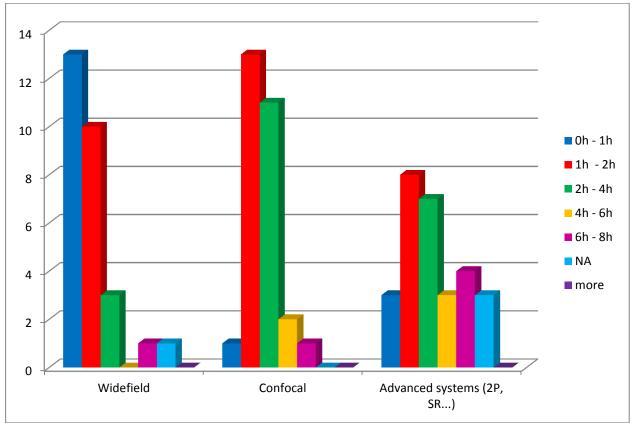
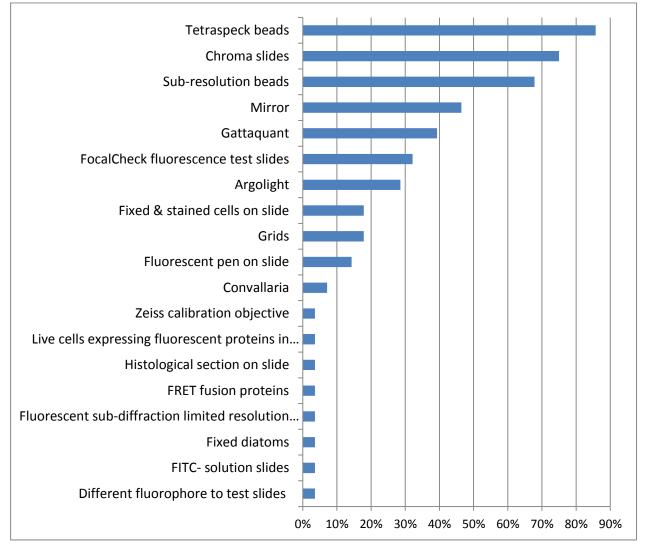
# Results of the Survey on microscope maintenance



How much time do you spend on maintenance\* per system per month?

# Proportion of participants using the following samples



### Additional comments:

Subres/tetraspeck - distance to coverslip. Should be possible to get a sample with a fixed/close, or maybe multiple, positions to the coverslip.

Good protocols for preparing bead samples would be very useful! 3D test samples would be useful.

The shelf-live is too short for certain test samples - gattaquant,

How to exclude the human factor in QC? We need an automated approach for the QA/QC for the test samples

How to define specification? e.g. when do you consider a psf not good? specs from supplier. Need cheap test slide.

Doesn't mimic the sample prep;

### Maintenance of widefield microscopes



For each task, % of total count of frequency, broken down by importance rating. Color show details about frequency.

#### Comments:

Depends if the system is only a WF or if it's also used for super-resolution

## Maintenance of confocal microscopes



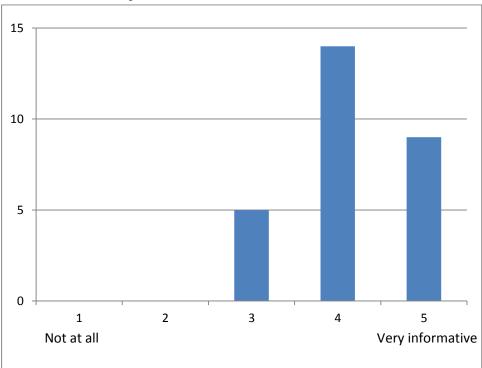
For each task, % of total count of frequency, broken down by importance rating. Color show details about frequency.

#### Comments:

Depends a bit on the usage / It depends a lot of application

### Maintenance on other systems

- Robot slide scanner
- Super Resolution:
  - Gattaquant, Gold beads, weekly
  - every day
  - > STED
    - resolution test essentially before each usage
    - PSF with Gattaquant, experiment-based
    - PSF once a year, STED alignment upon request
    - same maintenance as for confocal microscopes + co-alignment checking
  - > SMLM
    - every two month
    - testing every month before/after imaging
  - > SIM
    - PSF measurement once every three months in average
    - same as for confocal microscopes
- Multiphoton:
  - 2PH tomography system, light path cleaning and adjusting
  - illumination field of view once every half year (other tests done on confocal part)
  - Multi Photobucket
  - every week
  - same maintenace as for confocal microscopes
  - laser alignment, power measurement, weekly to monthly
- 🛠 EM
  - weekly alignment of beam (astigmatism)
- Light sheet
  - thorough cleaning of chamber,
  - lightsheet alignment
- FLIM
  - > instrument response function, counts per molecule, before each session



# How much did you like this format of discussion?

### Additional comments:

- More time for questionnaire and interaction in the group
- Discussion is very helpful. The concept of filling out online forms is flawed (how to fill out as a group? Can't take average values, takes away from discussion time. Scrap that part)
- Discussion useful but questions too many
- Very good idea to use google docs