



BioImaging North America (BINA)

Claire Brown
BINA Co-Chair



BACKGROUND



- First conceived in February 2018 at the “*Frontiers in Microscopy Technologies and Strategies for Bioimaging Centers Network*” meeting at Janelia Research Campus.
- Registered as a US non-profit organization in June 2018
- Network of optical imaging scientists across Canada, Mexico and the US dedicated to supporting and strengthening light microscopy-based bioimaging for this community.
- BINA aims to provide support for the NA bioimaging community while partnering and contributing to global efforts.



GOALS & OBJECTIVES



Bring together the North American Biolmaging Community

Canada, Mexico, United States



Establish Community Driven Working Groups



Share our Collective Expertise Within the Community

New technologies, facility management, training

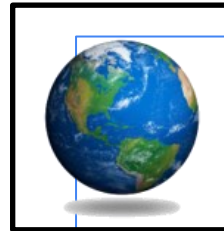


Professional Development and Educational Activities



Standards and Quality Control

Metrology Suitcase Program
Contribute to Global Efforts



Building the BINA Network with Global Partners



WORKING GROUPS



Quality Control & Data Management

Tools and awareness to improve metadata reporting
International community - QUAREP



Training & Education

Collecting training resources - BINA webpage
International global searchable database



Diversity & Inclusion

Education & awareness
Support for under-represented groups



WORKING GROUPS



Corporate Partners

Soon to be launched! Watch for more info!

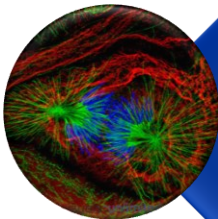


Image Informatics

Soon to be launched! Watch for more info!



Communications

Newsletters, twitter, jobs, events, website,
membership list

Website

www.bioimagingna.org

Follow us on
Twitter

[@BioimagingNA](https://twitter.com/BioimagingNA)



WEBSITE - BIOIMAGINGNA.ORG



About BINA Resources Core Facilities Postings Commercial Sponsors

TRAINING


Resources

Due to the urgent need for virtual training materials as a result of the COVID19 pandemic, we are posting this preliminary collection of links. As we receive and vet more materials, the list will become more complete. If you want to speed things up you are welcome to join the BINA Training and Education Working Group.

Reference	Online Courses	User Training
Commercial	Forum/Listserv	Core Management

[Suggest a link >](#) [Email feedback about the Training & Education Resources Pages](#)  [Search >](#)


- Submit training resources today!



About BINA Resources Core Facilities Postings Commercial Sponsors

CORE

Facilities



BINA Network of Core Facilities
This map was made with Google My Maps. Create your own.

- Comprehensive listing of all Imaging Facilities in NA
- Eventually part of international searchable database



RECENT ACTIVITIES

Join us for a session focused on positively impacting the careers of BIPOC (Black, Indigenous, People of Color) Bioimaging Scientists

BIPOC scientists remain underrepresented in the bioimaging sciences, although we represent a growing segment of the bioimaging community.

We will cover approaches designed to identify institutional barriers to success (systemic racism) and opportunities for industrial leaders to support the careers of BIPOC scientists, both in academia and industry. **Followed by a Q&A and discussion with the presenters**

Advanced Imaging Methods 2021
Special Breakout Session
Thursday, February 11
12:00-1:15 PM PST
Visit the Sessions area online

Session chair: Gisele Giorgi

- Launched **#BlackInMicroscopy** twitter hashtag to increase visibility of under-represented groups
- Provide training/education/mentorship opportunities for under-represented imaging scientists



VIRTUAL HAPPY HOUR

LATTICE LIGHTSHEET BUILD OR BUY?



Challenges and advantages of building or buying a lattice lightsheet microscope and offering training and support in an imaging facility.

[Register Here](#)

SPEAKERS:

Jenny Schafer Cell Imaging Shared Resource (CISR) Vanderbilt University	Michael DeSantis Research Specialist, Light Microscopy Janelia Research Campus
Andrew Barazia Lattice Light Sheet Product Manager Intelligent Imaging Innovations (3i)	Renée Dalrymple Lattice Line Product Marketing Manager ZEISS Research Microscopy Solutions

Wednesday, March 24, 2021
4:00-5:15 pm EDT





UPCOMING ACTIVITIES



Meetings, Workshops & Training Opportunities



Exchange of Experience Visits & Professional Development



Quality, Standards & Metrology Suitcase Program



Global,
searchable
Training &
Education
Database





UPCOMING PUBLICATIONS

QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy

The community-driven initiative Quality Assessment and Reproducibility for Instruments & Images in Light Microscopy (QUAREP-LiMi) wants to improve reproducibility for light microscopy image data through quality control (QC) management of instruments and images. It aims for a common set of QC guidelines for hardware calibration and image acquisition, management and analysis.

Ulrike Boehm, Glyn Nelson, Claire M. Brown, Steve Bagley, Peter Bajcsy, Johanna Bischof, Aurelien Dauphin, Ian M. Dobbie, John E. Eriksson, Orestis Faklaris, Julia Fernandez-Rodriguez, Alexia Ferrand, Laurent Gelman, Ali Gheisari, Hella Hartmann, Christian Kukat, Alex Laude, Mikołaj Mikulski, Sebastian Munch, Alison J. North, Tobias M. Papp, Uta Resch, Carsten Lippert, G. Sebastian

Nature Methods

<https://www.nature.com/articles/s41592-021-01162-y.pdf>



bioRxiv

THE PREPRINT SERVER FOR BIOLOGY

Towards community-driven metadata standards for light microscopy: tiered specifications extending the OME model

Mathias Hammer, Maximiliaan Huisman, Alex Rigano, Ulrike Boehm, James J. Chambers, Nathalie Gaudreault, Alison J. North, Jaime A. Pimentel, Damir Sudar, Peter Bajcsy, Claire M. Brown, Alexander D. Corbett, Orestis Faklaris, Judith Lacoste, Alex Laude.

<https://www.biorxiv.org/content/10.1101/2021.04.25.441198v3>

QUAREP-LiMi: A community-driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy

Journal of Microscopy

<https://onlinelibrary.wiley.com/doi/10.1111/jmi.13041>

A perspective on Microscopy Metadata: data provenance and quality control

Maximiliaan Huisman, Mathias Hammer, Alex Rigano, Ulrike Boehm, James J. Chambers, Nathalie Gaudreault, Alison J. North, Jaime A. Pimentel, Damir Sudar, Peter Bajcsy, Claire M. Brown, Alexander D. Corbett, Orestis Faklaris, Judith Lacoste, Alex Laude, Glyn Nelson, Roland Nitschke, David Grunwald, Caterina Strambio-De-Castilla

<https://arxiv.org/abs/1910.11370>



BIOIMAGING NORTH AMERICA

Chan Zuckerberg Initiative

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QUESTIONS

