

Εργαστηριακές Ασκήσεις Φυτοπαθολογίας
4ο Εξάμηνο

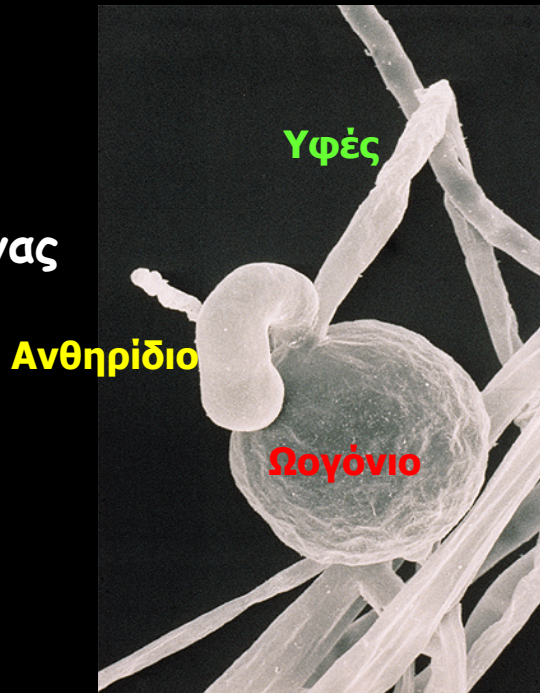
ΩΟΜΥΚΗΤΕΣ
Pythiaceae

ΓΕΩΠΟΝΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
Τμήμα Επιστήμης Φυτικής Παραγωγής
Εργαστήριο Φυτοπαθολογίας

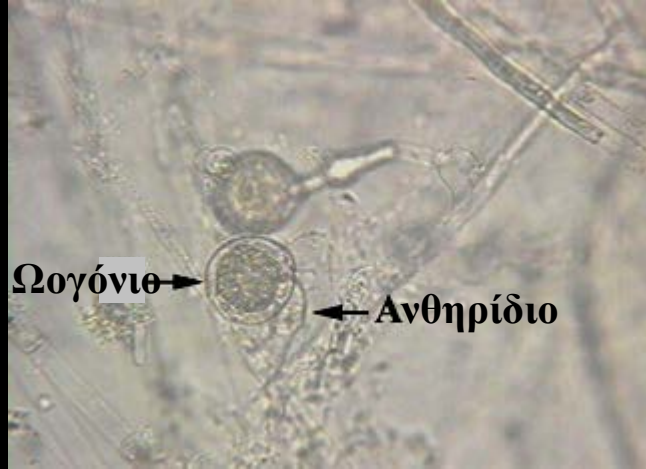
Εγγενής αναπαραγωγή Ωομυκήτων

Ωοσπόρια

- Ένωση 2 γαμεταγγείων (ανθηρίδιο-ωογόνιο, σωλήνας σύζευξης)
- Παχιά τοιχώματα
- Πηγή γενετικών ανασυνδυασμών
- Επιβίωση σε
 - Φυτικούς ιστούς
 - Χύμα
 - Επιφάνεια σπόρων



Pythium spp.



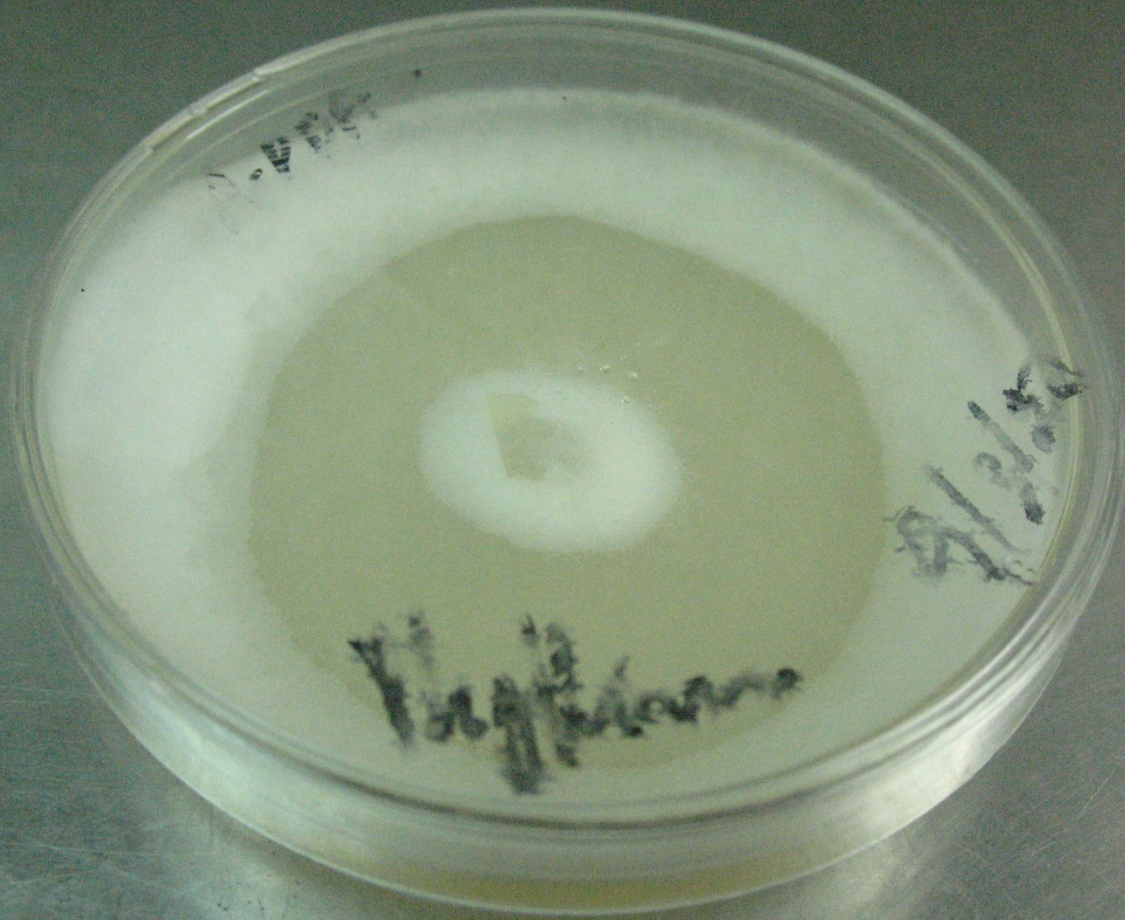
Σποριάγγεια σφαιρικά ή
απιοειδή, χωρίς θηλή

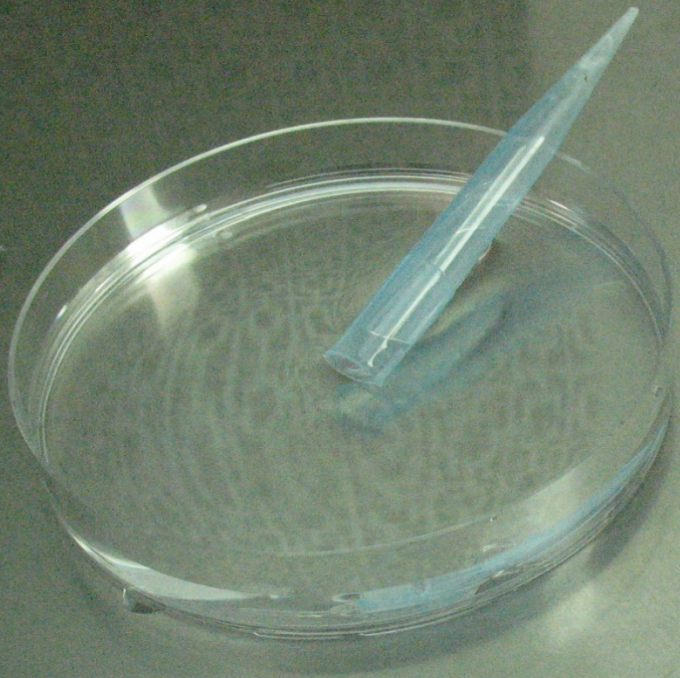
Ζωοσπόρια απελευθερώνονται
μέσω κύστης

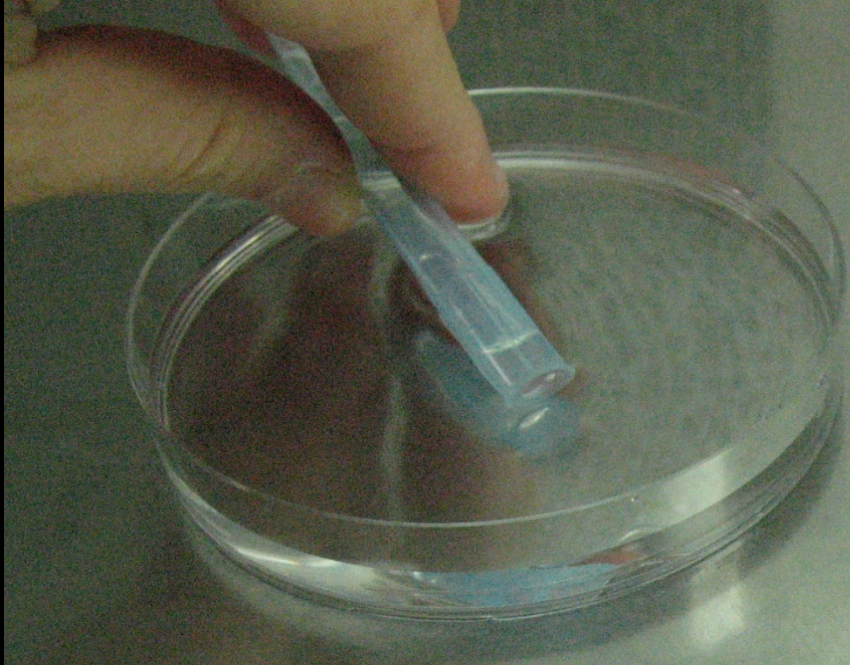
Pythium spp.



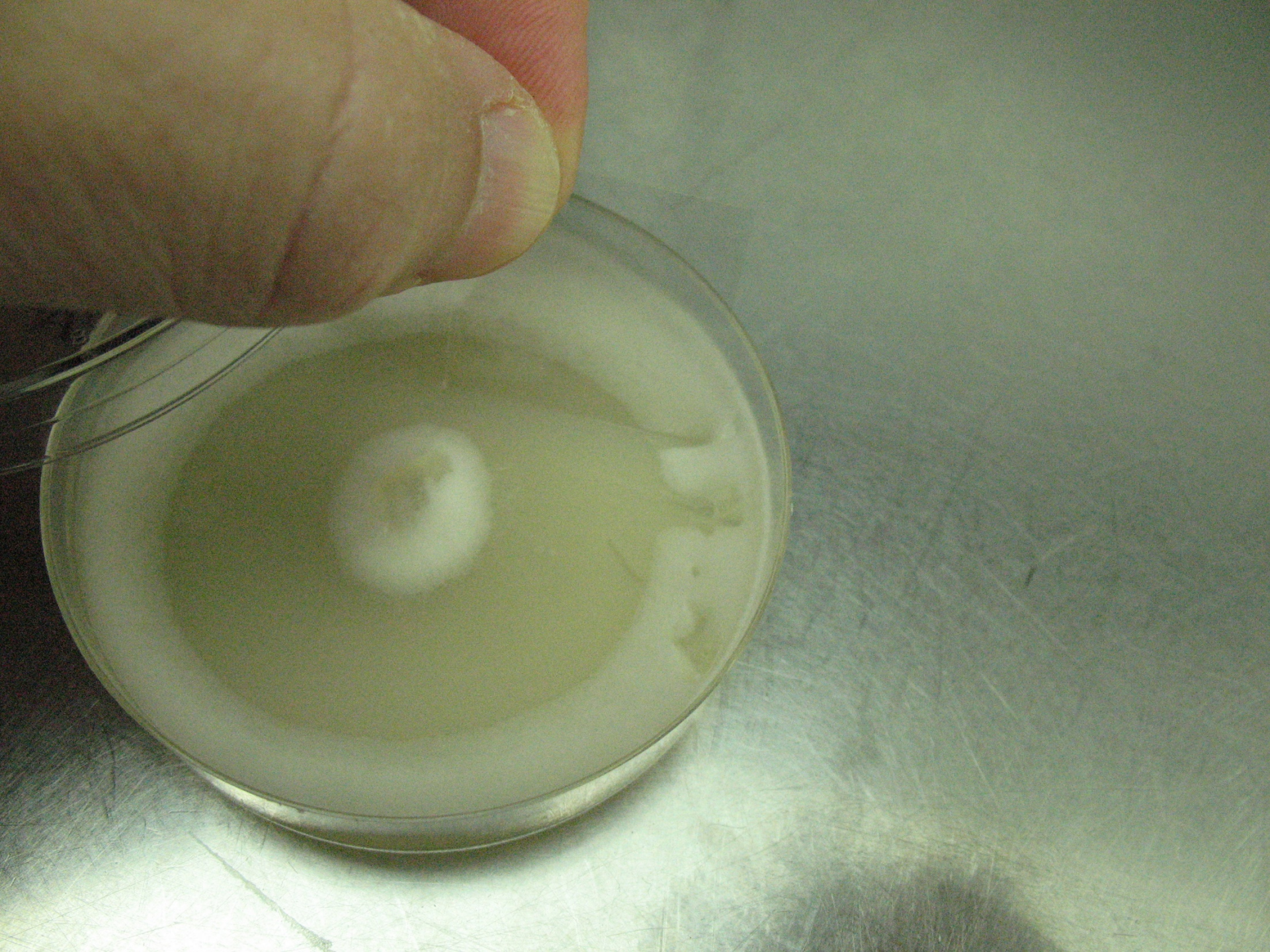
Pythium spp.

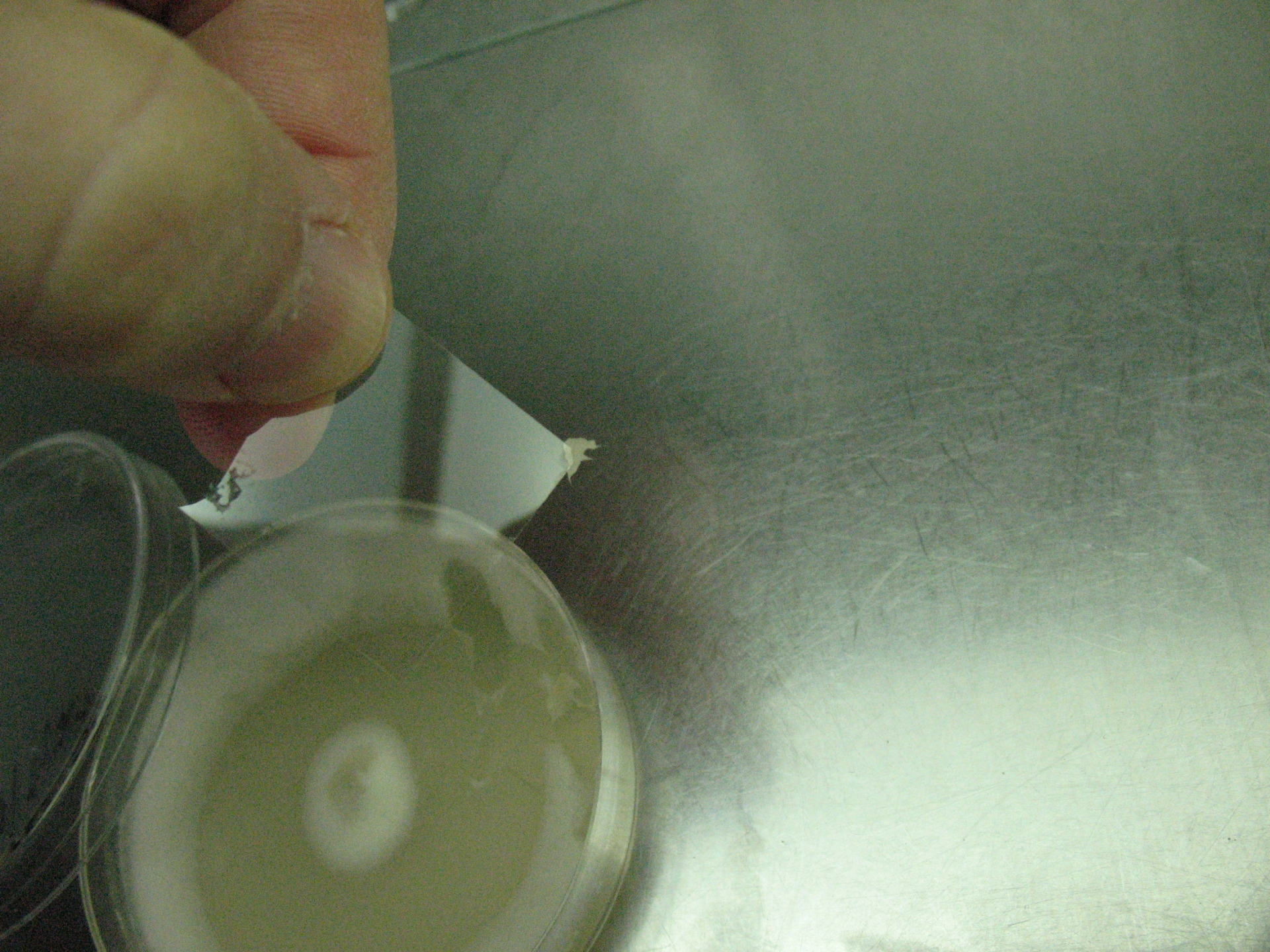


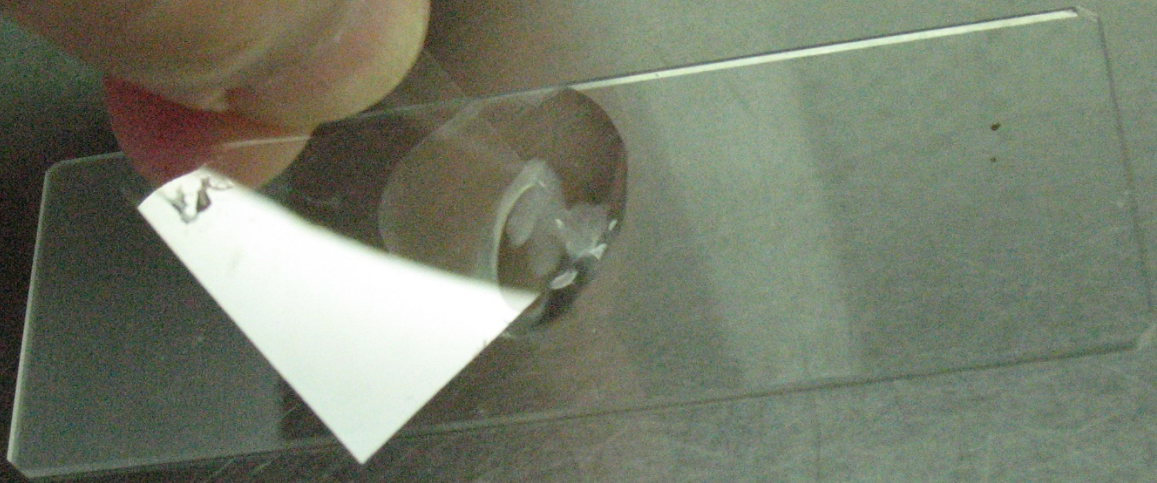




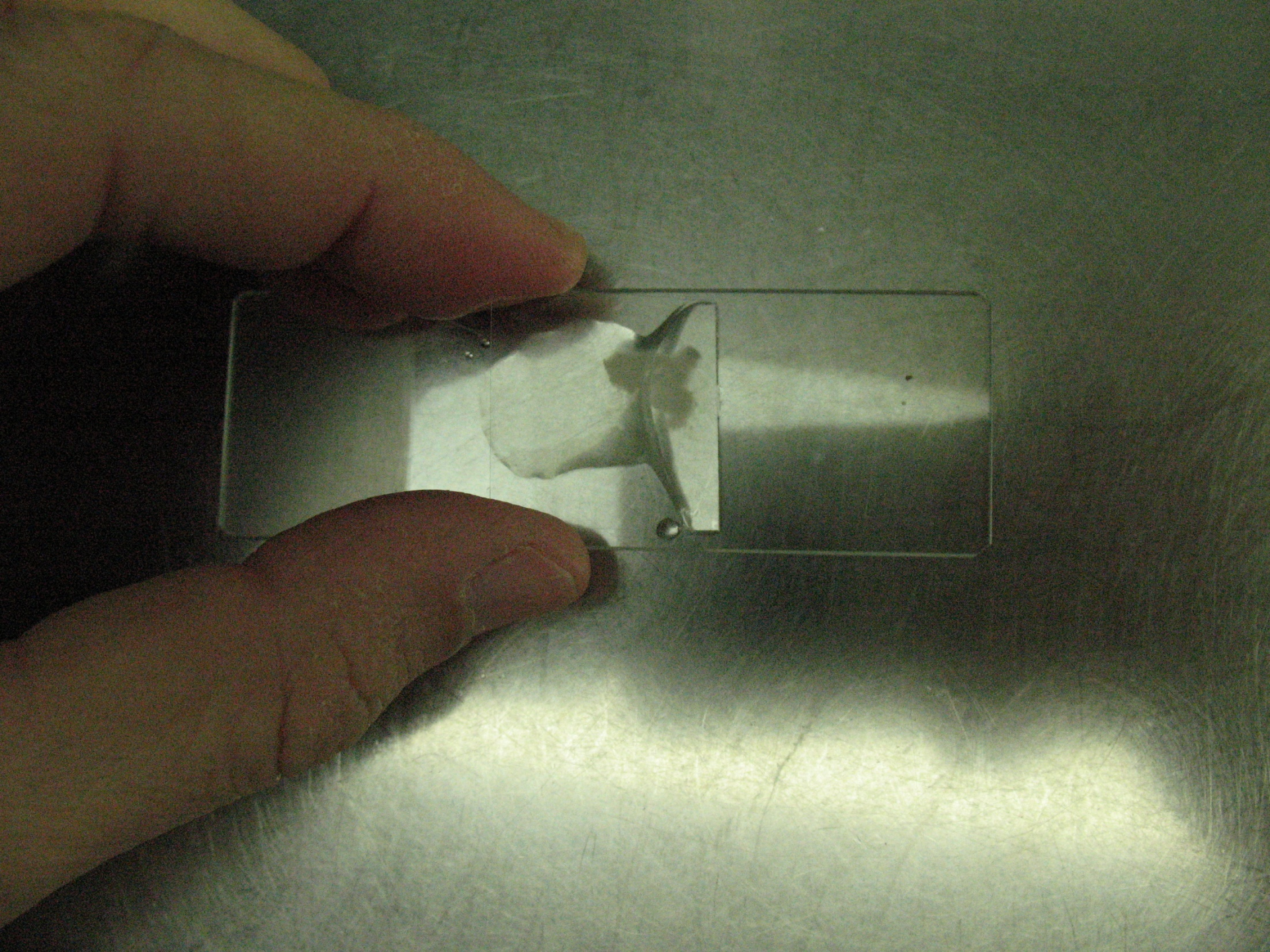




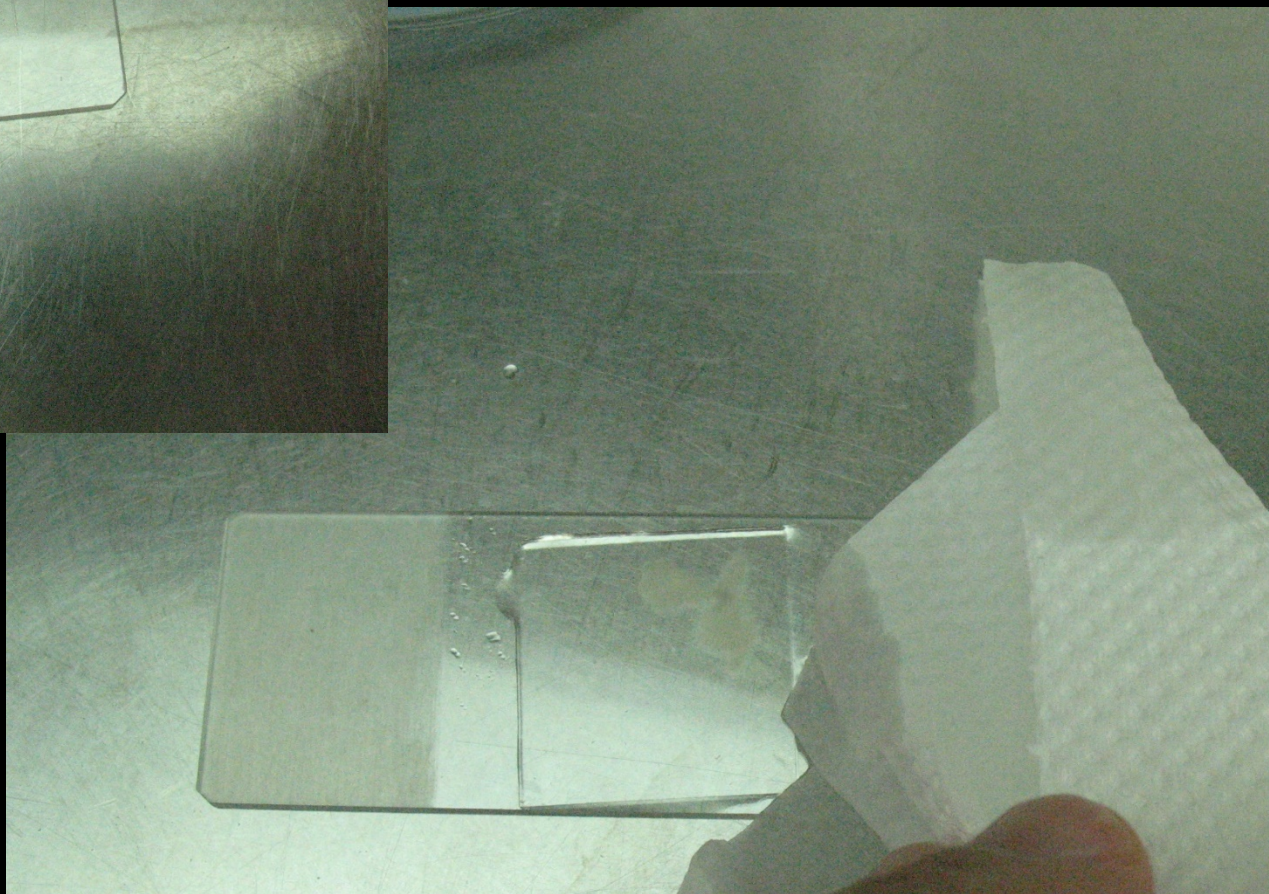
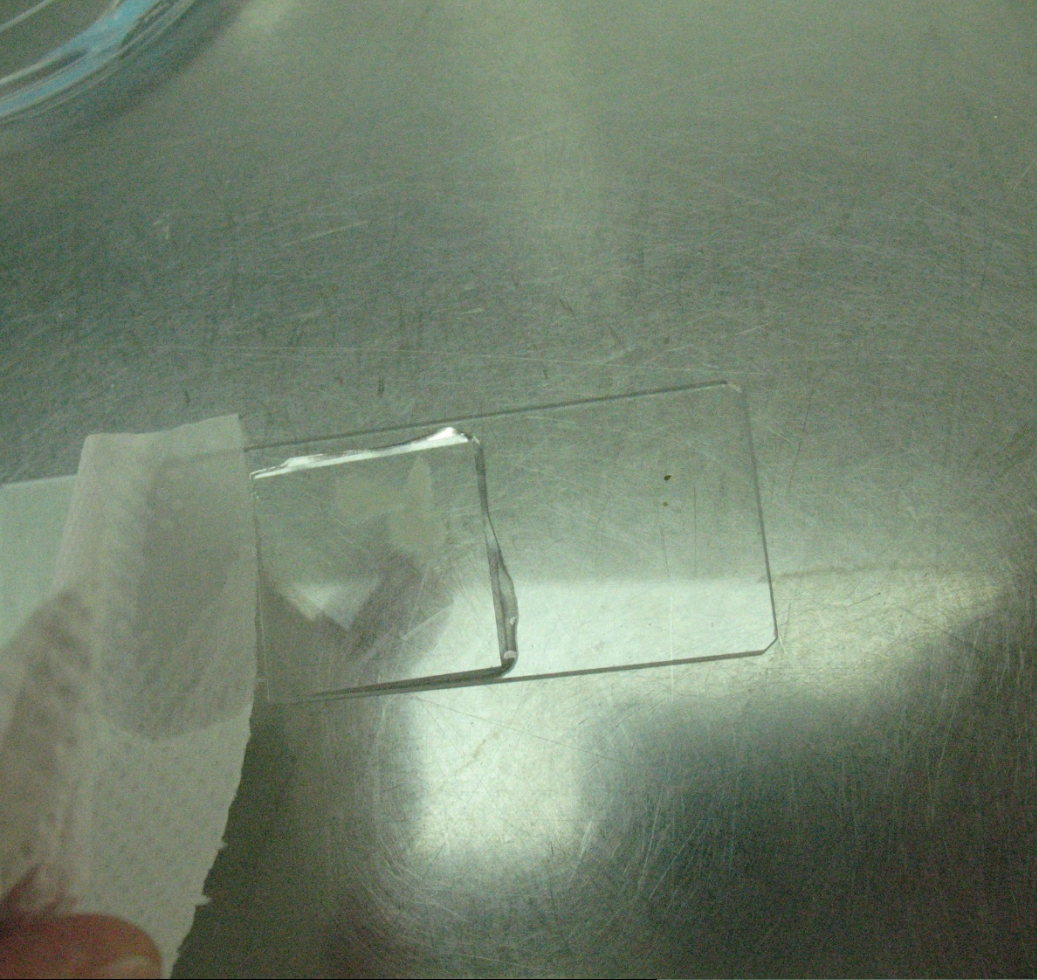














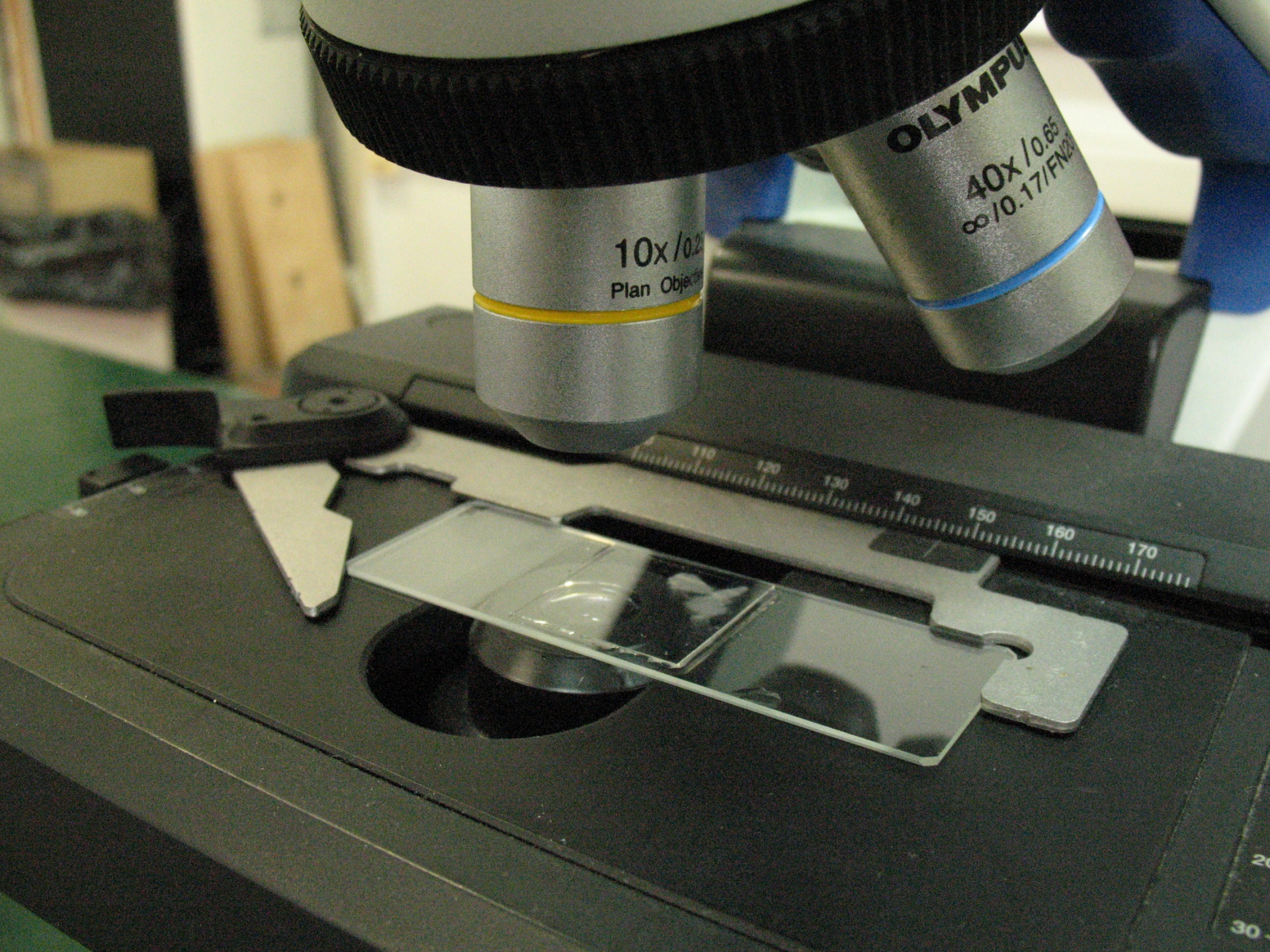
OLYMPUS
CX23

OLYMPUS
40x (pos.)
No. 11390

10x (pos.)
No. 11389

40x4 10x4 4.5x

415



10x / 0.25
Plan Objective

OLYMPUS
40x / 0.65
 ∞ / 0.17 / FN25

110 120 130 140 150 160 170

20
30



10x / 0.25
∞ / - / FN2

40x / 0.65
Plan

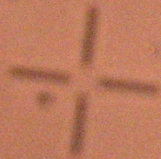
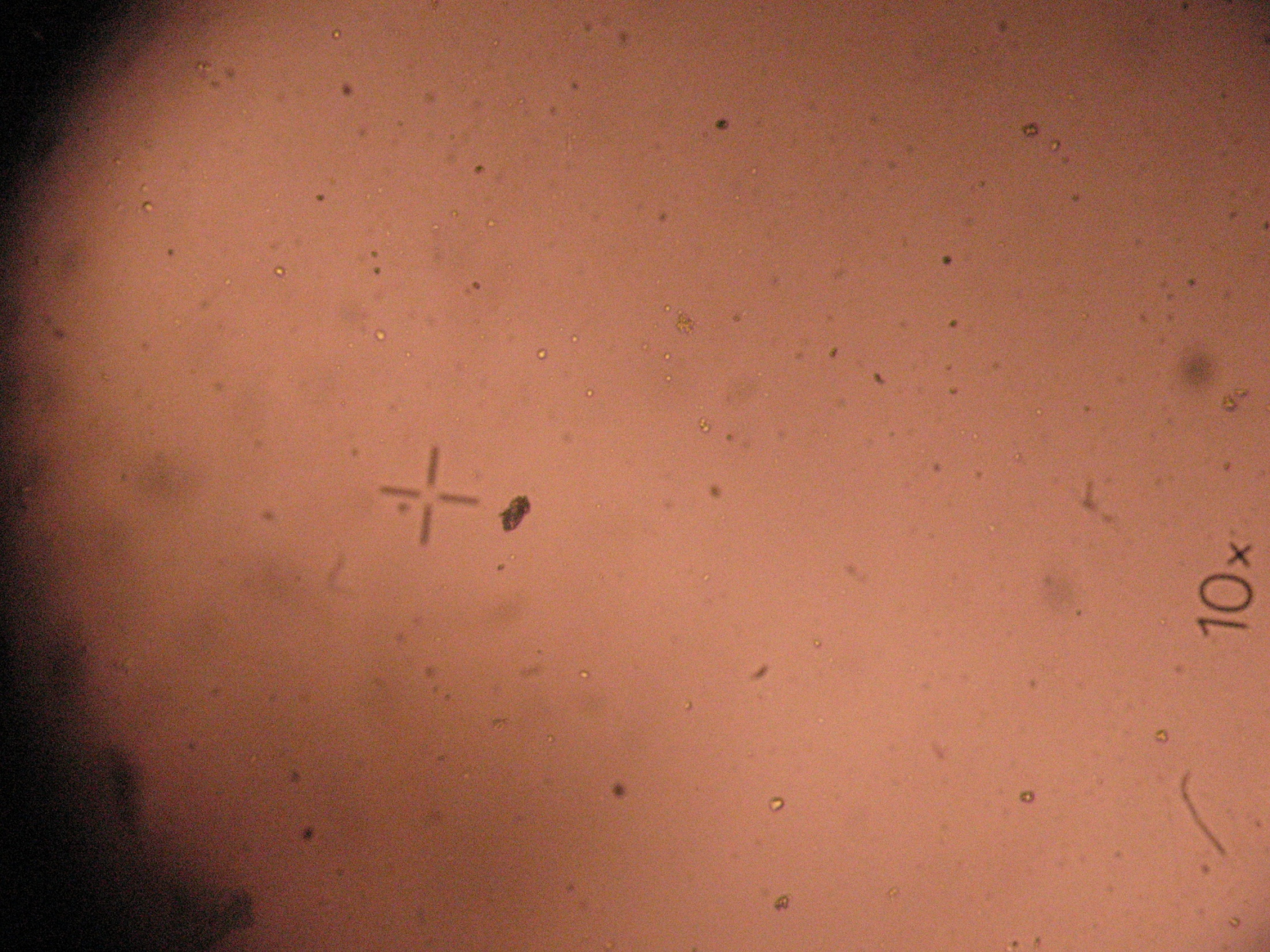
100 150 200



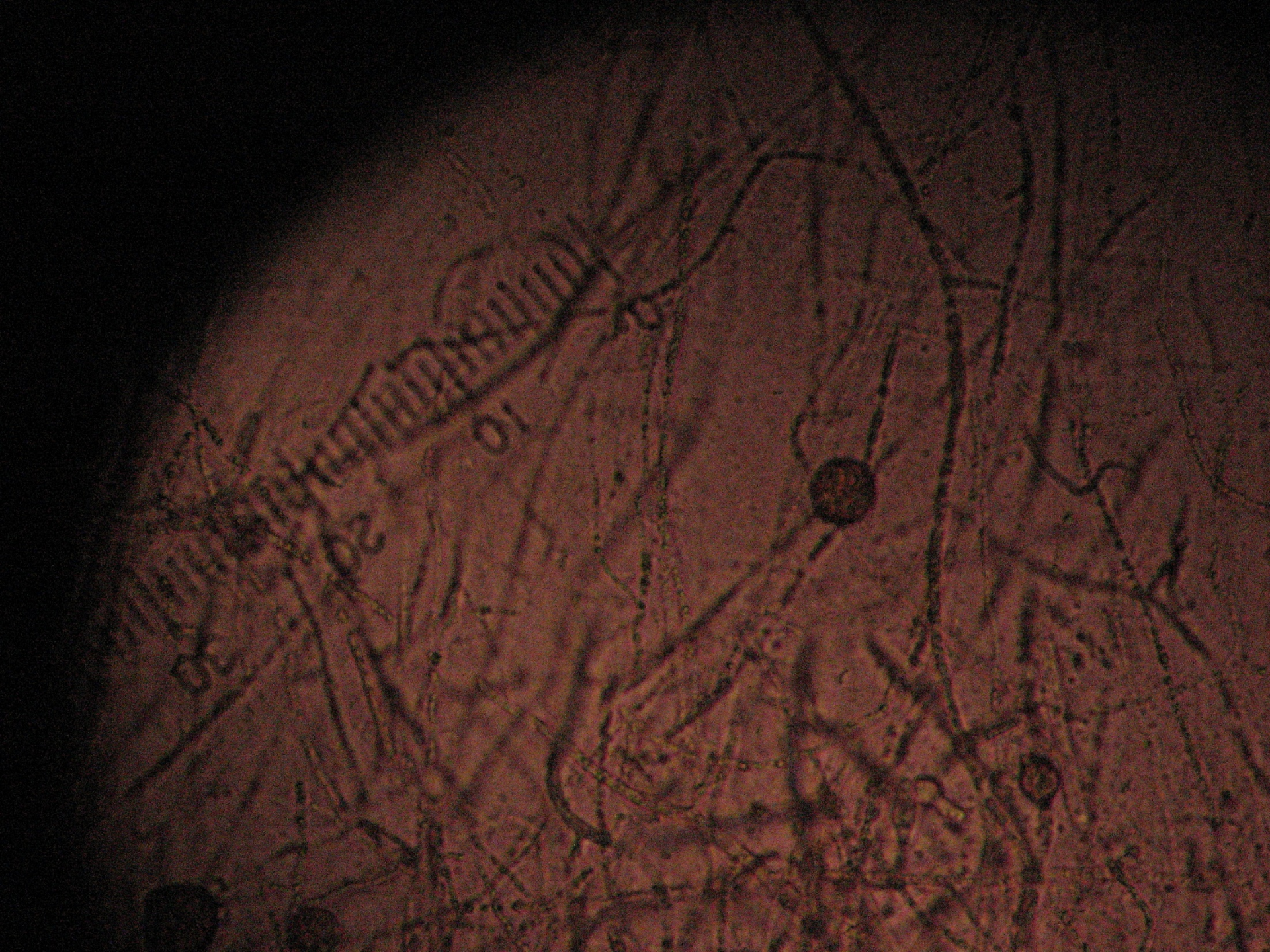
ZEISS
Germany

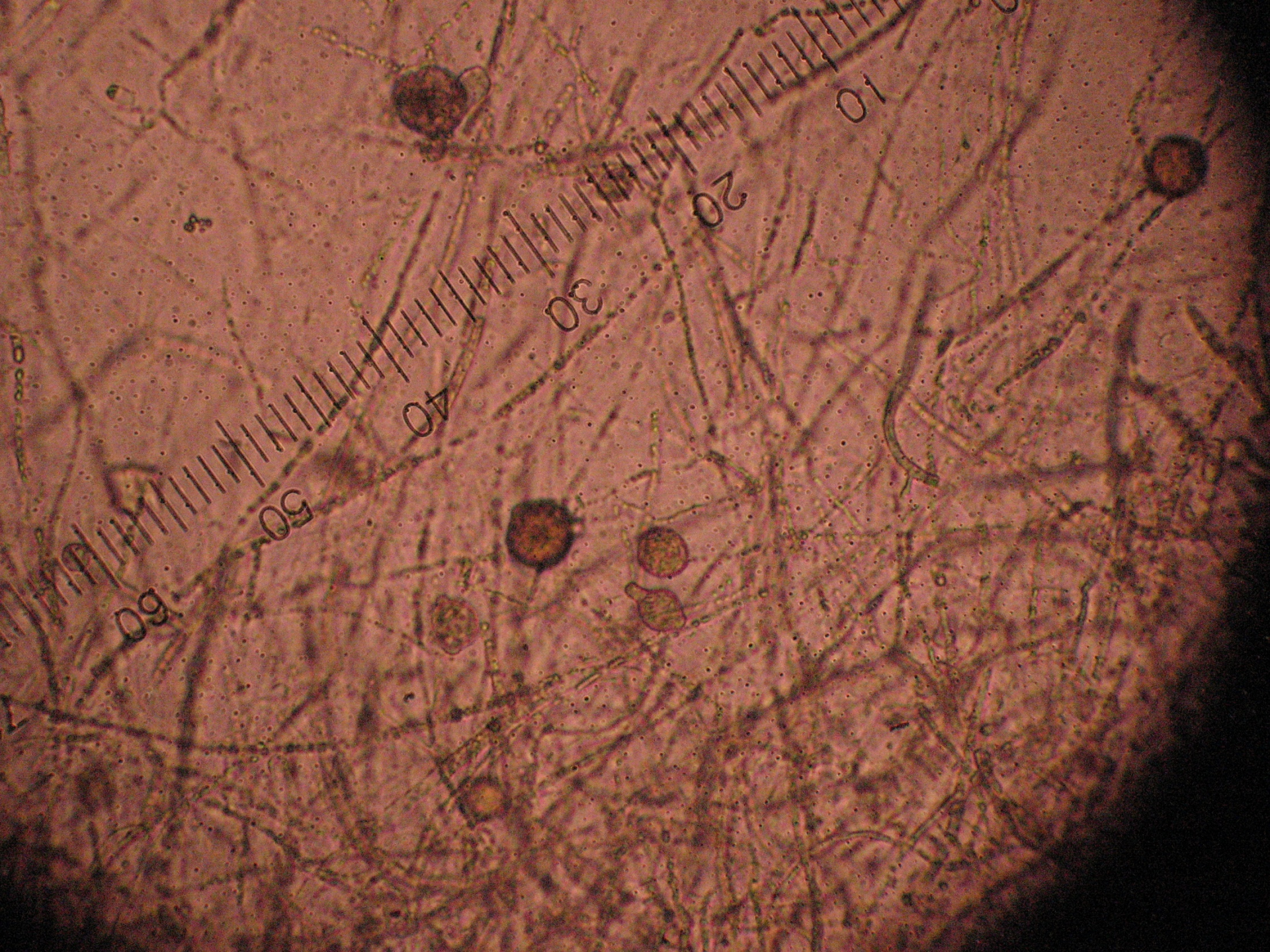
Axioskop

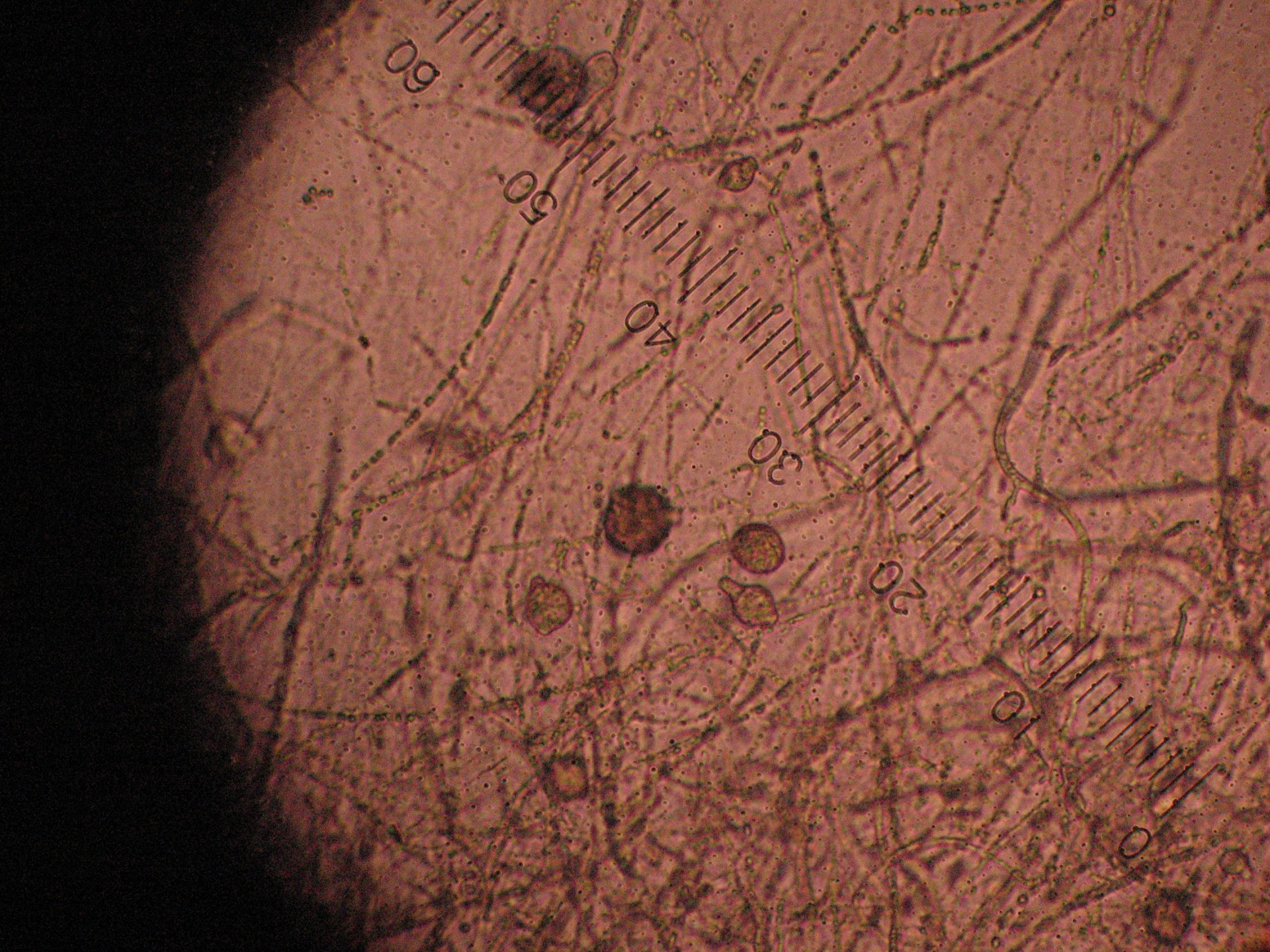
Handwritten text on the equipment in the background, possibly a date or identification number.



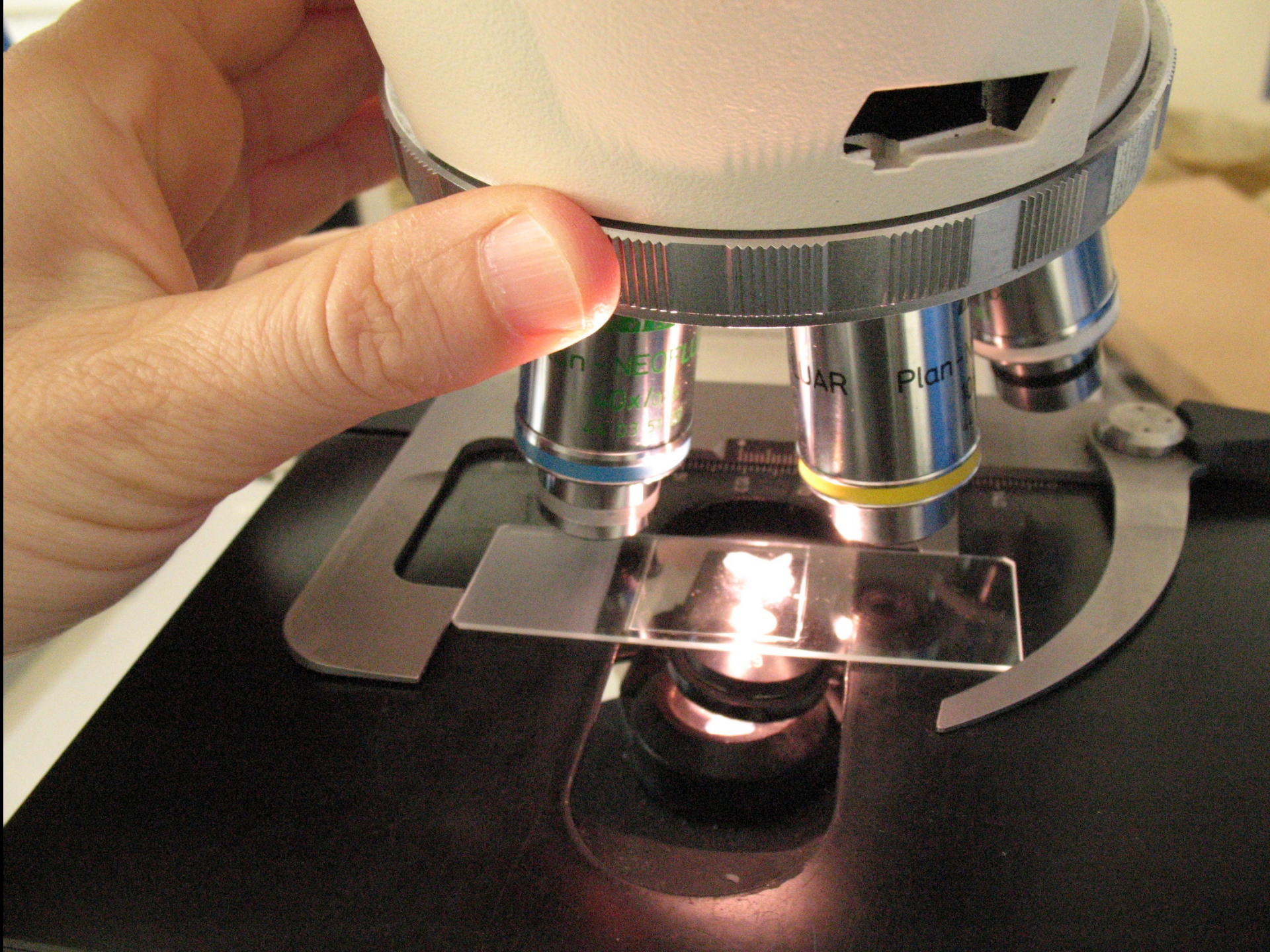
10x





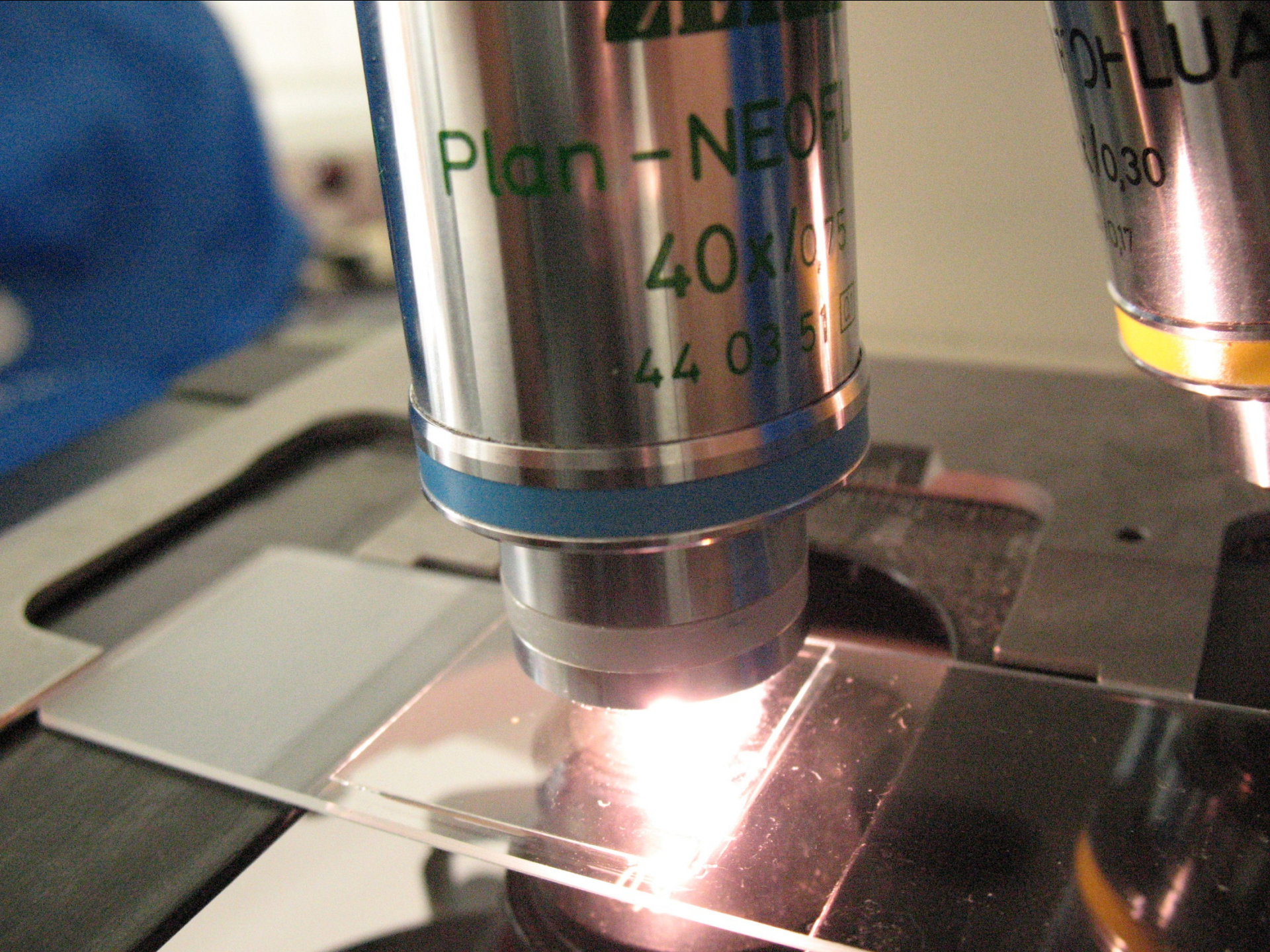






n - NEOPLAN
60x/0.85
44 03 51

UAR Plan



Plan - NEOFLUOR

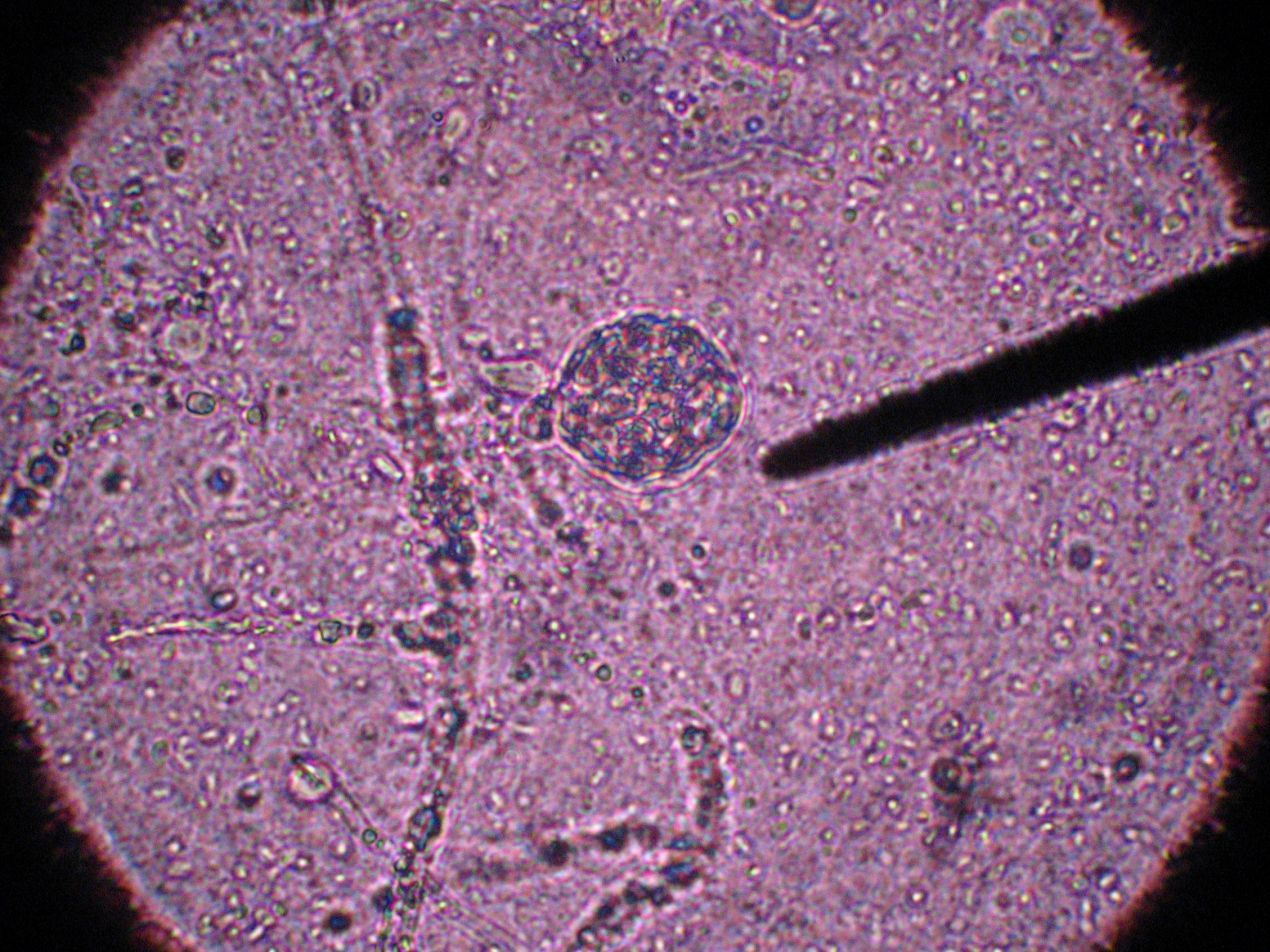
40x/0.75

44 03 51

PH LUA

10,30

1017



Phytophthora infestans



Λεμονοειδή σποριάγγεια με θηλή

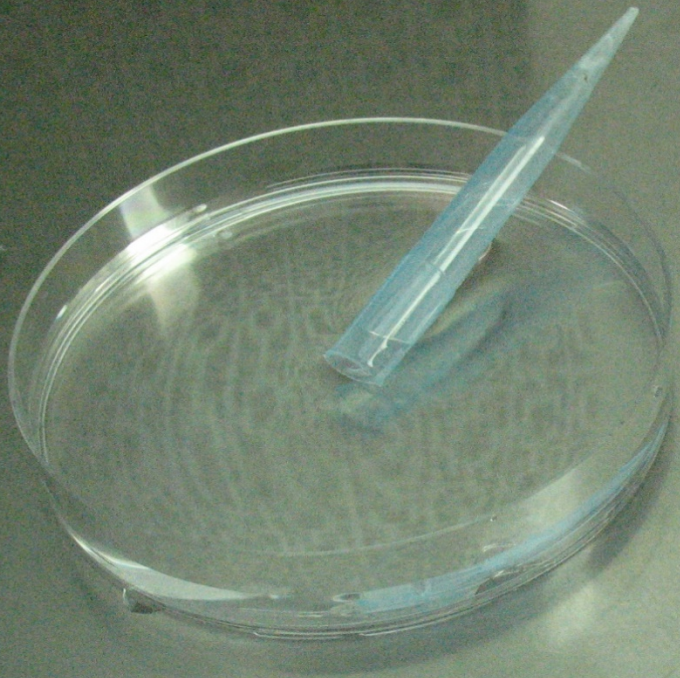


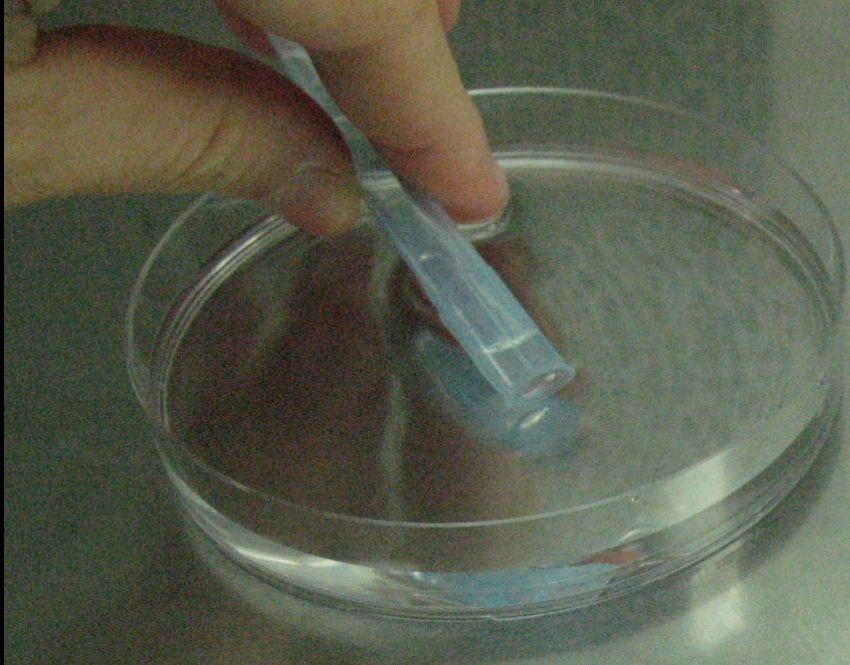
Phytophthora infestans

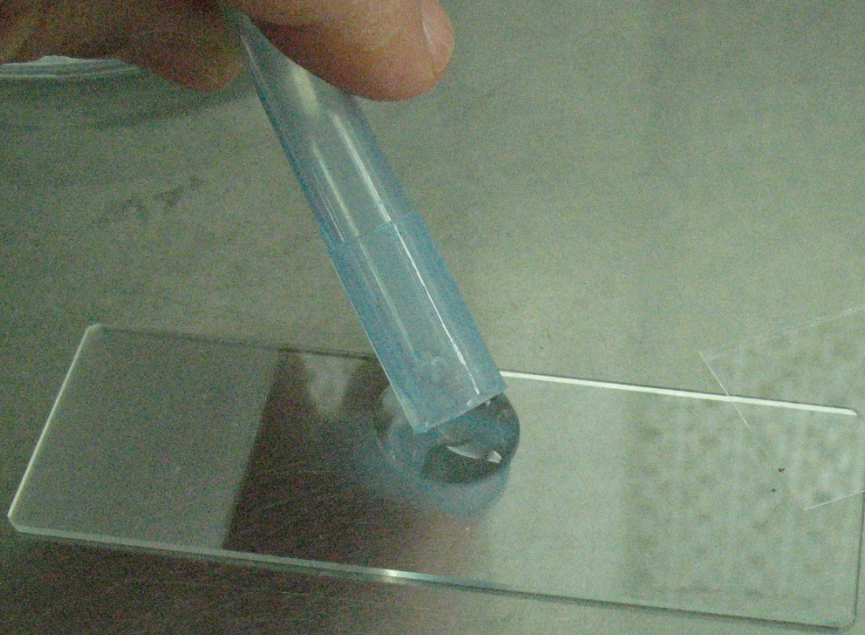


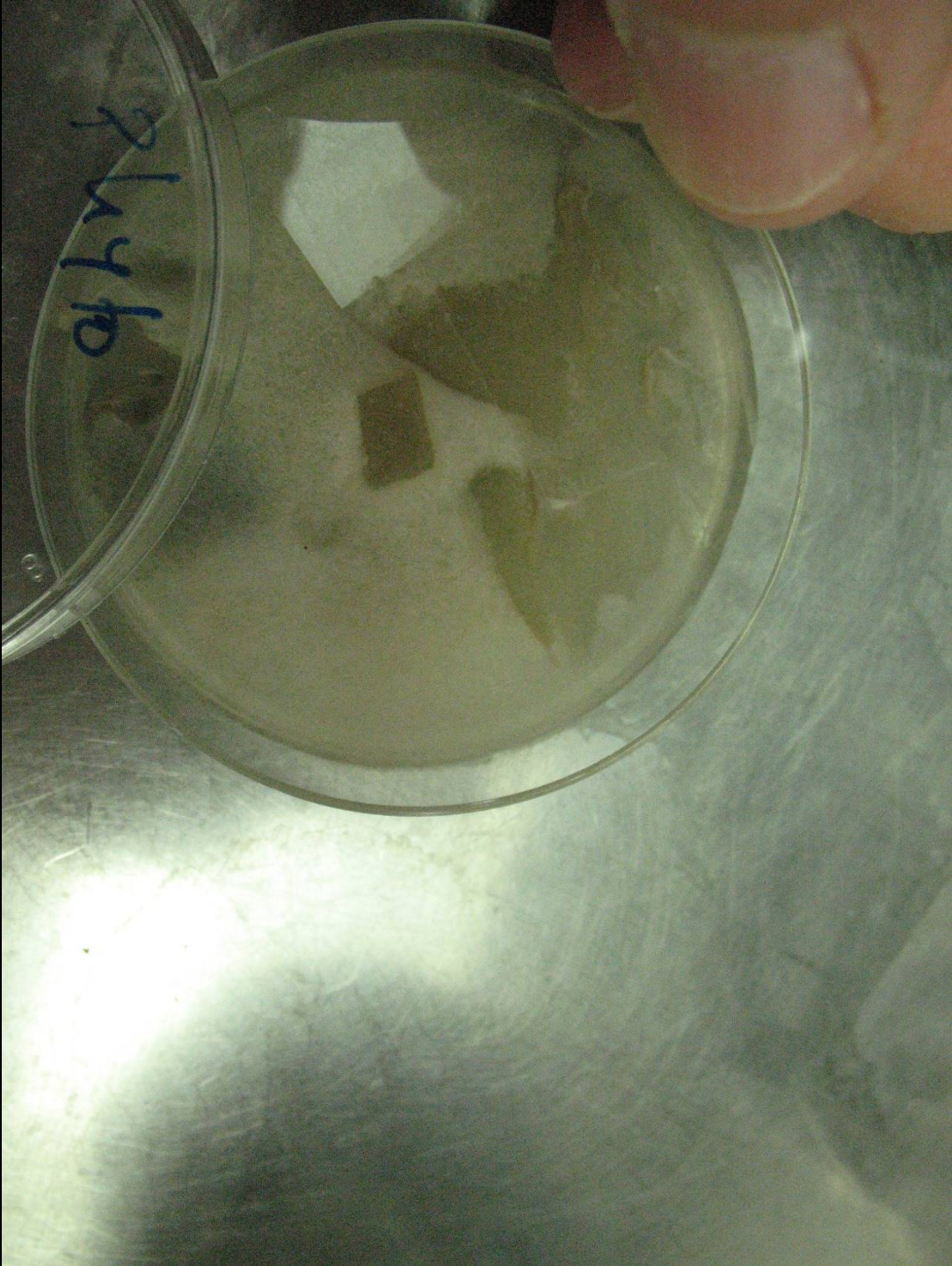
Phytophthora nicotianae



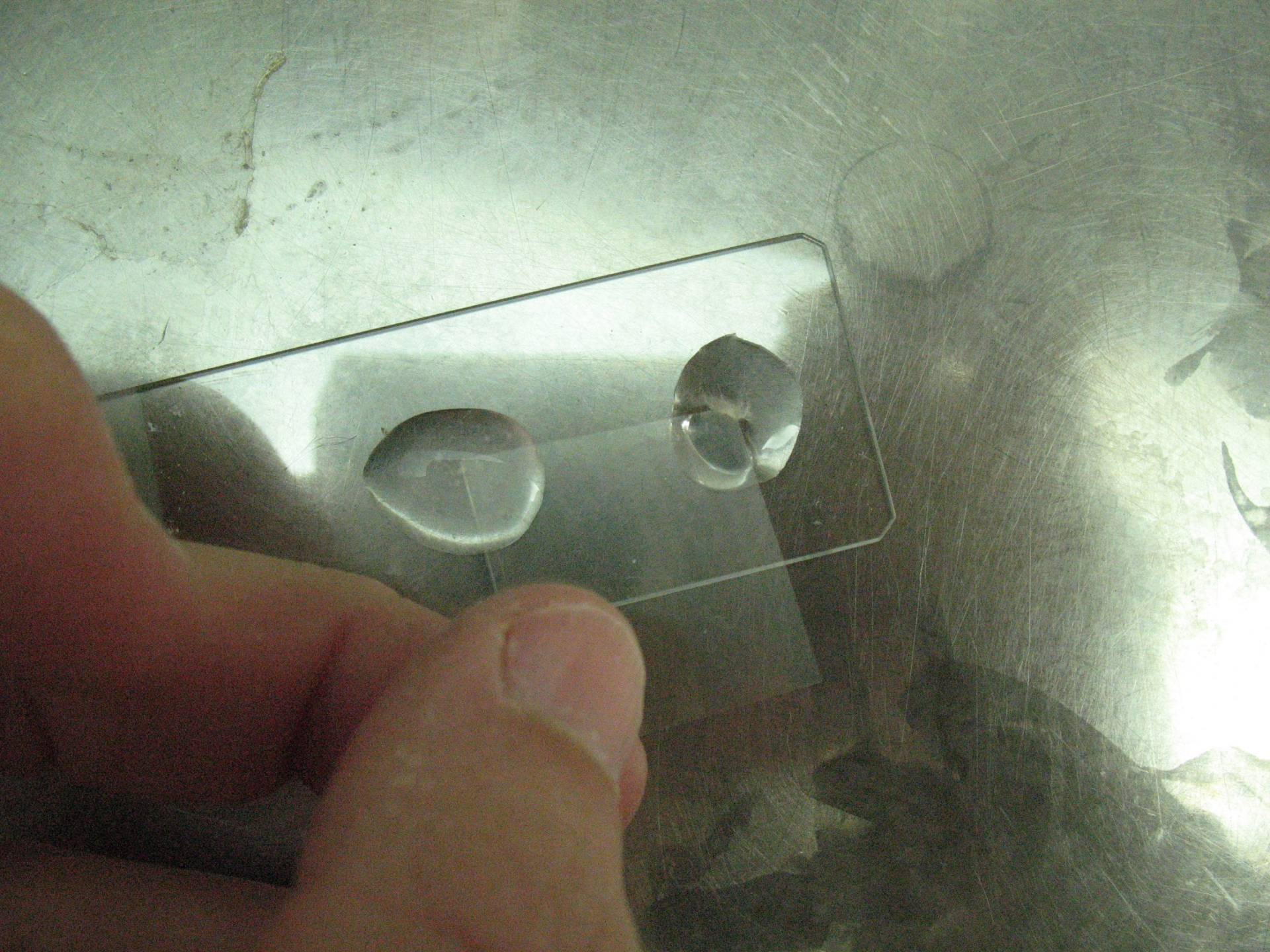
















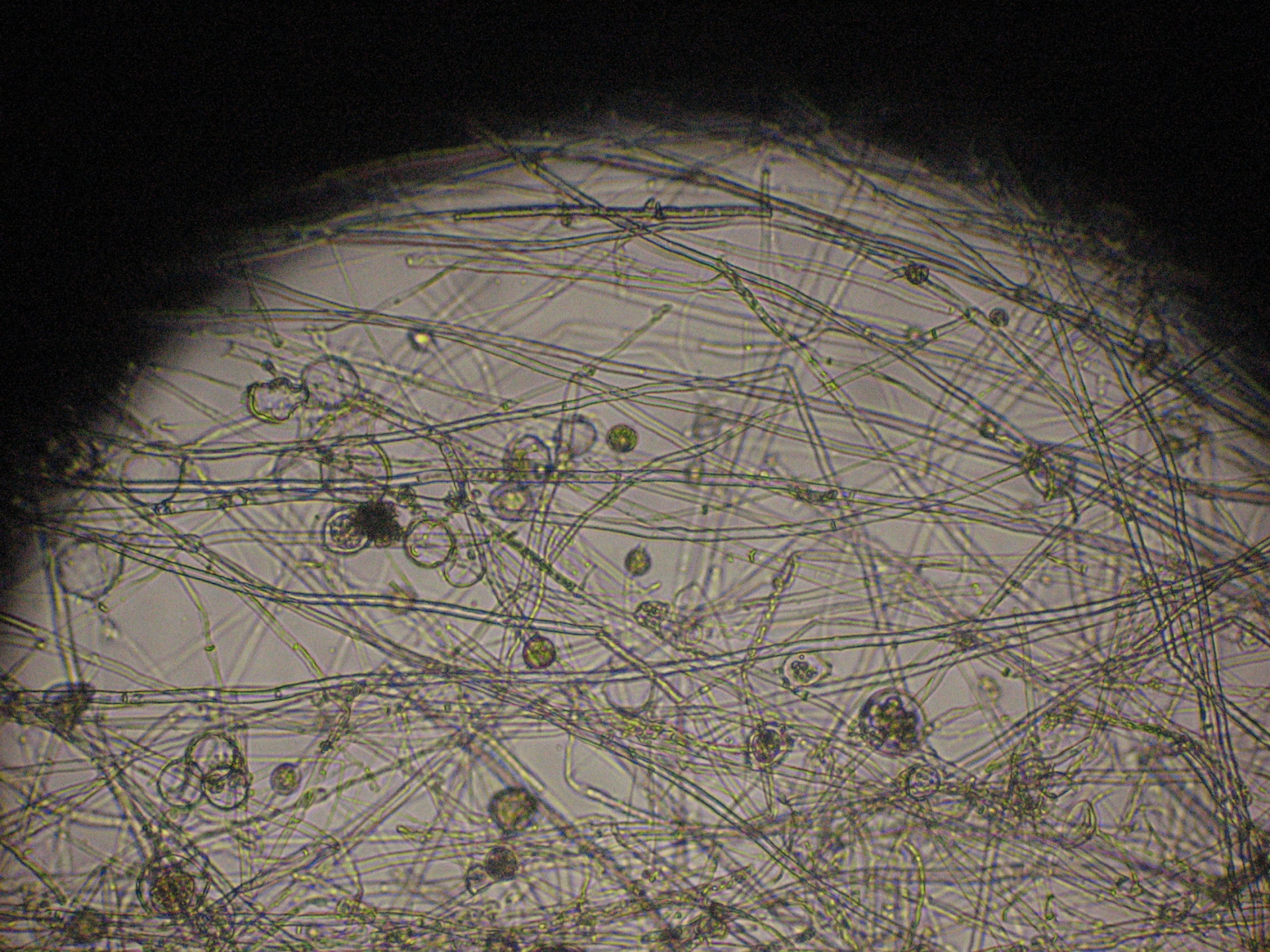


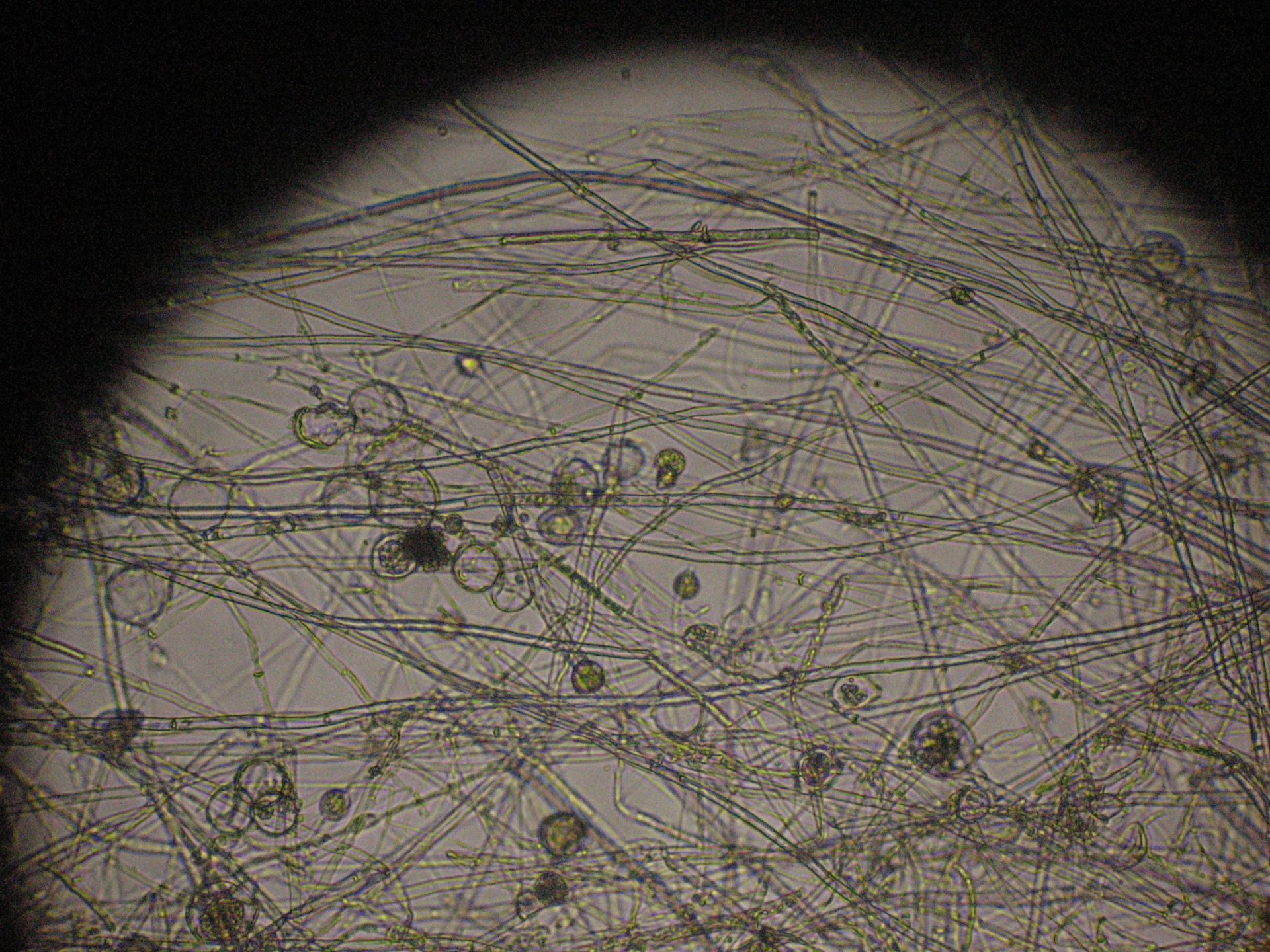


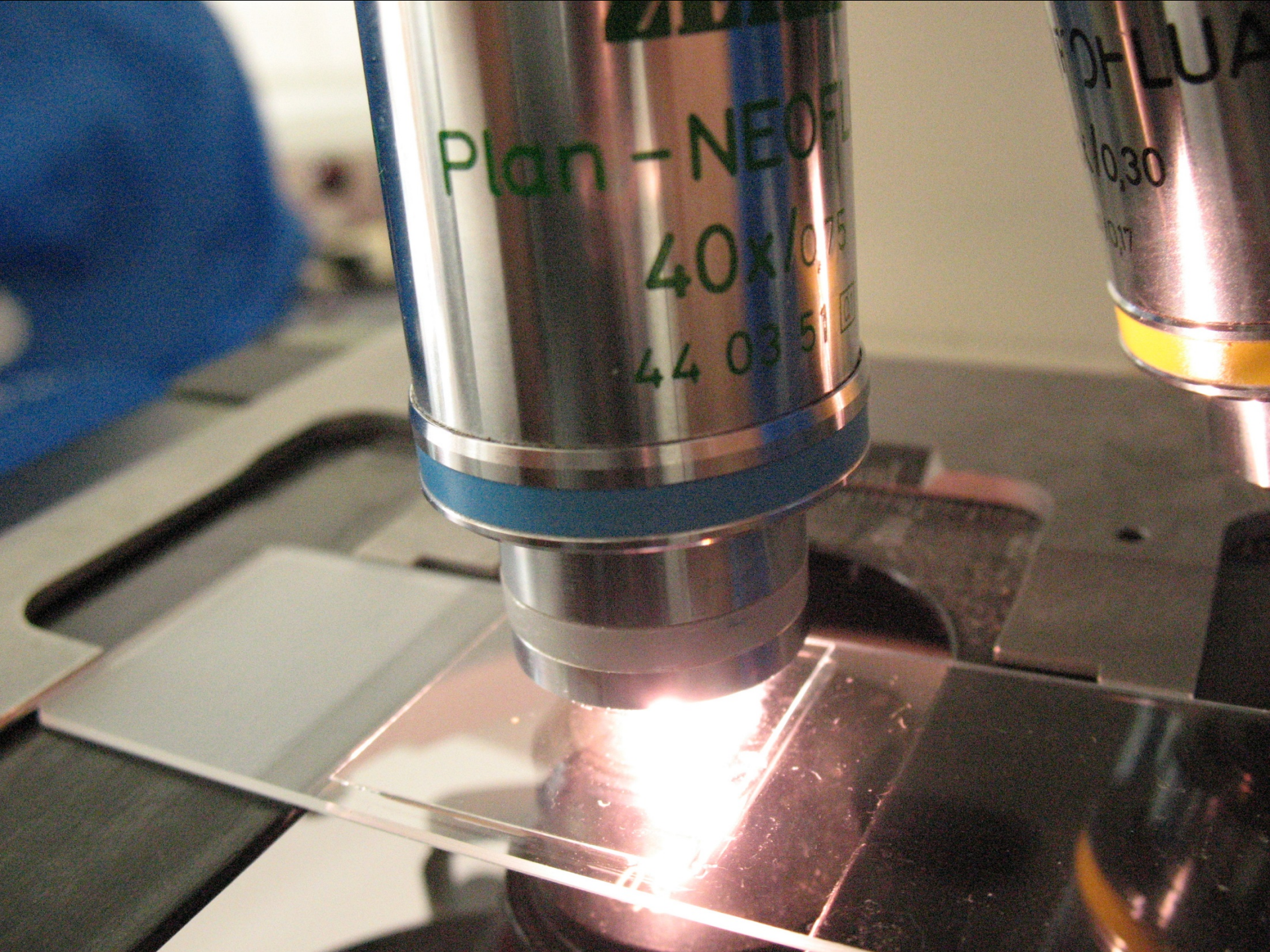
10x / 0.25
∞ / - / FN2

40x / 0.65
Plan Obj

100 150 200







Plan - NEOFLUOR

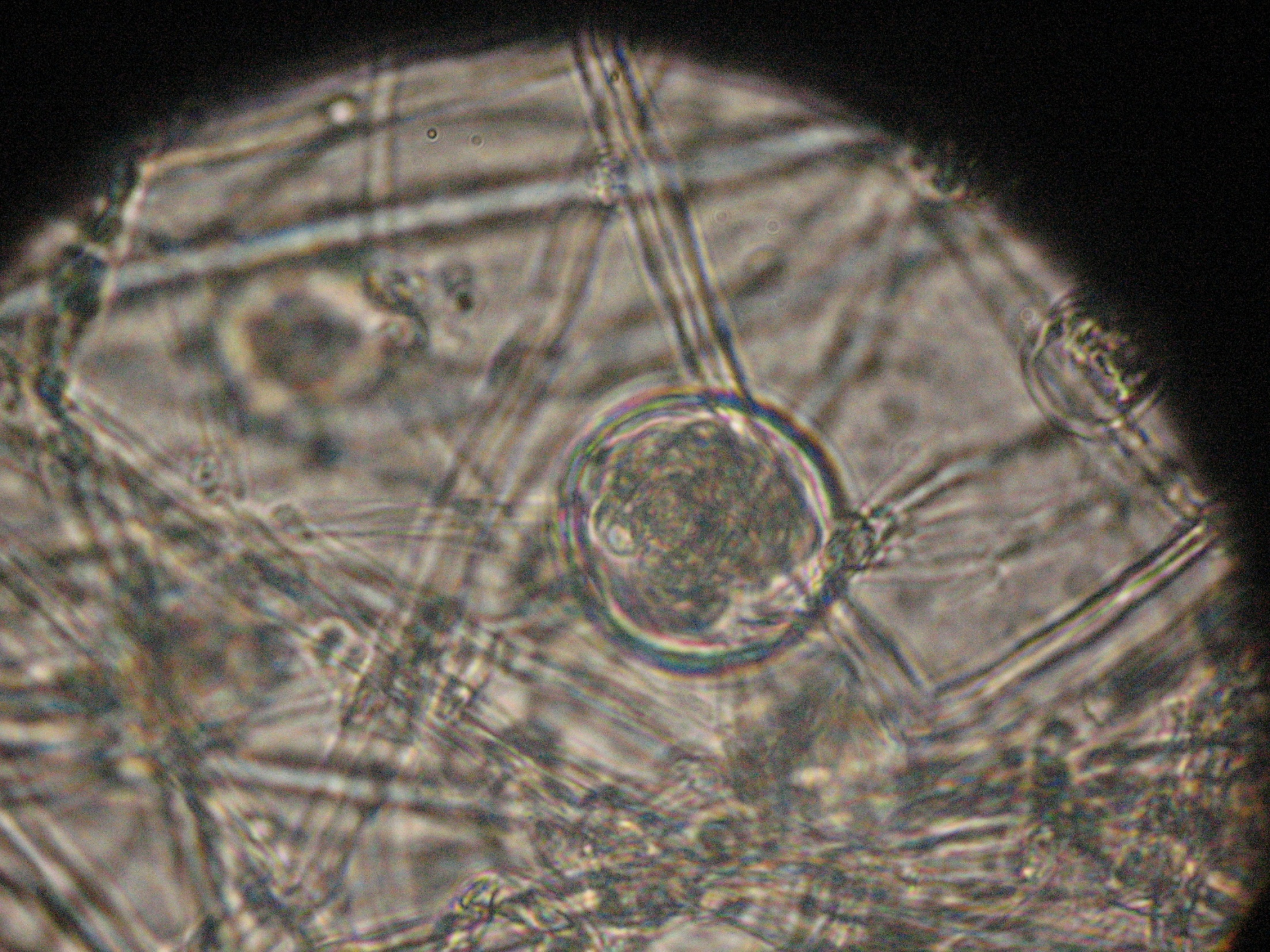
40x/0.75

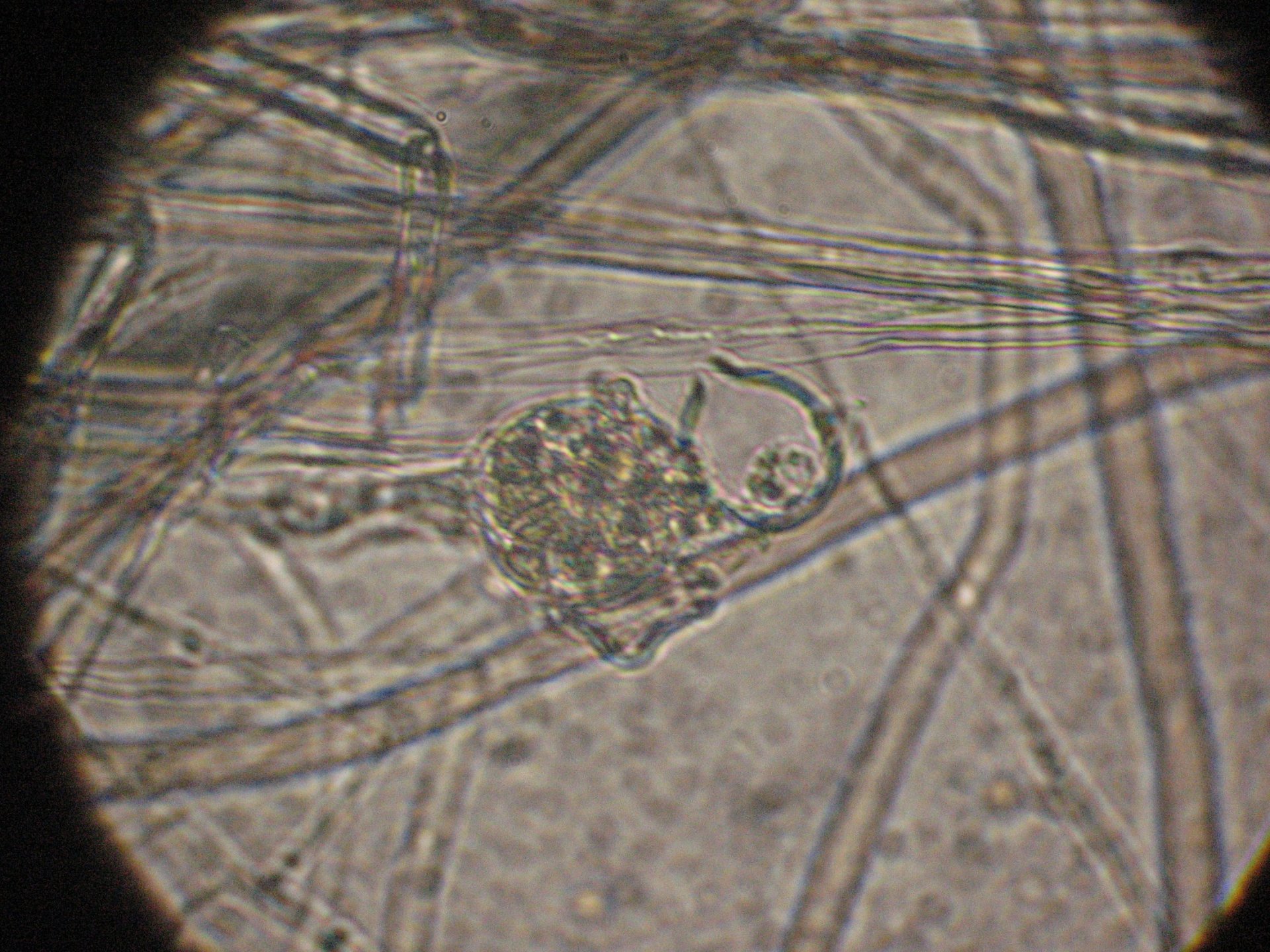
44 03 51

PH LUA

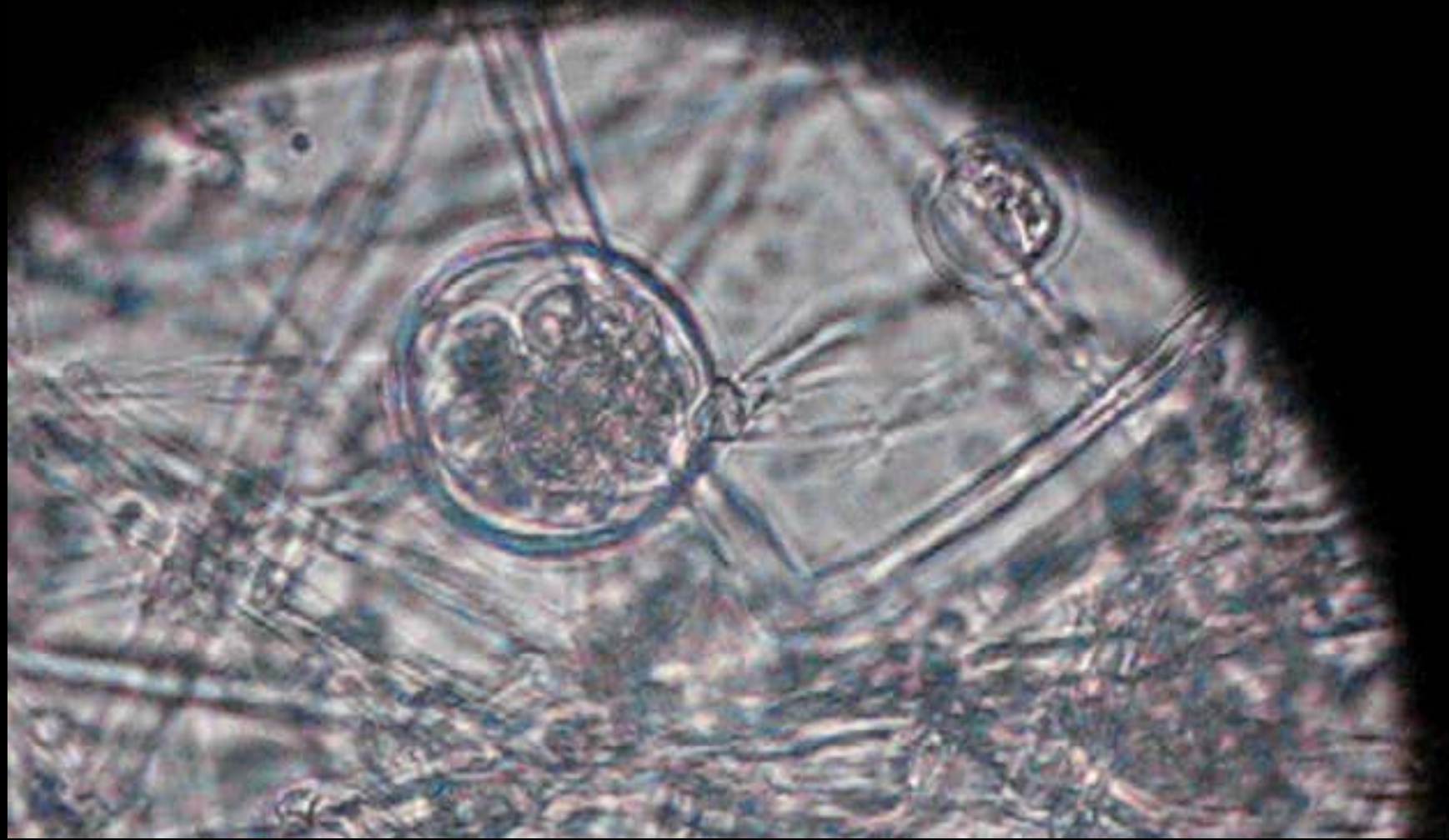
10,30

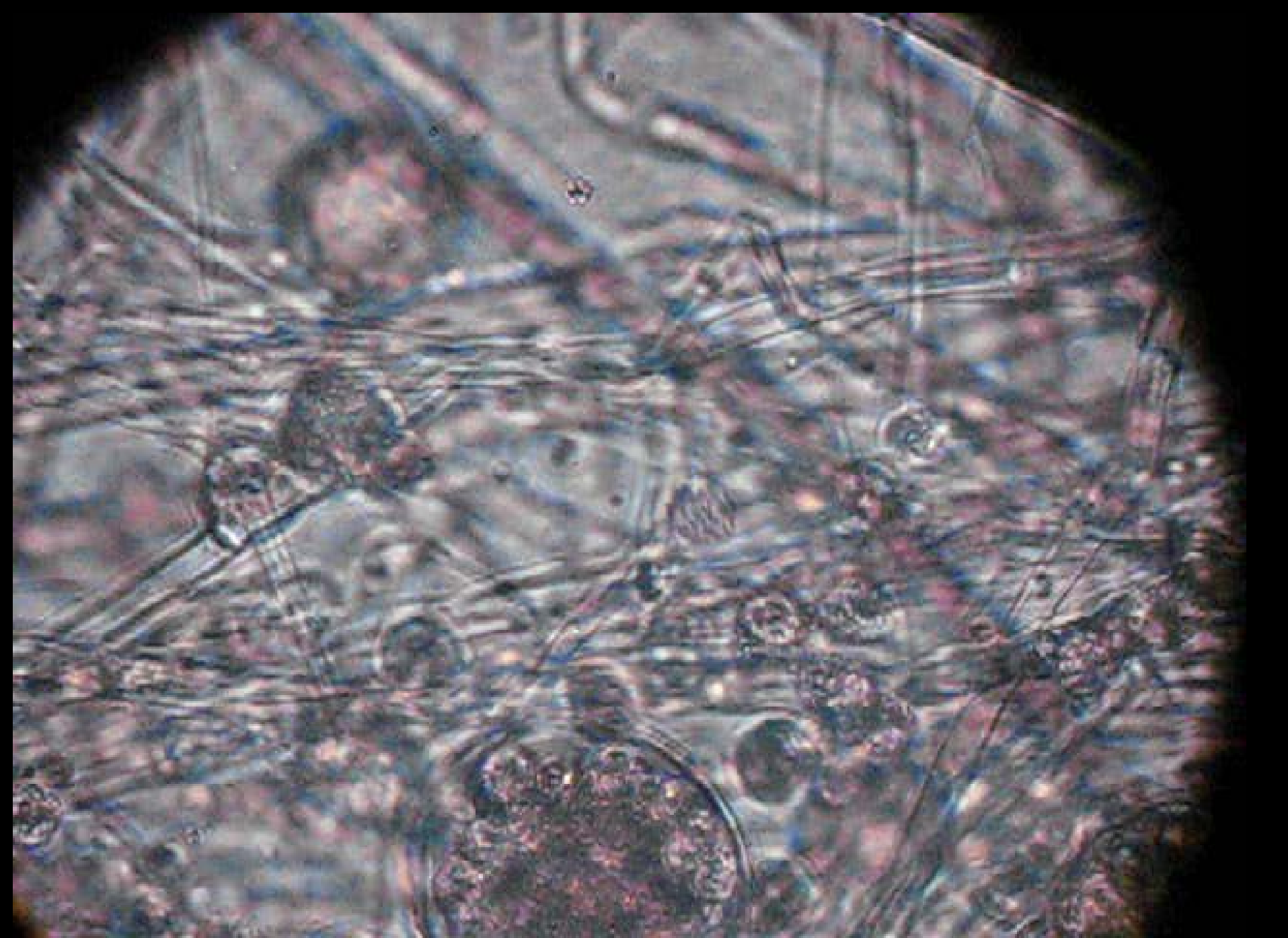
1017



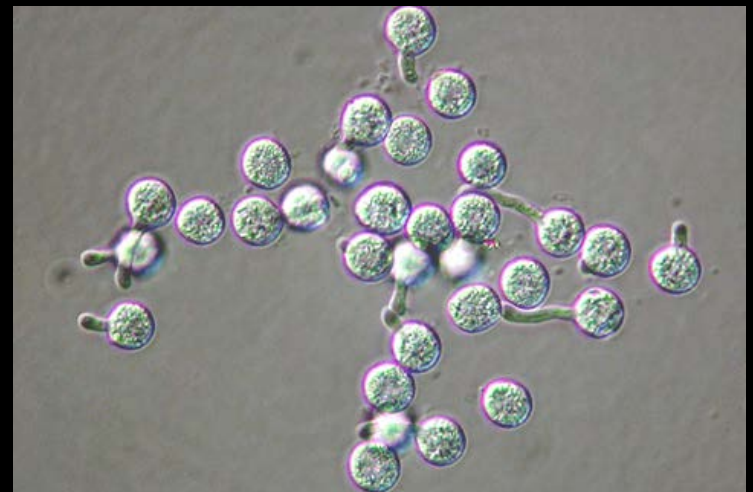








Απελευθέρωση ζωοσπορίων



Αυτόνομη κίνηση ζωοσπορίων