



GloBIAS

CZI initiative and future association

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GloBIAS– history

- based on the successful initiative "Network of European Bioimage Analysts" (NEUBIAS),
- NEUBIAS started in 2016 with support through COST Action #15124.

GloBIAS aims to pursue the NEUBIAS activities **worldwide** & provide the BioImage Analysts' community with **a sustainable base through a formal society**.

GloBIAS- aims

- supported by a grant of the Chan Zuckerberg Initiative (until September 2025)
 - part of *Advancing Imaging Through Collaborative Projects*
 - hosted by German BioImaging
- a non-profit association for BioImage Analysts'
- officially launching in 2024
- a self-sustained association with membership fees and community activities

GloBIAS– contributors

Who: the steering committee of the grant (12 people) together with 40 + volunteers and one Community Manager .

Everyone interested in Biolmage Analysis is welcome to join!

Please contact us at info@globias.org

- Life Science Researchers
- Imaging Scientists
- Microscope engineers and developers
- BioImage Analysts
- BioImage Analysis Software Developers
- ..anyone involved in the biological image analysis process
- PhD students
- PostDocs/ Early career scientist/ group leader/ professor
- Facility staff/ Research lab based staff
- University/ Research Institute/ Company based

GloBIAS – main missions

- Knowledge exchange between members
- Development of a curriculum for BioImage Analysts
- Creation and maintenance of repositories with training materials
- Consolidating standards for bioimage analysis
- Regularly organising in-person events
- Regular online events

GloBIAS- workgroups

How: regular online meetings working on milestones of the project

Not everyone participates in all work -groups – split by interest/ time

- Workshop 24
- Society foundation
- Survey 24
- Training & Education
- Publication
- Communications

Progress & Achievements so far – part 1

Work group: Workshop 24

- Nov 5, 2024 - Nov 8, 2024 in Gothenburg, Sweden
- start building the GloBIAS scientific society
- 50 people limitation (funding restriction)
- 12 travel grants awarded to promote oversea attendance
- outcome of the workshop will be communicated via social media, webpage and publications group

There will be a workshop in 2025 – we are working on the format.

Work group: Society foundation

- find a country – cannot be the US
- decision: Austria (ease of setting up as a foreigner)
- enlisted help of a local lawyer
- draft of statutes for registration
- draft of Bylaws and Business plan – work in progress

Progress & Achievements so far— part 2

Work group: Communication

- logo (thanks to Felipe Delestro Matos)
- setting up social media and webpage
www.globias.org
[x.com/GloBIAS_](https://www.facebook.com/GloBIAS_)
www.linkedin.com/company/globias -org/
- outreach – poster (ELMI/ EMC/ BINA congress) & talks.....
- promotional material
- common templates
- GitHub repository for groups
- bi-monthly newsletter: sign up via webpage!



Work group: Publication

- publish a textbook based on the workshops organised by GloBIAS
- promote the publication of academic manuscripts related to bioimage analysis: research papers, survey reports, commentaries, and essays.
- other output channels may include journals, web articles, blog posts.



Progress & Achievements so far— part 3

Work group: Survey 24

7 February to 29 April 2024

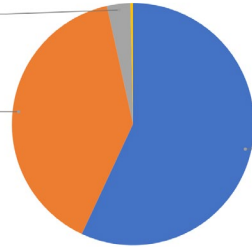
number of response 291

What is your gender?

Prefer not to say
3.1%

Female
39.6%

Male
56.9%



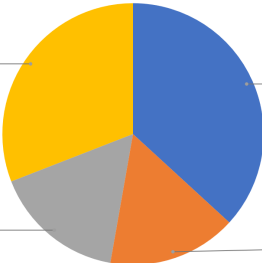
What is your age group?

40-49
30.9%

30-39
36.8%

above 50
16.3%

20-29
16.0%



What is your location?

Near/ Middle East
2.8%

Australia/ Oceania
4.2%

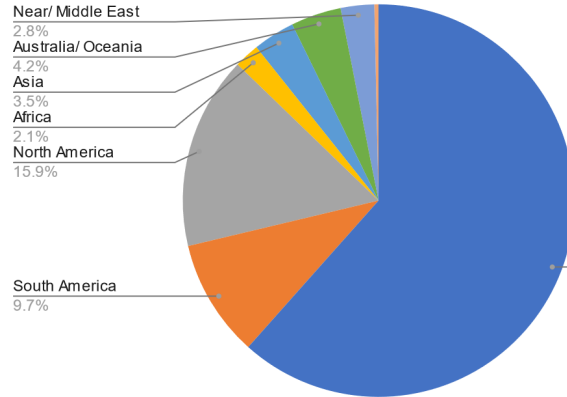
Asia
3.5%

Africa
2.1%

North America
15.9%

South America
9.7%

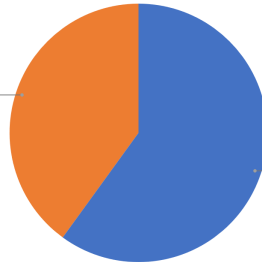
Europe
61.6%



Are you currently in a permanent position?

No
40.0%

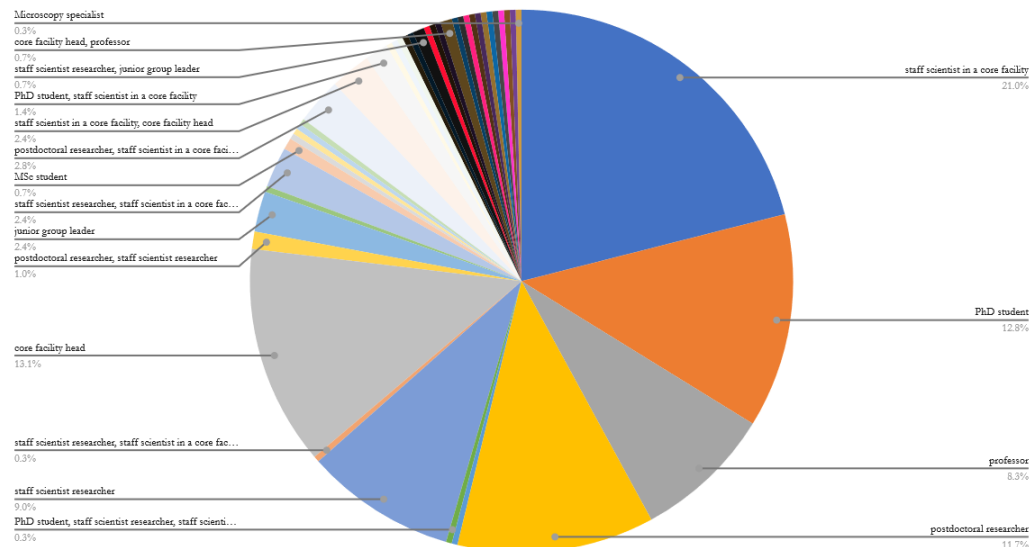
Yes
60.0%



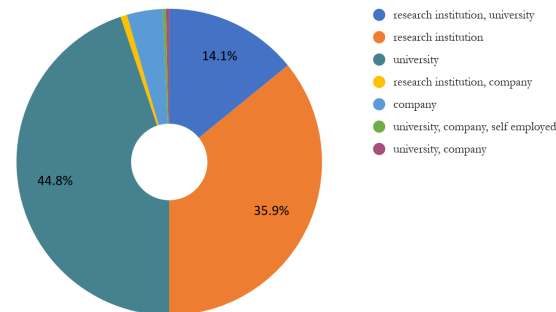
Progress & Achievements so far— part 3

Work group: Survey 24 ctd

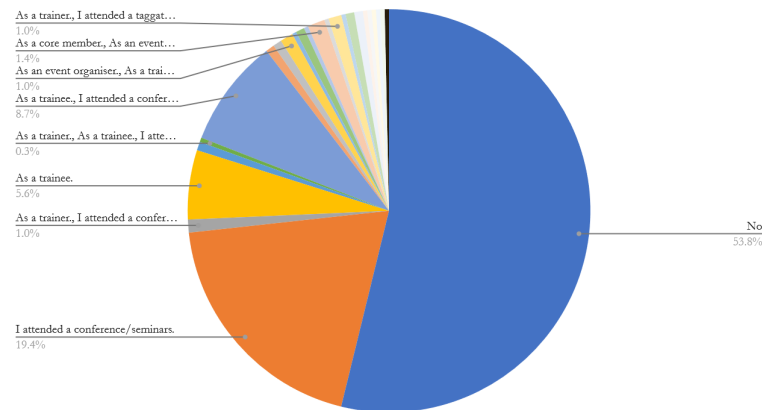
Describe your position



In which of these sectors do you work?



Have you been involved with NEUBIAS before?



Progress & Achievements so far— part 4

Work group: Training & Education

- largest group with 37 members
- divided in subgroups
 - workshop session,
 - data base: trainer & BIA in general,
 - seminar series,
 - overview on training material,
 - call for help sessions....
- keeps growing as the ideas keep coming...

Progress & Achievements so far— part 4

Work group: Training & Education ctd

- In person workshop session

Discuss how GloBIAS can enhance bioimage analysis and future possibilities looking at the following points:

- Empower analysts to deliver more effective training sessions? We will collectively identify strategies, resources, and tools that can elevate the quality and impact of bioimage analysis training efforts.
- Help deliver training to the institutes, for example by providing a comprehensive curriculum for a wide range of audiences with different educational levels.
- Help identify which online training resources would be most useful for the community
- Engage the community by bringing together training enthusiasts who can contribute to the initiatives discussed during this workshop.

Progress & Achievements so far— part 4

Work group: Training & Education ctd

- GloBIAS maintains databases (links below) of people who wish to be publicly listed as bioimage analysts or as bioimage analysis trainer in our global registry.
- Registration form via link on the webpages: <https://www.globias.org/resources/database-registry-form>. Self-registration process (human checks to avoid spam)
- Note: GloBIAS has no official certification process for inclusion and makes no guarantees of the completeness or accuracy of any information in the tables.
- All fields are filterable and searchable.

Baserow GloBIAS Analyst Database Filter 11 Sortieren Gruppieren Felder ausblenden Q				
	Organization Name	URL	Country	Available externally for a... Analysis expertise
10	Richard De Mets, Universit...		Denmark	Yes, to all academics ImageJ/Fiji QuPath Napari Matlab Python
11	Martin Schältz, VMCF, Char...	www.schaeltz.cz	Czech Republic	Yes, to anyone Bioimage Analysis, Fiji, ImageJ, napari, CLUZ, Ilastik, Cellp...
12	Ignacio Arganda-Carreras, ...	https://www.ikerba.es	Spain	Yes, to anyone Fiji, BiaPy, ImageJ, ANTs, Elastix.
13	Alexandre Hego, OIGA Cell ...	https://www.giga.ulb.ac.be	Belgium	Yes, to anyone Bioimage Analysis, Fiji, ImageJ macro, QuPath, Cellpose, S...
14	E. Bouilh	https://www.linkedin.com/in/ericbouilh	France	Yes, to a limited group of ... Signal enhancement, denoising, image processing, Python...
15	Nicolas Goudin, Necker Blo...	https://fr.sfr-necker.fr	France	Yes, to anyone Bioimage Analysis, Fiji, Macro, QuPath, Cellpose, Stardist...
16	Montpellier Ressources Ima...	https://www.mri.cnrs.fr	France	Yes, to anyone Bioimage analysis 3D Bioimage Analysis Development of bl...
17	Aitor González-Marfil	https://sites.google.com/view/aitor-gonzalez-marfil	Spain	Yes, to anyone BiaPy
18	Agustin Corbat	acorbat.github.io	Sweden	Yes, to a limited group of ... Bioimage Analysis, Microscopy, Advanced Microscopy, Pyt...
19	Yannick Krempf, CIF (Cellu...	https://www.linkedin.com/in/yannickkrempf	Switzerland	Yes, to all academics Fiji, Imaris, QuPath, CellProfiler, Huygens, Python to some ...
20	Marie Held (Centre for Cell ...	https://cccl.liv.ac.uk	United Kingdom	Yes, to anyone image analysis pipeline development, Fiji, customized IJ m...
32 Zeilen				

- BiolImage Analyst trainers: <https://www.globias.org/resources/bia-trainers-db>
- BiolImage Analysts' list in general: <https://www.globias.org/resources/bioimage-analyst-db>

Progress & Achievements so far— part 4

Work group: Training & Education ctd

- Seminar series – monthly event, last week of the month, one topic three month in a row;
 - provide a dynamic platform for bioimage analysts,
 - enable the community to stay up to date with the latest developments in the field
 - foster community interactions
 - designed to cater to intermediate and advanced analysts
 - focusing on practical, high-level content that extends beyond basic instruction

First round: Large Language Models for Bioimage Analysis: Exploring how emerging AI technologies can be applied to enhance image analysis tasks.

Future topics:

- Infrastructure for deploying image analysis workflows
- Current and future plans for essential BIA tools
- Best practices to build a bioimaging project starting from a user request: what to include, what to ask, how to deliver it?
- Java for Bioimage Analysis: Discussing the role and applications of Java in handling image data, including software and plugin developments.

GloBIAS- outlook

- registered society will welcome members
- disseminate outcome of first in -person workshop
- member assembly (online or hybrid)
- develop numerous ideas in T&E group further
- publication of book, articles in different formats
- workshop 2025

Anything you would want to see included and moved forward? – Join us!

New ideas for workgroups are welcome!

(Specific BIA topics/ tools/ open discussions/ help groups you name it)

Thanks for listening.

Seminar Series

First round: Large Language Models for Bioimage Analysis

Large Language Models – an introduction for life scientists

Tuesday 27th August 2024, 3pm -4pm CEST

Robert Haase, Image Data Scientist, Lecturer, Training Coordinator, ScaDS.AI / University of Leipzig, Germany

BiolImage.IO - introduction and application

Friday 27th September 2024, 2pm - 3pm CEST

Caterina Fuster-Barceló, Postdoctoral Researcher, Universidad Carlos III de Madrid, Spain

Harnessing Large Language Models for Bioimage Analysis with Omega

Friday 18th of October, 5:30pm - 7pm CEST

Dr. Loïc Alain Royer, Senior Group Leader & Director of Imaging AI, Chan Zuckerberg Biohub, USA

2nd round: Infrastructure for deploying image analysis workflows

Save the dates!

Wednesday, 27th Nov 2 -4 PM EST/ 8:00 - 10:00 pm CET,

Wednesday, 22nd January 2025 4pm CET,

Wednesday, 26th February 2025 2pm CET

Registration

