

Bioimage Analysis Survey

The purpose of this study is to inform our priorities and collaborative efforts in the Center for Open Bioimage Analysis. Data resulting from this survey may be used in future publications, but individual responses to this survey will remain anonymous and will be used only in aggregate form. Any potentially identifying information, like demographics, will not be linked to your survey responses. By proceeding with this survey, you are agreeing that you have read, understand, and consent to this use of your anonymized data. If you have questions, please email COBA@broadinstitute.org.

* Required

1. I agree to these conditions *

Mark only one oval.

- ☐ Yes
- ☐ No

Your Experience With Image Analysis

2. What image analysis tools have you used before? (check all that apply) *

Check all that apply.

- ☐ Commercial software that comes with my microscope (Columbus, Elements, Softworx, etc)
- ☐ Other commercial software (Imaris, Volocity, etc)
- ☐ Open source point-and-click software (ImageJ, FIJI, Icy, CellProfiler, etc)
- ☐ Computational libraries and scripts (scikit-image, MATLAB, etc)
- ☐ None

Other: ☐

3. What image analysis tools do you use the most? *

Mark only one oval.

- ☐ Commercial software that comes with my microscope (ie Columbus, Elements, Softworx, etc)
- ☐ Other commercial software (Imaris, Volocity, etc)
- ☐ Open source point-and-click software (ImageJ, FIJI, Icy, CellProfiler, etc)
- ☐ Computational libraries and scripts (scikit-image, MATLAB, etc)
- ☐ None
- ☐ Other:

4. What kinds of images do you commonly want to analyze?

Check all that apply.

	2D	2D + time	3D (<3000x3000x100)	3D + time	3D (SPIM/large volume)	3D large volume + time
Brightfield/DIC/phase-contrast of cells or organisms from manually selected fields	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brightfield/DIC/phase-contrast of cells or organisms from an automated microscope	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluorescent images of cells/organisms from manually selected fields	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluorescent images of cells/organisms from an automated microscope	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Histologically stained tissue sections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fluorescently stained tissue sections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electron microscopy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Imaging mass spectrometry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Imaging flow cytometry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Superresolution (PALM/STORM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Autofluorescence imaging (ie FLIM)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. How do you generally go about solving an image analysis problem? Check the approach(es) you use the most. *

Check all that apply.

- ☐ Sit down with a tool I know and start playing with the data
- ☐ Ask a friend or colleague to help me
- ☐ Ask on [forum.image.sc](#)
- ☐ Look up solutions generally on the internet (Google)
- ☐ Look up solutions on a particular website (please list below)
- ☐ Look up solutions in the scientific literature

Other: ☐

6. What image analysis problems (i.e. finding nuclei, tissue analysis, analysis of super-resolution data, etc) do you think are generally well-solved?

7. What image analysis problems (i.e. finding nuclei, tissue analysis, analysis of super-resolution data, etc) do you wish had easier/better solutions?

Your Scientific Background

8. Which of the following roles best describes you? *

Mark only one oval.

- ☐ Undergraduate/Graduate student
- ☐ Postdoctoral fellow
- ☐ Research scientist
- ☐ Facility director
- ☐ Facility staff
- ☐ Image analyst
- ☐ Principal investigator
- ☐ Clinician
- ☐ Other: _____

9. Which of the following do you have significant formal training in or experience with? Select all that apply.

Check all that apply.

- ☐ Physics/Biophysics
- ☐ Chemistry/Biochemistry
- ☐ Cell/Molecular Biology
- ☐ Developmental Biology
- ☐ Medicine
- ☐ Statistics/Biostatistics
- ☐ Computer science
- ☐ Computer vision
- ☐ Deep learning

Other: ☐ _____

10. Where do you currently primarily work? *

Mark only one oval.

- ☐ Africa
- ☐ Antarctica
- ☐ Asia
- ☐ Australia
- ☐ Europe
- ☐ North America
- ☐ South America

11. How would you describe your work? *

Mark only one oval.

	1	2	3	4	5	6	7	
Nearly entirely imaging (sample prep, optimizing/deciding on imaging modalities, acquiring images, etc)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Nearly entirely image analysis (finding the right tools to analyze a particular experiment, optimizing the analysis, data m

12. How would you rate your computational skills? *

Mark only one oval.

	1	2	3	4	5	6	7	
Very Poor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excellent

13. How would you rate your comfort in developing new computational skills? *

Mark only one oval.

	1	2	3	4	5	6	7	
Very Uncomfortable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very Comfortable

14. How interested are you in learning more about the following topics? *

Mark only one oval per row.

	Not at all interested	A little interested	Moderately interested	Very interested
Image analysis theory	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
General image analysis practices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Image analysis practices particular to my field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Learning to use a particular software tool	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deep learning as applied to image analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

15. For any topic(s) you're interested in, how interested would you be in learning about them in the following ways? *

Mark only one oval per row.

	Not at all interested	A little interested	Moderately interested	Very interested
Scholarly "best practices" article	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Written step-by-step tutorial	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Video tutorial	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interactive webinar	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
One-on-one "office hours" with an expert	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In person seminar/tutorial lasting <1 day	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Multiday workshop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

More On Improving The Image Analysis Community

16. Please select any of the following you have attended in the past

Check all that apply.

- ☐ Workshop/tutorial on imaging or image analysis
☐ Conference session on imaging or image analysis
☐ Conference dedicated to imaging or image analysis

Other: ☐ _____

17. How would you prefer to be notified about image analysis workshops, sessions, or conferences being planned?

Mark only one oval.

- ☐ Word of mouth
☐ My local microscopy facility
☐ Postings on [image.sc](#) forum or microforum
☐ Twitter
☐ Email list
☐ Other: _____

18. Would you be interested in subscribing to a COBA mailing list (announcing workshops, new tools, collaboration opportunities, etc)? If yes, you will be taken to a page to subscribe at the end of this section.

Mark only one oval.

- ☐ Yes *Skip to section 5 (COBA email list)*
☐ No

19. Are there any image analysis workshops, tutorials, or conferences that you have participated in and found particularly helpful? If yes, what made them beneficial?

20. Are there any conferences you've attended in the past that you think would particularly benefit from the addition/expansion of image analysis offerings?

21. What specific topics (ie overviews of a particular tool, comparisons between pieces of software, or how to use a certain tool for a certain kind of experiment) would you like to see prioritized for future image analysis workshop and tutorial offerings?

22. What do you think analysis tool CREATORS (such as software developers) could/should do to make image analysis better and more successful? How best could we encourage them to do it?

23. What do you think analysis tool USERS (such as microscopists) could/should do to make image analysis better and more successful? How best could we encourage them to do it?

24. Any other thoughts?

COBA email list

If you would like to sign up for email updates from COBA, please click the link below to sign up for our email update list (unsubscribe anytime). This will not otherwise affect the handling of your survey data.
<http://eeprl.com/q2v0t5>

This content is neither created nor endorsed by Google.

Google Forms