

## ELMI Core Facility Day - Survey

Page 1 of 8 - Untitled Page

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The survey aims for a snapshot of the current situation of Imaging Facilities worldwide.

It collects data on facilities' issues for the Core Facility Session workshops, but also other wishes and interests of CFs.

The survey should be completed ASAP, but we leave it open until end of 2019, We would like to have a broad statistical and highly relevant data basis. This will also help us to get enough input to engage in lively discussions and future interactions at upcoming meetings.

The survey consist of six categories, all together to be completed in about 30 minutes, hopefully not more. Therefore, please answer the last question of the survey!! But we think its good invested time for the CFs.

Some questions can mostly be answered only by facility heads. So please only answer questions, when you are sure about your knowledge for the right answer. We did not want to have seperate surveys for heads/directors and staff.

Please use the opportunity to add additional points for discussion at the end of the survey in the free text field.

The data collection is anonymous by default. Only statistics and network information are collected by the webserver. However, the combination of questions might allow us to identify you indirectly. But we will keep these personal data confidential!

We plan to make the whole data accessible for the community within 2019/2020. Your feedback will be used in a future, common publication from us. Moreover, this data will help in negotiation and discussions with local funding bodies, companies or any type of lobbying work.

If you find mistakes in the survey, have the feeling a certain question is hard to understand and should be changed immediately, please send a mail to: [Roland.Nitschke@biologie.uni-freiburg.de](mailto:Roland.Nitschke@biologie.uni-freiburg.de)

Laurent Gelman, Roland Nitschke

### CAREER MANAGEMENT and PERSPECTIVES- in CFs

Only a few questions at the beginning of the survey (labelled with red stars) are mandatory to obtain statistically relevant data and allow proper data analysis.

#### 1. Country of Facility \*

#### 2. City of Facility \*

#### 3. Please give the name of your facility. We need this to detect double entries from facilities for proper statistics.

#### 4. Where do you work?

##### Your institution type affiliation? \*

- University
- non University academia research institute
- Industry
- Other (please specify)

#### 5. Your Position \*

#### 6. Your professional background \*

#### 7. Your main Expertise / Research Field in the facility \*

Add a Field	Field Properties	Form Properties
Single Line Text	Number	
Paragraph Text	Checkboxes	
Multiple Choice	Drop Down	
Name	Date	
Time	Phone	
Address	Web Site	
Price	Email	
Matrix Choice	File Upload	
Section Break	Page Break	
Signature	Media	

8. Do you have a defined role description in your contract?

9. Please answer the following questions:

	Yes	No
Do you have a clear career development perspective?	<input type="radio"/>	<input type="radio"/>
Are you member of the local Union?	<input type="radio"/>	<input type="radio"/>

10. Do you have a permanent or a fixed term contract?

11. If you have a fixed term position, how long is your current contract in years?

12. If you have a fixed term position, how often was your contract already prolonged (even without a change of the type of work you really do in the CF)?

14. If you have a permanent position give your age, when you received the permanent contract.

15. What's the worst thing about your job/role?

16. What's the best thing about your job/role ?

17. Would a site as GlassDoor but specific for Microscopy Facilities, where you could read reviews from people working in a CF, compare salaries, prepare for interviews, be interesting for you?

(<https://www.glassdoor.co.uk/index.htm>)

- Yes  
 No  
 No clue, never looked at GlassDoor

Continue

1

Page 1 of 8

**More facility staff related questions (Some questions can only answered by facility heads. If you are not sure what to answer skip or choose "I don't know")**

Questions 18 -22 include only staff related to Light microscopy, Image analysis, cell culture, wetlab. Staff related to EM and FACS give in 22b and e, if possible.

**Please note, that we want to have the number of full time position equivalent (FTE) and not the real number of employees.**

18. No. of SCIENTIFIC facility staff (FTE) in your facility?

19. No. of SCIENTIFIC facility staff (FTE) in your facility with permanent positions?

20. No. of the Scientific facility staff (FTE) dedicated only to image analysis/data evaluation programing tasks?

21. No. of TECHNICAL staff (FTE) in your facility dedicated to facility work only?

22. No. of TECHNICAL staff (FTE) in your facility with permanent positions?

22b. No of SCIENTIFIC staff (FTE) related to EM

22c. No. of TECHNICAL staff (FTE) related to EM

22d. No. of SCIENTIFIC staff (FTE) related to FACS

22e. No. of TECHNICAL staff (FTE) related to FACS

23. Questions concerning facility staff training and education

Allowance and real attendance per year for

	Not allowed	never go	0	1	2	3	>3
Scientific staff in national or international courses/conferences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Technical staff in national or international courses/conferences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scientific staff only in national courses/conferences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Technical staff only in national courses/conference	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scientific staff in job exchange programs at other labs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Technical staff in job exchange programs at other labs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. How do you monitor facility staff time?

- Manual monitoring by topic (e.g. user support/introduction, system maintenance, ordering, R&D, ...)
- Automatic monitoring by special software tool(s)
- A mixture of manual and automatic monitoring
- Only general working time is monitored
- No specific working time monitoring
- No general and no specific work time monitoring

25. Do you, and how and for what tasks do you monitor/register facility staff time? (Multiple answers possible)

- Only general working time is monitored by employer
- No specific working time/tasks are monitored
- Semi-automatic monitoring by software tools
- User introduction time is registered
- Project specific times (like EM or Immuno sample prep.)
- Full service tasks (like EM or SR image recording)
- Custom image analysis time
- Custom macro programming
- Other

## General Questions about the Facility

### 26. Your facility type affiliation?

- Light Microscopy
- Electron Microscopy
- BioImage Analysis
- FACS
- Other (please specify)

### 27. Is an image or/and data analysis facility available for your users, if you do not offer this service in your facility?

### 28. Your institute's access policy for your facility?

- All researchers (internal/external)
- Researchers affiliated to hosting institution (e.g. collaborators)
- Internal members of the institution only
- Other

### 29. Number of Facility users per year:

### 30. Number of Workgroups using the facility per year:

### 31a. Light microscopy Facility instruments usage hours per year

### 31b. EM Facility instruments usage hours per year

### 31c. FACS Facility instruments usage hours per year

### 31d. App. number of Image Analysis projects per year

### 32. Does the facility have official user rules?

### 33. How do you train new users on handling of instrumentation and applications?

- Ad-hoc one-on-one training by lab staff
- Scheduled classroom trainings by lab staff
- Internal online resources
- External online resources
- Courses offered by vendors, carried out in my lab
- Courses offered by vendors, carried out in the vendor's facilities

### 34. Many vendors offer training courses. Please check what you agree to.

- Can be an effective relieve for my internal lab staff
- Can be a source for my lab staff to refresh their own knowledge (train the trainer)
- Would make use of, if pricing is attractive
- Would make use of, if they are carried out in my lab
- Remote courses and online resources can complement traditional classroom training
- Other ideas

**35. How does the facility manage instrument usage?**

- Online booking system
- Pen and paper calendars
- Online booking system + log sheet has to be signed at the instrument
- Facility staff manages instrument time-slots
- Other (please describe)

**36. If you use an online booking system, please give the software name and if commercial or non-commercial.**

**37. Please answer the following questions:**

	Yes	No	No, but plan to use it	No, but would like to know how to do it	No, is prevented by protection of personal data
<b>Do you log real instrument usage time?</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Do you log real image analysis workstation usage time?</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Do you log software package usage time ?</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>If someone books, but does not show up. Do you charge?</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>If someone books 3 hours, but uses only one hour. Do you charge (may be less) also for this non-used time?</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**38. How do you monitor publication output with facility usage or scientific input?**

- No systematic monitoring
- Automatic monitoring (software solution)
- Manual monitoring (e.g. yearly PubMed search)
- Users actively send publications to the facility
- Users are encouraged by special rewards the facility provides
- Combination of actively and manual solutions
- Other

**39. Do you have a public accessible facility website in place?**

**40. Do you present a detailed description of the facility equipment on the website?**

**41. Do you have a board/committee that you report to?**

If yes, please indicate what this board/committee is responsible for.

	Yes	No
<b>Is there a committee/board in place?</b>	<input type="radio"/>	<input type="radio"/>

**42. Tasks of board/committee**

	Yes	No
<b>Strategic decisions (location, instrumentation, large investments, ..)</b>	<input type="radio"/>	<input type="radio"/>
<b>Budget amount</b>	<input type="radio"/>	<input type="radio"/>
<b>Budget spending (&gt; 5 or 10 k€)</b>	<input type="radio"/>	<input type="radio"/>
<b>Facility staff contracts</b>	<input type="radio"/>	<input type="radio"/>

Business trips	<input type="radio"/>	<input type="radio"/>
Facility evaluation	<input type="radio"/>	<input type="radio"/>

### Financing and Finances of the facility (should be only answered by facility heads)

43. Does the facility charge for instrumentation (usage) time?

44. Does the facility charge for facility staff time?

44. Does the facility have to pay basic running costs like building costs (incl. electricity, heating, ventilation, water, room cleaning) and possibly lab space rent?

45. Budget related questions:

Do you have a budget and what amount for:

	No	2 k€	5 k€	<10 k€	<25 k€	<50 k€	< 100k€	>100 k€
Basic costs (phone, furniture, chairs, office supplies)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consumables (e.g. labware, bulbs, immersion oil)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Repairs of any kind	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Small equipment (limit 5-10 k€ per instrument)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer upgrades/replacements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hardware maintenance contracts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software maintenance contracts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New software licenses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
General budget usable for all above	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Travel cost/Conferences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Large investments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

46. Full budget authority for the facility head?

- Yes
- Yes, up to a certain limit
- No
- I do not know

47. If you have a budget authority limit, how much is it per purchase order (€)?

48. Full authority for the facility head over income by user fees ?

- Yes
- Yes, but it is reduced by a certain amount of the staff salary



maintenance								
B) A + discount on service work hours	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C) B + discount on parts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D) C + Full coverage without lasers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E) D + lasers included	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F) E + OS (WIN) upgrades included	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

54. Please answer the following questions concerning the real system down time or for repairs of parts send in to companies like objectives, xy-tables:

	1 week	2 weeks	3 - 4 weeks	5 - 8 weeks	> 8 weeks
With service contract: Mean time for final repair	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Without service contract: Mean time for repair	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mean time, when lasers had to be changed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mean time for objective repair or service	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

55. No. of (2-P) lasers with separate service contracts?

56. Repair time expectations and experienced real repair times for 2-P lasers.

	1 week or shorter	2 weeks	3 weeks	4 weeks	5 - 8 weeks	> 8 weeks
Expected with full service contract	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Real with full service contract	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expected without service contract	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Real without service contract	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

57. If you have service contracts, please indicate the reasons.

- Cheaper rates than on-demand repairs
- It minimizes instrument down time
- There is no alternative instrument available that can be used in case of breakdown
- There is otherwise no budget for repair
- Other (please specify)

58. If you have no service contracts, or only some contracts, please indicate the reasons.

- too expensive for the number of systems in the CF
- even for single heavy used system too expensive
- covering by own budget much cheaper
- Other (please specify)

59. What is your opinion about an IT hard- and software (incl. OS) upgrade contract?

- interesting
- Interesting, but hard to finance through (grant) resources
- we can do it much cheaper with own IT resources
- not interesting
- Other (please give your ideas)



**Instrument Questions Part I****Available instruments for specialized applications (in alphabetical order) in the facility**

60. No. FCS

61. No. FLIM

62. No. High Throughput Screening (like PE Opera, GE machines, Yokogawa CQ1...)

63. No. Laser Cap/Ablation

64. No. LightSheet

65. No. PALM/STORM

66. No. SIM

67. No. Slide Scanner

68. NO. SR-Spinning Disk

69. No. STED

**Instrument Questions Part II****Available standard instruments in the facility**

If one of the specialized instruments in Part I contains also a standard option do not count it here again!

70. No. point scanning LSM

71. No. Spinning disk

72. No. TIRF

73. No. High-end wide-field (e.g. live cell incubation, ratio imaging, deconvolution, FRAP unit)

74. No. high-end Stereo (e.g. motorized table, high end camera, High NA objective)

75. No. of low-end imaging instruments (e.g. simple widefield fluorescence microscopes, stereo microscopes) in the facility?

75b. No. of EM (TEM,SEM)

75c. No. of FACS machines

75d. Name here any other special instrumentations like Serial Block Face, organismn sorters, clearing machines,....

**ELMI CF DAY Session 2  
System Maintenance and Quality Checks**

76. What tools do you know, use or have used for system checks and performance evaluation?  
Given in alphabetical order!

	Know	Use	Have used	Do not know
Argolight slide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Brakenhoff slide (SIP chart)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bead slide (self made)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Calibration objective from microscope vendor (e.g. Zeiss)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Chroma slide or similar from other sources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fluo Cells slide (Molecular Probes)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gatta-Beads (Gattaquant)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gold bead slide (Leica or self made)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mirror surface slide (many sources)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nanoruler (Gattaquant or selfmade)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Power meter in slide format	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PSF check slide (commercial)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quantum dot slide (self made)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scientific Valley slide (commercial)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Siemens Star slide (commercial)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tetra Spec bead slide (Molecular Probes)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
USAF slide (non fluorescent - many sources)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
USAF slide (fluorescent - Many sources)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

77. Other samples you know of or have used. Please give type, name and source, if you want to share with the community.

78. How often does your facility perform the following maintenance and/or quality checks (Please check all that apply):

on demand   
 daily   
 2-3 days   
 once per week   
 14 day   
 once a month   
 > month   
 never   
 not enough time

Visual inspection and cleaning of the microscope	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regular intense objective cleaning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Inspection of the objective under stereo-microscope or other high magnification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Laser (LED, arc lamp) power measurement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Laser (LED, arc lamp) power over time measurement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scanner calibration (linearity)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scan-field rotation precision	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bi-directional scanning precision	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AOTF calibration (linearity)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pinhole alignment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regular PSF measurements with beads	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Resolution (FWHM) based on mirror surface	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Resolution (FWHM) with thin fluorescent film	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Signal to noise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PMT linearity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
co-alignment of colors in xy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
co-alignment of colors in z (parfocality)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Homogeneity of Illumination (field of view)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sample holder flatness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
xy table precision	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
xy table repeatability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
z drive accuracy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
dual camera alignment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

79. Suggestion for other valuable measurements for system evaluation

80. Which of the following software tools for PSF measurement evaluation you know and/or use?

	Know	Use	Have Used	Do not know
MetroloJ	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
MIPs for PSF (Gelman, Basel)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PSFj (Knob Lab)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PSF estimation tool (Cardinale, Baumgartner)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PSF distiller (SVI - commercial tool)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PSF calculator (ZEISS - commercial tool)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
other (give the name and source in the box at the end of the survey)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

81. Would you like to attend an intensive course on "Advanced system maintenance" (e.g. from a manufacturer for a specific system)?

- Yes
- Yes, but depends very much on the price
- No
- No, but surely someone else from the facility

82. Give your preferences what should be covered (Preference: Low =1; Medium = 2; High = 3)

	1	2	3
Objective cleaning (intense)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
General system cleaning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In-depth theory of system components and beam path	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
System troubleshooting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software tools for maintenance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hardware tools for maintenance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Maintenance of computer/ Upgrades OS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scanner calibrations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AOTF calibration (wavelength)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AOTF calibration (power)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pinhole calibration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Color alignment of objectives and filters	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parfocality check of objectives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Objective centricity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Power measurement (general)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PSF measurement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Resolution measurement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PMT linearity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Signal to noise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spectral detector calibration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
xy-Stage calibrations (level, precision, repeatability)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
z drive accuracy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

83. Further topics you would like to see covered in such courses?

84. Maximum price you would be willing to pay for such a 2 or 3 day course (covering all checked topics above) with possibly 10 - 20 attendees in a company head-quarter?

85. Maximum price you would be willing to pay for such a 2 or 3 day course (covering all checked topics above) given individually on-site in your institute for a small number (possibly 5-10) local attendees?

86. What option would you prefer independent from the price tag?

- local
- local, even when price would be double compared to company site
- at company site
- depends on pricing

7

[Continue](#) [Previous](#)

Page 7 of 8

**ELMI CF DAY Sessions 2**  
**IT issues - Data management, safety and OS upgrades**

87. How is your IT equipment in the facility organized ?

	Yes	No	Do not know
Domain with Active directory (AD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AD with network based User accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AD with User accounts based on each computer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Individual User accounts on each computer locally	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Only one account on each computer shared by all users	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

88. Is your facility IT equipment serviced by your CF staff

89. IT service and safety questions concerning your microscope computer set-ups

	Yes	No	Sometimes
Do you regularly upgrade the OS with updates and patches?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Are your computers connected directly (via a Firewall) to the Internet?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do you use antivirus (AV) software?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do you automatically upgrade the AV software?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Are you unsure about what AV software to use for your recording systems?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do you upgrade other software routinely (browser, PDF reader, Java) ?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do you allow remote connections in general?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do you have policies for remote connections by vendors?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have you been allowing remote connections by a vendor in the past?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

90. Questions concerning OperationsSystems (OS), number of systems using a specific OS

	0	1-3	4-6	7-10	>10
Windows XP machines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Windows 7 (8) machines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Win10: Enterprise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Win10: LTSB 2014 or 2016	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Win 10: LTSB 2019	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

91. Are you forced to upgrade your computers to Windows 10 by the end of the year?

92. Do you think your IT would have enough knowledge (when supported by manufacturers instructions and specific hardware packages) and staff capacity for upgrades?

93. What is the total budget you have reserved for Win10 upgrades for the facility?

94. Does your facility operate and manage an on-site research data storage solution or a file server for your users?

95. What is the total storage capacity (in TB) of this server?

96. How much storage (in TB) you allow per workgroup (answer 0, if no specific limit is defined)?

97. Do users have to pay for file server storage?

98. Do you offer an image database service (e.g.OMERO, IMS or Columbus)?

99. Do the users have direct storage access from your microscope systems to their own (workgroup) file server storage?

100. What is the network speed inside your facility?

101. Do you have general rules & regulations for data storage at your imaging systems or file server(s)?

- Yes, on imaging systems
- Yes, on file servers
- Yes, for cloud storage
- No

102. No. of offline image processing workstations in the facility?

103. Do you offer centralized computing resources (dedicated servers) in the facility for:

	Yes	No	Set up in progress	In planning phase	Like to have
Image Deconvolution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deep Learning (e.g. U-Net or similar)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knime	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High Power computation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visualization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

104. Do you provide a flexible centralized server with virtual machines for multiple offline processing, visualization, deconvolution and other tasks?

105. Further comments, ideas and questions:

106. How long (min) did it take for you to fill out the survey?

**Thanks a lot for your answers. We are looking forward for vivid discussions about this survey on the ELMI Core Facility day day.**

[Submit](#) [Previous](#)

8

Page 8 of 8

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 Add Field