UNC Neuroscience Microscopy Core
5114 Mary Ellen Jones Building, 116 Manning Drive, Campus Box 7250, Chapel Hill, NC 27599
Dr. Michelle S. Itano, Director, itano@unc.edu, Twitter: @MichelleItano

- Confocal Microscopy
  - Fixed and live cell
  - Leica SP8X, Olympus FV3000RS, Zeiss 780, Zeiss 710,
  - Zeiss 980 with AiryScan2 (installed in Jan!)

- Automated Widefield Imaging
  - Color, fluorescence, live cell and whole animal
  - High-Content Analysis Module
  - Nikon Eclipse Ti2, Olympus MVX10 Macroscope

- Light-Sheet Microscopy
  - ASI dSPIM installing today!

- High-powered Analysis Workstations
  - Windows and Linux

Supported in part by a Recharge agreement, the Neuroscience Center Grant (P30 NS045892), the UNC Intellectual and Developmental Disabilities Research Center Grant (P50 HD103573).
In past 5 years:

- Core grew from a one-person core to support three staff members
  - 5 hires
- Installed 6 new imaging systems
  - Awarded 2 S10 grants
- Relocated/moved 12 systems into new spaces
- Started new graduate imaging course

11,530+ usage hours
202 core users
180 user trainings

72 labs supported
15 publications acknowledging core support

Zeiss LSM 980 confocal
ASI et-dSPIM light sheet
Leica 20X air objective
Nikon T12 flura imaging
OMERO Plus

5 equipment updates

funded, pending install in 2023
Mindfulness can support all the **multi-faceted roles** that core directors and staff fulfill.
Clear Communication of Roles

• Adapted roles in the core to the personalities, priorities and values of each staff member
• Weekly group meetings to set priorities
• Weekly individual meetings to focus on specific tasks, roles and projects
• Shared outlook calendars, Asana tasks, and Google Drive documents for automated tracking
• Monthly joint ‘lab meetings’ with other cores and monthly social ‘Sushi Fridays’
COMMUNITY:

“The coming together of a group of individuals who have learned how to communicate honestly with each other, whose relationships go deeper than the masks of composure, and who have developed some significant commitment to rejoice together, mourn together, and to delight in the [support] of each other, and make each others’ conditions their own.”

-M. Peck Scott
Building Community

• Clearer and more regular communication
  • Building listservs, newsletters
  • Required consultation prior to training of new users
  • Sharing and recognition of roadblocks or difficulties identified by members of staff during group meetings

• Defining priorities and communicating goals to users
ANNUAL REPORT 2022

Prepared by Christina Moore and the BINA Communications Working Group

MWACD 2019 - October 16-18
University of Minnesota, Minneapolis

Click here to see our full program and register!

Meeting Highlights

- Keynote address from Dr. Michelle Itano - recipient of a 2019 Chan-Zuckerberg initiative presenting ENHANCING REPRODUCIBILITY

Chan Zuckerberg Initiative Imaging Scientist
Assistant Professor, Univ. of Massachusetts Medical School

David Grunwald, Ph.D.
Associate Professor, Univ. of Massachusetts Medical School

Monday, June 24, 2019
6004 Marsico Hall
Seminar: 3:00 – 4:00 PM
Discussion: 4:00 – 5:00 PM

INAGURAL JOB SHADOWING PROJECT

MENTOR:
CLARE M. BROWN
Assistant Professor
Director, Advanced Biomedical Imaging Facility (ABIF)
McGill University

Gain access to these microscopes platforms that serve the scientific community. The mentor provides hands-on guided tours of equipment and workshops and course. Create a quantitative imaging research program that studies the molecular mechanisms that regulate normal and pathological cardiovascular function. She is actively involved in the ABIF mentorship program.

MENTEE:
MICHELLE S. ITANO
Assistant Professor
Director, Neurosciences
Montefiore Center
Univ. of North Carolina

Michelle Itano will travel to McGill the week of May 4-10, 2019
1. Shadow ABIF imaging scientists, management, training, hiring, quality control
2. Shadow Neuro Quantitative Super Resolution Microscopy Course: course development, course implementation, network with leaders in the field
3. Shadow Microscopic Imaging Facility of the Neuro advanced microscopy platforms, open science initiatives, image analysis, links with CBH

Launched with cooperation from these national/international networks:

Bioimaging North America

TARGETING EQUITY IN ACCESS TO MENTORING • UNC

Working to promote effective, intersectionality-informed mentoring for faculty with an emphasis on women and underrepresented groups in STEM fields.
Participation in Courses

**UNC:**
- CBPH/NBIO710 Advanced Light Microscopy: Spring 2020-ongoing
- NBIO722: 2 lectures on microscopy
- BBSP FYG Leader: 2021-2022, ongoing
- Microscopy Café: Organized by Wendy Salmon

**MBL @ Woods Hole:**
- Embryology Course, Microscopy Faculty: 2021-ongoing
- Light Sheet Fluorescence Microscopy Faculty: 2021-2022
- Optical Microscopy & Imaging in the Biomedical Sciences (OMIBS) Faculty: 2022-ongoing

**UNC Pembroke:** Optical Microscopy and Imaging Training (5/23-5/25)

**PAIR-Up Workshop:** Planned for April 2023
CZI Grant Partner Training Sessions

The Chan Zuckerberg Initiative is committed to helping you scale change faster. We do this through grants, technology and capacity building. With training, consulting and coaching we support the CZI community to grow key capacities, tools and organizational building blocks to unlock greater impact over the long-term.

To help support the CZI community working tirelessly to achieve their goals, become more resilient, and respond to unfolding crises we’ve assembled a collection of expert trainings valuable to the grantees and their partners across CZI portfolio areas. Please sign up for the trainings that you’re interested in below.

In these sessions, expert trainers will provide advice on how to best approach these challenges, teach new skills and practices, and answer questions that you and your community may have. These training sessions will last approximately 90 minutes unless otherwise indicated. If you’d like to provide feedback or request additional trainings for your organization please contact CapacityBuilding@chanzuckerberg.com.
Core Concepts of Race, Equity, Identity, and Actions Your Organization can take: 4 Parts

Hosted by The Justice Collective, Principal Consultant and Expansion, Danielle DeRuiters-Williams, and Senior Consultant

Reprioritization and Scenario Planning with a Focus on COVID-19 Impacts

Hosted by The Management Center Partner, Marissa Graciosa

Whether you’re the head of an organization, the leader of a team, or an individual contributor, our current context of COVID-19 requires you to reprioritize your work. To prioritize well amidst so much uncertainty and with so much at stake, leaders also need to plan for multiple possible realities. In this session, The

The Management Center

Tools

Welcome to our resource library! Below you’ll find numerous tools that we hope will help in your work — samples, worksheets, and other tools and tips. For more information on how to use any of these resources, please check out our book, Managing to Change the World.

If you’d like to get resources like these emailed to you each month, along with other tips on being an effective manager, sign up for our email list! For more information about our privacy policy, click here.

FEATURED RESOURCE

5 Things Managers Can Do to Get Election-Ready

Check out these tips for managers and leaders to get their teams through this election season (even if your work isn’t directly related to electoral work, politics, or organizing).

Financial Health and Reporting During Another Uncertain Year

Hosted by Wolf and Associates Owner Josh Wolf

1) Four Financial Reports to Inform Forecasting and Confidently Make Decisions

Management Techniques For Distributed Teams: Getting Into The Weeds On Effective One-On-One Meetings And Team Dynamics In Remote Work Environments

Following Nicole Sanchez’s excellent Crash Course on Remote Management Training. We heard a high demand for a deeper dive on this topic. Here it is! Join us for a presentation and discussion of best practices in remote management and getting into the weeds on how to execute key management principles in a remote environment. We will cover:
Chan Zuckerberg Initiative: BetterUp One-on-One Coaching

Your company performs when your people do.

The BetterUp platform delivers transformative coaching experiences to drive productivity, engagement, and retention at scale.
An Opportunity to Develop Your Coaching Skills

Leadership Peer Coaching Group members provide mutual support to each other through building a small leadership community that fosters positive change for individuals and their institutions, solving challenging leadership issues, and giving and receiving genuine feedback.

Linda Basch, CFE Leadership Consultant, will lead the 2022-23 Leadership Peer Coaching Groups. Groups meet four times a semester for 2.5 hours each time. During COVID, the meetings are virtual.
Many Thanks to All!

All Users of our Core and Collaborators!

Neuroscience Microscopy Core Staff:
  Tessa-Jonne Ropp
  Christina Moore

Administrative and Advisory Support for the Core:
  Sausyty Hermreck, Tina Newman, Jacob Staimpel,
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