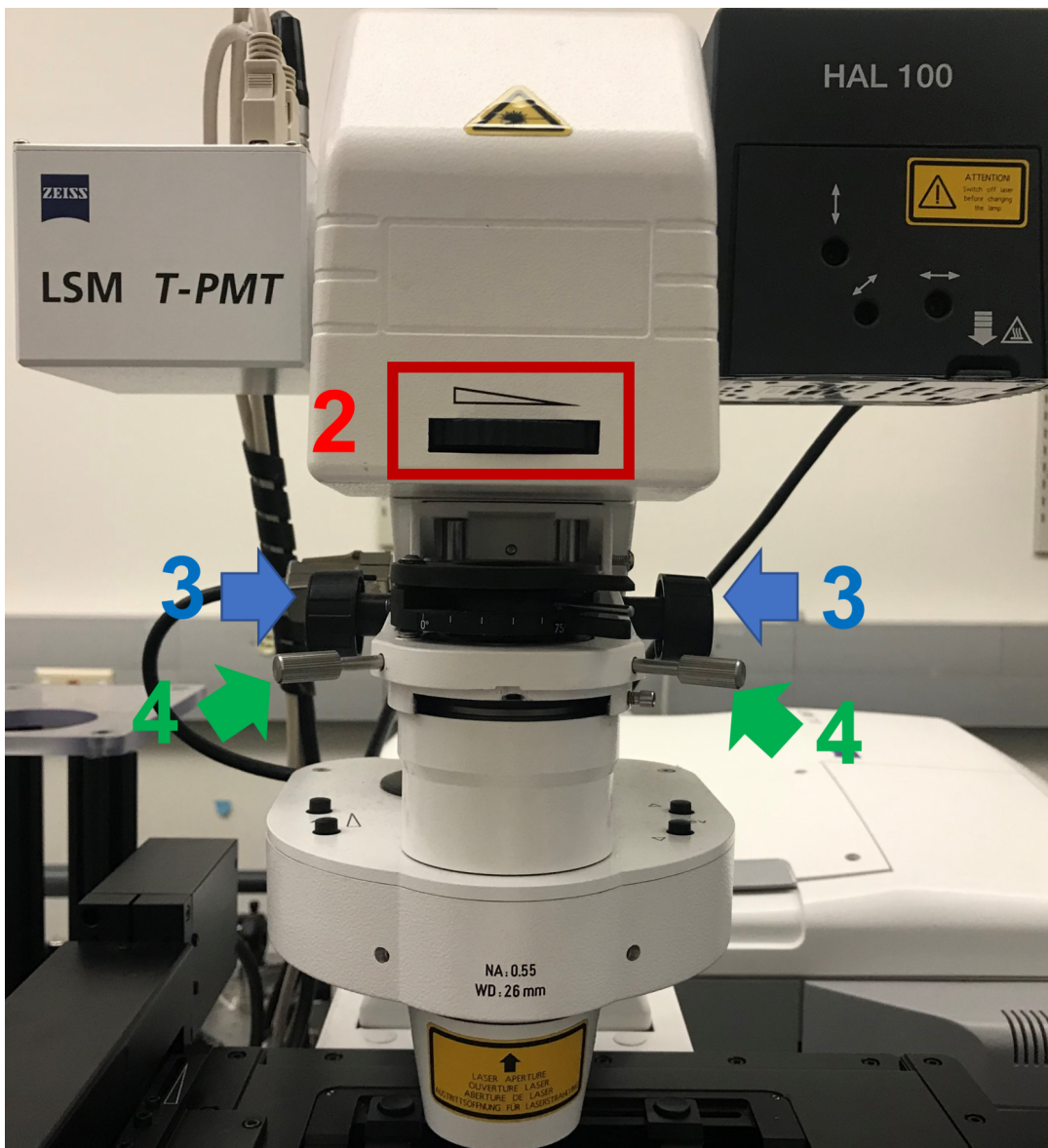


# Köhler Illumination

## Köhler Illumination for Brightfield

Köhler illumination is a method for evenly illuminating the sample with white light. This method is very important for brightfield imaging in widefield microscopy, and for using the T-PMT for confocal imaging. Brightfield illumination from light source focuses onto the sample via condenser, as a result extra steps are necessary to ensure the light-path is focused on the sample.

1. Bring the sample into focus
2. Close the field diaphragm (**2**) until you can see at least one edge
3. Adjust condenser height (**3**) until the edges of the diaphragm are crisp. You'll see an octagon.
4. Center the diaphragm (**4**) using the two centering screws
5. Open the field diaphragm (2) just until the image fills the field of view (FOV)



Link for setting up Köhler illumination

ZEISS Microscopy How-to: Set up Köhler Illumination on your ZEISS Axio Imager (Upright):

<https://www.youtube.com/watch?v=Qk8dbT-N1xw>

MicroscopyU has a great interactive on guide for Köhler illumination:

<https://www.microscopyu.com/tutorials/kohler>

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Revision #3

Created 9 June 2022 14:56:56 by Ni Putu Dewi Nurmalasari

Updated 17 January 2024 17:16:29 by Ni Putu Dewi Nurmalasari