

# University of Derna Faculty of medicine



## **Practical Notebook**



**Prepared By: Amal Srgewa** 

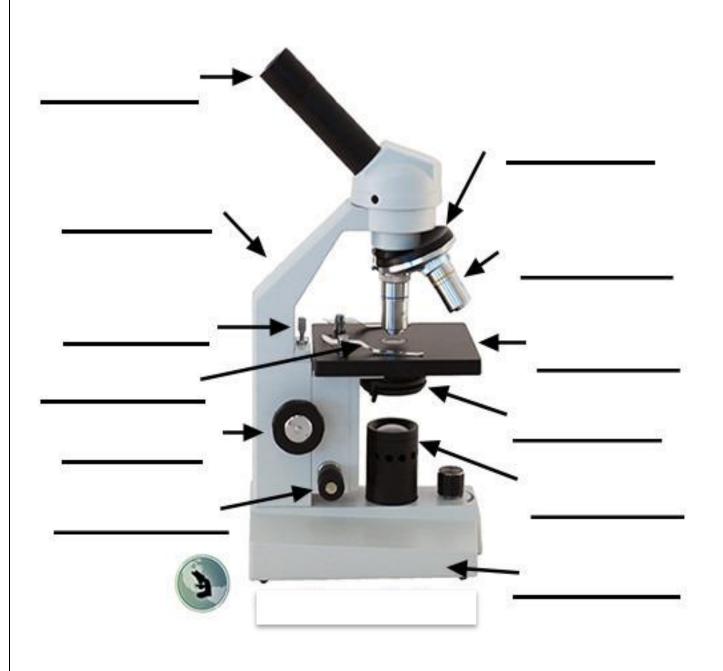
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#### **Laboratory Safety Rules**

- 1. General Conduct Every individual that enters the laboratory has a duty of care to other users, and is expected to behave in a manner that does not compromise the safety of others.
- 2. Eating or drinking are not allowed anywhere within the laboratories.
- 3. Laboratory coats must be worn for each practical session.
- 4. Enclosed footwear must be worn (thongs and open sandals are not allowed).
- 5. Avoid placing any object in your mouth (pencils, pens, fingers etc).
- 6. Cover any open cuts on hands and other exposed skin surfaces and/or wear gloves.
- 7. It is essential that all books, writing materials and other personal belongings are kept separate from this working area for the duration of the practical session.
- 8. No slides or cultures are to be removed from, or brought into the laboratory without permission of the teaching staff.
- 9. Students will not use any histology/pathology equipment in the laboratory except under the direction and supervision of the teaching staff.
- 10. Familiarise yourself with the location and operation of the emergency items (First aid kit, Fire extinguisher)

### Session 1

### Name the part of microscope



#### How to use microscope

- 1. Turn the revolving turret, so that the lowest power objective lens (eg. 4x) is clicked into position.
- 2. Place the microscope slide on the stage and fasten it with the stage clips.
- 3. Look at the objective lens and the stage from the side and turn the focus knob so the stage moves upward. Move it up as far as it will go without letting the objective touch the coverslip.
- 4. Look through the eyepiece and move the focus knob until the image comes into focus.
- 5. Adjust the condenser and light intensity for the greatest amount of light.
- 6. Move the microscope slide around until the sample is in the centre of the field of view (what you see).
- 7. Use the focus knob to place the sample into focus and readjust the condenser and light intensity for the clearest image (with low power objectives you might need to reduce the light intensity or shut the condenser).
- 8. When you have a clear image of your sample with the lowest power objective, you can change to the next objective lenses. You might need to readjust the sample into focus and/or readjust the condenser and light intensity. If you cannot focus on your specimen, repeat steps 3 through 5 with the higher power objective lens in place. **Do not let the objective lens touch the slide!**
- 9. When finished, lower the stage, click the low power lens into position and remove the slide.

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