

Protocol for Using Immersion Oil Lenses:

- Locate sample with a low power objective, swing oil lens into position without oil to insure correct location of specimen. After finding the sample, move the oil objective halfway to the next objective.
- Place a drop of immersion oil onto the coverslip of the slide where the objective will be positioned
- Slowly rotate the oil immersion objective to come in contact with the bead of oil on the slide. (If there are air bubbles or the image is poor, there may be air caught between the lens and the slide. Rotate the objective back and forth to remove the captured air from the front lens).
- Focus on the specimen using the fine focus only. Do not use the coarse focus. The slide and lens are very close and contact between may damage the front lens.
- If you want to change slides rotate the nosepiece to the lowest power objective or empty slot before removing the slide.
- When you are finished, remove the slide as in the previous step. To clean the lens, take two sheets of lens paper in the drawer under the microscope, add a little “Fantastik” (blue bottle) to the corner of the lens tissue, to wipe extra oil off of the lens. With the dry portion of the lens tissue, dry off the liquid cleaner.
- The oil immersion lenses need to be cleaned to prevent oil from attracting dust, or evaporating and leaving crystals on the lens.
- Take great care to not rotate the 20X or 40X non immersion objectives into the oil. The oil will damage the optical quality of the dry objective.