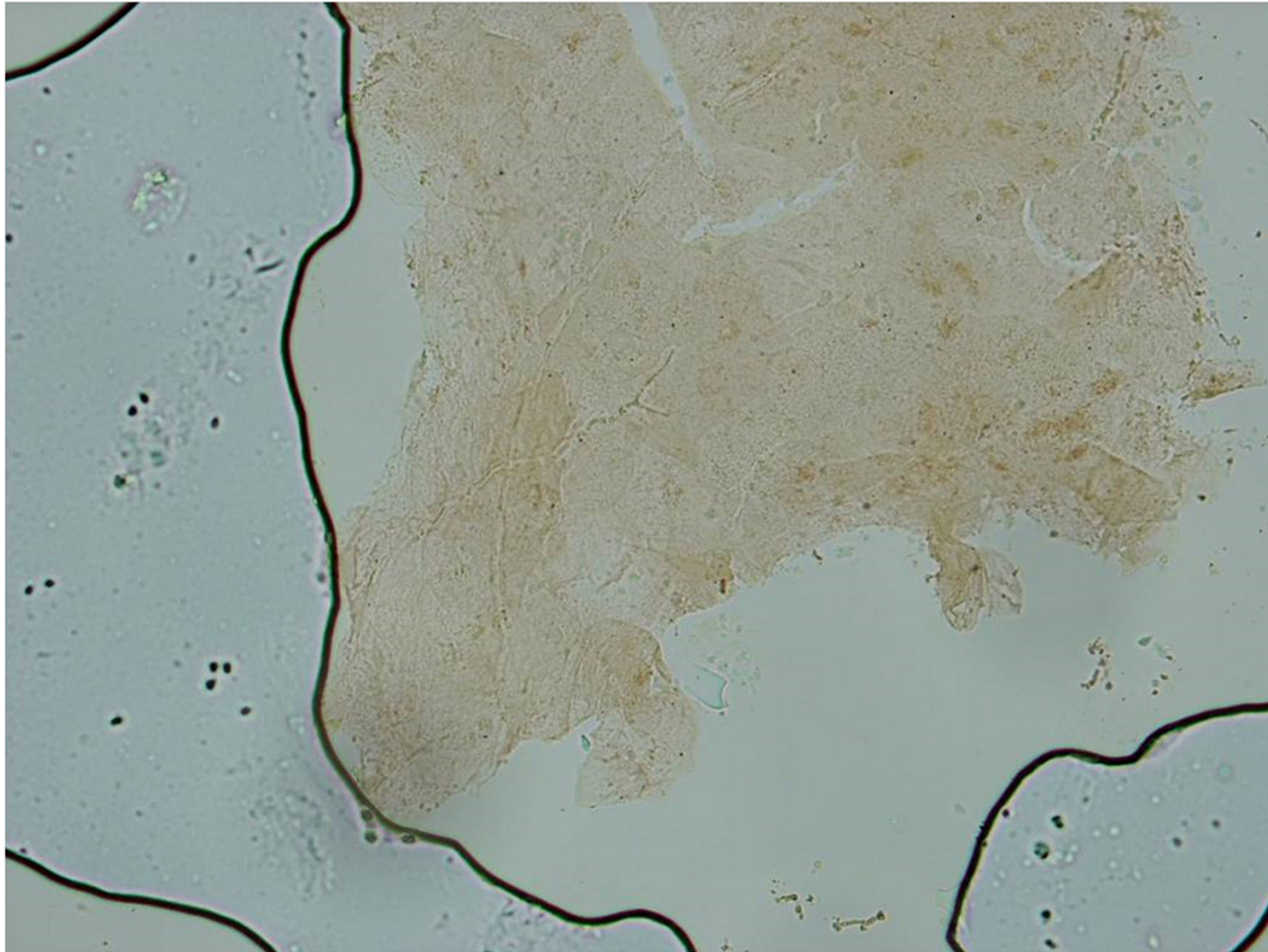
Dermatophytes are classified in 3 genera:

1. *Trichophyton sp.*
2. *Microsporum sp.*
3. *Epidermophyton floccosum*

Laboratory Diagnosis of Dermatophytosis

- **Specimen:** skin, hair or nail (depend on site of infections).
- **Direct microscopic examination:** stain with 10% KOH will show long, branch, hyaline septate hyphae.
- **Culture:** on SDA.
- **Microscopic examination:** stain with LPCB for identification.

Dermatophytosis with 10% KOH



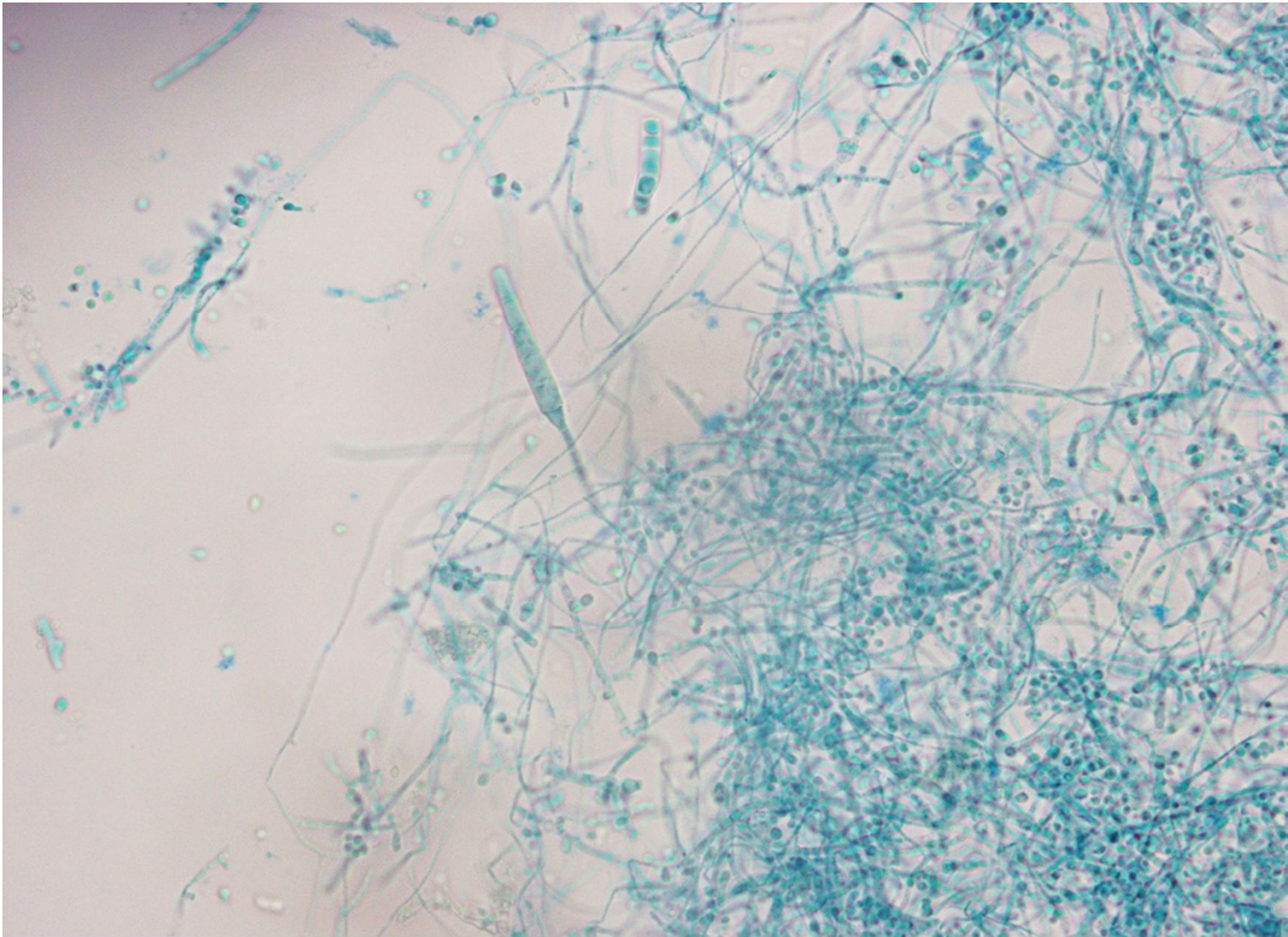
1. Trichophyton sp.

- **It is infect:** skin, hair and nail
- **Cause disease:** Trichophytosis (type of dermatophytosis)

1. Trichophyton sp.

- Septate hyphae.
- Conidiophore
- **Macroconidia:** pencil shape, rounded tip, multicellular, & have smooth wall.
- A lot of spherical microconidia.



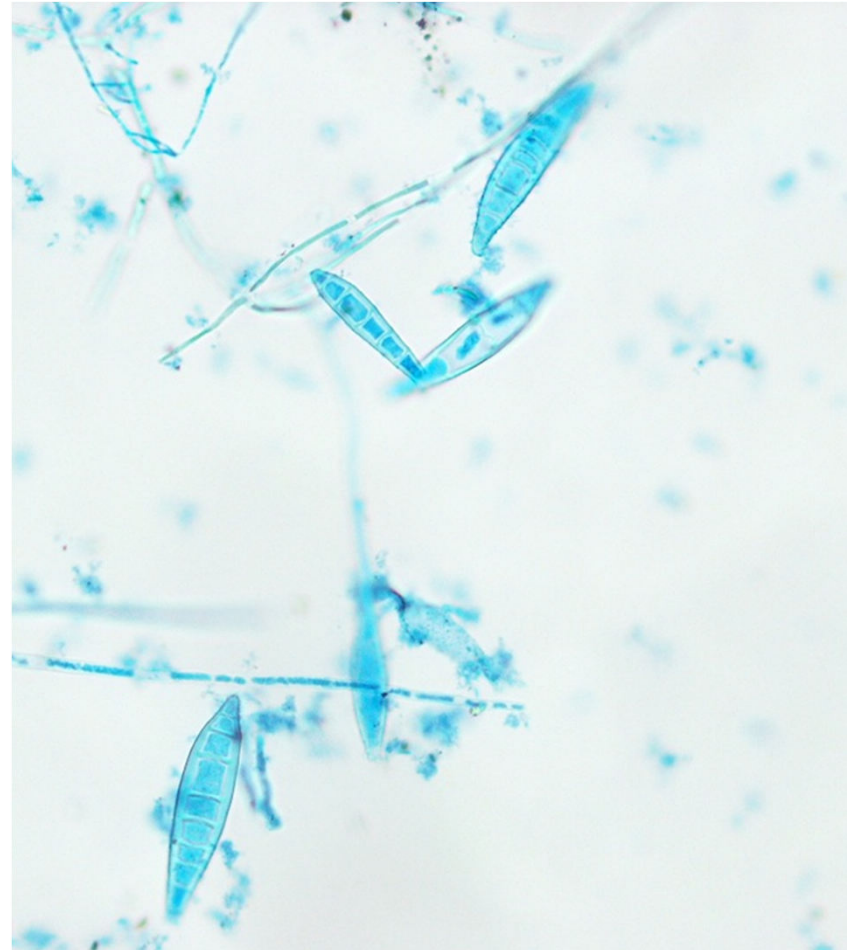


2. Microsporum sp.

- **It is infect:** skin and hair.
- **Cause disease:** Microsporiasis (type of dermatophytosis).

2. *Microsporum sp.*

- Septate hyphae.
- Conidiophore
- **Macroconidia:** spindle or American foot ball shape, pointed tip, multicellular, have rough and spiny wall.
- shape of micronidia :
- Microconidia oval in shape.





3. Epidermophyton floccosum

- It is anthropophilic fungi
- **It is infect:** skin and nail only.
- **Cause disease:** Epidermophytosis (type of dermatophytosis)

3. *Epidermophyton floccosum*

- septate hyphae
- Short conidiophore.
- **Macroconidia:** club shape, rounded tip, multicellular, and have smooth wall.
- Don't have microconidia

