## Information for our records:

Full name(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SDU mail address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fill out the following forms:

Basic user information: <https://forms.office.com/r/XW7phx9i06>

Basic project and funding information: <https://forms.office.com/r/PcxtvTsyqW>

* If project information has already been submitted e.g. by your supervisor or colleague, just indicate the project title and PI here: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(see background for this information collection at <https://dambic.dk/index.php?page=booking>)

## Aim of the imaging you would like to perform

The purpose of this short questionnaire is to find out how we can help you in the best way possible with your imaging research question. Please take a few moments to fill it out. Thanks ;)

1. Please describe your research question.
2. Please describe how you aim to answer your research question using a microscopy technique.
3. Which magnification would you like to use? i.e. do you want to have an overview of your sample (10x or 20x) or higher magnification images (60x or 100x)? Which features do you want to investigate? Do you want to measure something specific?
4. How will you prepare your samples?
5. Which types of images do you have in mind for your study and which type of microscope would be required? (widefield, confocal, super resolution, etc.)
6. Which fluorophores do you plan to use? Please have their name, excitation and emission wavelengths ready. The fluorophore spectra viewer at: <https://www.thermofisher.com/order/spectra-viewer> can be a great help.
7. If mounting media is used, which type is it?
8. If you use cover glass for your samples, the ideal one is #1.5 thickness (corresponding to 0.17mm). Please explain if you intend to use any other thickness or quality.
9. How will you manage and analyze your images? Which kind of image analysis do you have in mind for answering your research question? You could for instance be interested in fluorescence overlap/correlation analysis, cell size vs. protein expression, 3D volume calculations, etc.
10. Have you used microscope equipment before? If yes, which techniques and how much and recent experience do you have?
11. Do you plan to use microscope often and by yourself?

Before the training, please read the following:

<https://dambic.dk/index.php?page=booking>

<https://dambic.dk/index.php?page=dambic-guidelines>

<https://dambic.dk/index.php?page=Publ-policy>

<https://dambic.dk/index.php?page=data-storage>

Also, depending on your experience with microscopes, you may benefit from preparing yourself by reading about how a microscope works. See for instance these resources:

* <https://www.microscopyu.com/microscopy-basics/components> - the first few sections.
* <https://www.microscopyu.com/tutorials/tepaths> - simple overview
* <https://www.olympus-lifescience.com/en/microscope-resource/primer/java/confocalvswidefield/> - differences between confocal and widefield
* <https://www.microscopyu.com/techniques/confocal/critical-aspects-of-confocal-microscopy> - good to know
* <https://www.microscopyu.com/tutorials/imageformation-airyna> - good to know
* <https://www.microscopyu.com/techniques/confocal/resonant-scanning-in-laser-confocal-microscopy> - good to know about resonant scanning, but detailed, so just to get the idea