



TB Research Advancement Centers Training Catalog

2024 " OPEN TRACs Train"

What is this document for? The "TRAC OPEN Train" catalog provides a listing of each course, seminar series, and other training modalities offered by each TRAC that are **open to the TB community**. Just as a university or college course catalog is divided into the offerings provided by a given department, the TRAC Train catalog lists the virtual, hybrid, and in-person seminar series, journal clubs, classes/workshops, and other events that are offered by each TRAC.

How is this organized? Each page of this document contains the courses offered by the indicated TRAC. TRACs are listed from West coast → East coast.

Who do I contact to sign up for a given course or seminar? Under each TRAC tab is listed the name of the course, a general description, and a point-of-contact (POC). A general time frame for the course is listed, but as we all know these are subject to change, which is why a POC is provided in case the Outlook, Zoom or Teams invite changes.

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Version 10/30/2024

TB Research Advancement Centers

SEATROC
Seattle Tuberculosis Research Advancement Center

- Chetan Seshadri (U. of Washington)
- Rhea Coler (Seattle's Children)
- David Sherman (U. of Washington)

UCTROC
TUBERCULOSIS RESEARCH ADVANCEMENT CENTER

- Payam Nahid (UCSF)
- Jeffery Cox (UC Berkeley)

TRAC
Tuberculosis Research Advancement Center

- Larry Schlesinger (Texas Biomed)

TRAC
Tuberculosis Research Advancement Center

- Dan Fitzgerald (Weill Cornell)
- Kyu Rhee (Weill Cornell)

TRAC
Tuberculosis Research Advancement Center JHU

- Petros Karakousis (JHU)
- Richard Chaisson (JHU)

TRAC
Tuberculosis Research Advancement Center Emory/Georgia

- Neel Gandhi (Emory)
- Jyothi Rengarajan (Emory)

NIH National Institute of Allergy and Infectious Diseases

TRAC Tuberculosis Research Advancement Centers

Seattle TB Research Advancement Center (SEATRAC)

University of Washington, WA | [Home](#) | [SEATRAC \(uw.edu\)](#)



MEMBERSHIP: Join [HERE](#).

ADVANCED TB RESEARCH TRAINING COURSE (free of charge)

Description: A weeklong course devoted to training on the following TB-related subjects: Immunology & vaccines; Pathogenesis & treatment; Biomarkers, diagnostics, case findings; aerobiology, transmission, prevention; Disease modeling, implementation science; Advocacy.

WEB: [Advanced TB Research Training Course \(washington.edu\)](#)

When: Yearly, last one held on September 9th – 13th, 2024

Platform: Virtual

Contact: seatrac@uw.edu

2024 ADVANCED TB RESEARCH TRAINING COURSE

Sept 9-13, 2024 | 7:30 – 11:00am PDT
Virtual Format | Registration required:
<https://bit.ly/3VbBJZ>

Topics covered:

- Immunology & vaccines
- Pathogenesis & treatment
- Biomarkers, diagnostics, case findings
- Aerobiology, transmission, prevention
- Disease modeling, implementation science, advocacy

Contact SEATRAC at seatractr@uw.edu for general inquiries about the course.

SEATRAC TRTC TUBERCULOSIS RESEARCH & TRAINING CENTER
THE UNIVERSITY OF WASHINGTON

TB HACK DAY (Inter TRAC)

Description: A one day, inter-TRAC event that is geared toward training on integrative analysis and inviting creative collaboration to dissect a set of published single cell and bulk RNAseq datasets.

WEB: [i4TB Working Group](#)

When: Yearly, next Dec 10, 2024

Platform: Hybrid;

<https://app.smartsheet.com/b/form/bfd700db76674872b10949905a5b276e>

Contact: seatrac@uw.edu

SEATRAC
Seattle Tuberculosis Research Advancement Center

TB Hack Day

December 10th 2024, 9am to 3pm

Hybrid: Fred Hutch Steam Plant, O'Mack Suite and zoom

Goal: Collaborating in small groups to develop new analytical insights from published bulk and single-cell RNA-seq datasets that profile NHP host gene expression during Mtb infection and BCG vaccination.

Who: Novice and experienced coders welcome!

Program: Short talks to introduce datasets, workshops on analysis techniques, and open-ended hack time to plan and execute analyses.

Food: Breakfast 8:30am, lunch 11:30am, happy hour snacks 3pm.

Registration link: <https://app.smartsheet.com/b/form/bfd700db76674872b10949905a5b276e>

Or scan QR code:

Questions? email: seatrac@uw.edu

SEMINAR SERIES

Description: SEATRAC hosts and promotes seminars focused on TB basic and clinical sciences by local trainees', local and visiting faculty, and special guests.

WEB: <https://seatrac.uw.edu/training/seminarseries>

When: Fridays @ 12PM PST -

Platform: Hybrid (registration required at website above)

Contact: seatrac@uw.edu

8th ANNUAL UW TB SYMPOSIUM

Description: SEATRAC holds a 1-day annual symposium with an external keynote speaker and presentations by trainees and faculty.

WEB: [Annual Symposium | SEATRAC \(uw.edu\)](#)

When: Spring, last May 8, 2024

Platform: Hybrid (registration required at website above)

Contact: seatrac@uw.edu

FACULTY TALKS (AD HOC)

Archived here: <https://seatrac.uw.edu/training/seminarseries/faculty>

UC TRAC

UC-San Francisco & UC-Berkley | [UCSF Center for Tuberculosis | UCSF Center for TB](#)



UCSF World TB Day Symposium (Inter TRAC)

Description: Co-hosted by UCSF Center for Tuberculosis (with UC TRAC) and The Curry International Tuberculosis Center (CITC), the *UCSF World TB Day Symposium* is planned by a committee of UC TRAC Early-Stage Investigators with a focus on patient experience, clinical and programmatic practice, advocacy, and TB research and policy. The program also features an inter-TRAC session with ESIs across the TRAC cohort. (Emory and JHU in 2024)

When: Every year in March, next on Monday, March 24, 2025.

Platform: Hybrid

Contact: barbara.alonso@ucsf.edu

SEMINAR SERIES

Description: The UC TRAC-hosted Bay Area TB Science (BATS) monthly TB talks series features established and early-stage investigators in the UC TRAC community, including visiting faculty and special guests, with the intention to build community and foster collaboration.

When: First Friday of the month, 9-10am PST during academic calendar.

Platform: Virtual

Contact: barbara.alonso@ucsf.edu

UC TRAC GLOBAL FELLOWSHIP PROGRAM

Description: The UC TRAC Global Fellowship is a new mentoring and training opportunity for Early-Stage Investigators (ESIs) engaged in Tuberculosis-focused research, who are from and working in LMIC countries with a high burden of TB. This opportunity, granted by the University of California Tuberculosis Research Advancement Center (UC TRAC) with funding from NIH/NIAID will provide tailored mentorship, capacity-building, and stipend funding to elevate the research and career path of participating UC TRAC Fellows.

Link to flyer: [HERE](#)

A flyer for the UC TRAC Global Fellowship Program. The header includes the UC TRAC logo and the University of California Berkeley logo. The title is 'UC TRAC GLOBAL FELLOWSHIP PROGRAM'. The main text describes the program as a new mentoring and training opportunity for Early-Stage Investigators (ESIs) from LMIC countries. It lists program offerings such as individualized research mentoring, discussion series, professional skill development, and stipend funding. It also lists eligibility criteria, including postdoctoral fellows, clinical fellows, professors, and advanced doctoral students. A QR code and a 'HOW TO APPLY' section with a website link are at the bottom.

The UC TRAC Global Fellowship is a new mentoring and training opportunity for Early-Stage Investigators (ESIs) engaged in tuberculosis research, who are from and working in low- and middle-income countries (LMIC) with high burdens of tuberculosis. This opportunity, granted by the University of California Tuberculosis Research Advancement Center (UC TRAC) provides tailored mentorship, capacity-building, and stipend funding to elevate the research and career paths of participating UC TRAC Global Fellows.

PROGRAM OFFERINGS	ELIGIBILITY
<p>UC TRAC's Global Fellowship is a one-year program. Core offerings include:</p> <ul style="list-style-type: none">Individualized research and career mentoring and networking.Discussion series on advances in scientific fields of TB, ensuring equitable partnerships in research, peer-to-peer learning with colleagues, among other global health topics.Professional skill development in grant and manuscript writing.Involvement in exciting TB research affiliated with UCSF or UC Berkeley.Stipend funding of up to \$10,000. <p>Applicants must be planning to or be involved in research affiliated with a current UC San Francisco or UC Berkeley faculty or research project, and demonstrate evidence of commitment to TB research.</p>	<p>Eligible applicants include:</p> <ul style="list-style-type: none">Postdoctoral Fellows or Fellows in training.Clinical Fellows or Assistant Professors.Advanced Doctoral Students who are focusing on TB for their independent dissertation research.Professional Researchers or Research Scientists within 10 years of their terminal degree. <p>ESI from diverse research backgrounds in clinical, basic, behavioral, epidemiological, implementation, or health disparities are welcomed to apply. Applicants must have or be in the process of obtaining a doctoral-level degree (ex. PhD, MBBS, MD), be engaged in TB research, and be from and working in an LMIC country with a high burden of TB.</p>

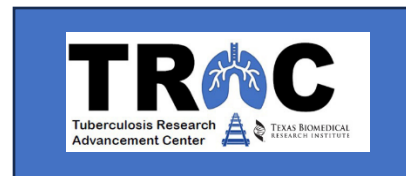
HOW TO APPLY

Visit the QR code or website: <https://www.ucrac.org/developmental-core> for more details on how to apply. Questions about the application can be directed to info@ucrac.org. UC TRAC is supported by NIH/NIAID award P30AI168440.

Archived Webinars & Training Videos

Description: Pre-recorded webinars on the following topics. Additional webinars are available at: [Archived Webinar Trainings | CITC](#). Other trainings can be found by visiting [this link](#).

Interdisciplinary NexGen TB Research Advancement Center (IN-TRAC)



Texas Biomedical Research Institute, San Antonio, TX | [IN-TRAC - Texas Biomed \(txbiomed.org\)](https://www.txbiomed.org)

NEWSLETTER: Click [HERE](#) to sign up for the Monthly Newsletter.

Contact: Kim Olsen kolsen@txbiomed.org

IN-TRAC JOURNAL CLUB

Description: Presentations of recent biomedical literature by IN-TRAC affiliated faculty, staff and trainees.

When: 1st & 3rd Thursdays at 12 CST

Platform: Virtual (Zoom link sent weekly)

Contact: Ed Gravis, EAGraviss@houstonmethodist.org

IN-TRAC FORUM

Description: An interactive forum for discussion of TB topics

When: 2nd Thursday at 12 CST

Platform: Hybrid (Zoom link sent in the Monthly Newsletter)

Contact: Crystal Bolden-Rush crush@txbiomed.org

IN-TRAC PATIENT CENTERED CONFERENCE

Description: This event is focused on patients who are living with tuberculosis (TB) and how they deal with the stigma that can surround the diagnosis, as well as what their daily routines are like following often-complex medical regimens.

When: Annually in October; next is October 31, 2024, 12 pm CST

Platform: Hybrid (Registration link sent in the Monthly Newsletter <https://intracpatientconference2024.splashthat.com/>)

Contact: Kim Olsen kolsen@txbiomed.org



TRAINING COURSES (free of charge)

ADVANCED BIOCONTAINMENT, PART I

Description: Participants are introduced to the basic technical criteria of a BSL3 facility & architectural system and corresponding facility components. Different projects are used to demonstrate combinations of solutions that achieve their respective goals.

When: TBD/As scheduled

Platform: Hybrid (Zoom link sent in the Monthly Newsletter)

Contact: Anthony Wang awang@txbiomed.org

ADVANCED BIOCONTAINMENT, PART II

Description: In this course, participants: Identify keys: pathogenic characteristics of Mtb, personnel characteristics suitable for high containment operations, etc.; Identify procedures that increase the operational risk of manipulating Mtb.; Identify the commonly overlooked areas of high containment operations.

When: TBD/As scheduled

Platform: Hybrid (Zoom link sent in the Monthly Newsletter)

Contact: Anthony Wang awang@txbiomed.org

INACTIVATION PROTOCOL DEVELOPMENT

Description: Participants learn how to choose an effective inactivation method which also fulfills specific research needs, factors to consider when designing an inactivation validation procedure, and how to perform risk assessment and the need for subsequent process verification

When: TBD/As scheduled

Platform: Hybrid (Zoom link sent in the Monthly Newsletter)

Contact: Anthony Wang awang@txbiomed.org

LAB MANAGEMENT

Description: ESIs that want to learn the basics of managing a laboratory. This is a 6-part series. Participants are advised to attend all 6 modules.

When: TBD/As Scheduled

Platform: Hybrid; Initial sign-up is in the Monthly Newsletter. Subsequent scheduling via email.

Contact: Crystal Bolden-Rush crush@txbiomed.org or Kim Olsen kolsen@txbiomed.org

ANIMAL MODEL CORE

Description: to introduce all IN-TRAC participants to the TB field using a variety of animal models that can translate in silico and in vitro findings into potential application to humans.

When: TBD/As Scheduled

Platform: Hands on, customizable survey [HERE](#)

Contact: Crystal Bolden-Rush crush@txbiomed.org or Kim Olsen kolsen@txbiomed.org

RESEARCH IMAGING CORE

Description: Provides theoretical and hands-on training from single cell imaging (confocal microscopy, cytometry, live cell imaging, single cell RNAseq) through to whole body imaging in mice (IVIS) and Non-human primates (NHP) (PET/CT) within large, fully outfitted BSL3/ABSL3 facilities

When: TBD/As Scheduled

Platform: Hands on, customizable survey [HERE](#)

Contact: Crystal Bolden-Rush crush@txbiomed.org or Kim Olsen kolsen@txbiomed.org

TRAC
Tuberculosis Research
Advancement Center

IN-TRAC RIC presents
**HANDS-ON
& DIDACTIC
TRAINING
COURSES**

*From beginner to advanced, we
offer something for everyone*

Courses offered include:
Cellular Biology, Immunology,
Molecular Biology, Biostatistics
and Microscopy/Imaging

Class Highlights:

- Theoretical and Hands-on Training
- Customized Training Experience
- Technical and Practical Training Techniques

Courses will be customized to the individuals as needed. They are designed enhance your knowledge of Research Imaging in TB.

CLICK THE FLYER TO FILL OUT THE CORE PRE-EVALUATION INCLUDING THE COURSE MENU

TRAC
Tuberculosis Research
Advancement Center

IN-TRAC AMC presents
**HANDS-ON
& DIDACTIC
TRAINING
COURSES**

*From beginner to advanced, we
offer something for everyone*

Courses offered include:
IACUC/Regulator Compliance
classes, Mouse/Rodent
classes and NHP Classes

Class Highlights:

- Lectures and Presentations
- Hands-on Demonstration
- Observation Demonstration
- Beginner and Advanced courses

These courses will be personalized to the individuals as needed. They are designed enhance your knowledge of Animal Models in TB.

CLICK THE FLYER TO REVIEW THE WHOLE COURSE MENU

Emory-Georgia TRAC

Emory / University of Georgia / Georgia Tech / Morehouse / Georgia State | [Home](#) | [Emory University](#) | [Atlanta GA](#)



MONTHLY NEWSLETTER: CLICK [HERE](#).

MONTHLY TB WORK IN PROGRESS SERIES

Description: To present about current TB research and public health initiatives.

When: 3rd Friday of the month at 9 am EST 2024. Please see email below to sign up to receive notifications.

Platform: Hybrid. Registration for the hybrid session through the website below.

Contact: TRAC@emory.edu

WEB: [Emory-Georgia TRAC News and Events](#)

PUBLIC DATABASES FOR TB RESEARCH LECTURE SERIES

Description: The series provides lectures and hands-on workshops on publicly available databases for TB research.

When: 7-9 lectures/workshops. Please see email below to sign up to receive notifications.

Platform: Hybrid. Registration for the hybrid session through the website below.

Contact: TRAC@emory.edu

WEB: [Emory-Georgia TRAC News and Events](#)

VISITING PROFESSOR SEMINARS

Description: Invited international and U.S.-based investigators present their ongoing research or perspective on critical issues in TB care.

When: 6 per year. Please see email below to sign up to receive notifications.

Platform: Hybrid. Registration for the hybrid session through the website below.

Contact: TRAC@emory.edu

WEB: [Emory-Georgia TRAC News and Events](#)

INFLUENTIAL MENTORING LECTURE SERIES

Description: This series cover the foundations of mentoring, aligning expectations between mentors and mentees, communication and feedback, mentoring in diverse contexts, and building mentoring capacity at institutions. An inter-TRAC mentorship workshop is planned.

When: 6, 1-hour sessions over 5 months. July – November 2024. Please see email below to sign up to receive notifications.

Platform: Hybrid

Contact: TRAC@emory.edu

WEB: [Emory-Georgia TRAC News and Events](#)

See recording of the series on the [Emory/GA TRAC YouTube Channel](#)

The TRAC Influential Mentors series comprises five virtual sessions that focus on recent scholarship on mentorship, tools for mentors and mentees to strengthen relationships, mentoring across cultures, and building mentoring programs. One session features a panel discussion where experienced mentors and mentees will share best practices and lessons learned. This series is tailored for TB research mentors and mentees from various backgrounds and roles. Participants who attend four out of five sessions will receive a certificate, however registered participants can attend select sessions. The sessions are led by Dr. Susan Comans, Director of Mentor Training at Emory's TRAC and Professor at Rollins School of Public Health.

Month	Date	Topic
July	25	Foundations of Mentoring
August	15	Setting Expectations between Mentors and Mentees
September	26	Cross-cultural Mentoring
October	24	Mentoring Best Practices: A Panel Discussion with Experienced Mentors and Mentees
November	21	Building Mentoring Capacity at Institutions

REGISTRATION REQUIRED

REGISTER NOW

TRAC

INTERNATIONAL INFECTIOUS DISEASES R01 GRANT WRITING WORKSHOP

Description: A 2-hour workshop to review the NIH R01 International Research in Infectious Diseases Funding Opportunity. The focus will be on understanding the funding opportunity and planning your grant proposal and research strategy. The target audience is early-stage investigators

from low-income economy, lower-middle-income economy, or upper-middle-income economy countries.

When: Yearly, last one occurred 8-10am EST February 28th, 2024. Please see email below to sign up to receive notifications.

Platform: Hybrid

Contact: TRAC@emory.edu

WEB: [Emory-Georgia TRAC News and Events](#)

SMALL GROUP '-OMICS' TRAINING SESSIONS (Inter TRAC)

Description: This didactic series kicked off with “Hack Day”, which was carried out in collaboration with the University of Washington’s Seattle TB Research Advancement Center ([SEATRAC](#)) [Data Science Core](#). The Hack Day program focuses on analyzing bulk and single cell transcriptomics data and provided hands-on training on computational pipelines using publicly available datasets.

Subsequent small group session will include extended instruction on processing and analyzing transcriptomics data. Additionally, we will begin a series focused on understanding and analyzing metabolomics data. These sessions will provide an overview of the technical aspects and formats of metabolomics data, as well as tutorials on using publicly available computational pipelines such as metaboanalyst.

When: Ad hoc (May, Aug, Sept 2024). Next Hack Day in collaboration with SEATRAC is December 10, 2024.

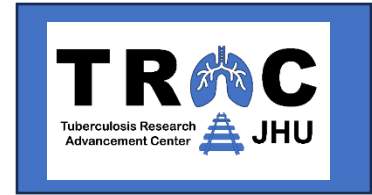
Platform: Hybrid

Contact: TRAC@emory.edu

WEB: [Emory-Georgia TRAC News and Events](#)

JHU TRAC

Johns Hopkins University, Baltimore, MD | [TRAC - Johns Hopkins University Center for Tuberculosis Research \(jhu.edu\)](https://trac.jhu.edu)



UPCOMING EVENTS: CLICK [HERE](#).

SEMINAR SERIES

Description: JHU TRAC hosts and promotes seminars focused on TB basic and clinical sciences by local trainees', local and visiting faculty, and special guests.

WEB: [Upcoming Events - Johns Hopkins University Center for Tuberculosis Research \(jhu.edu\)](https://trac.jhu.edu/upcoming-events)

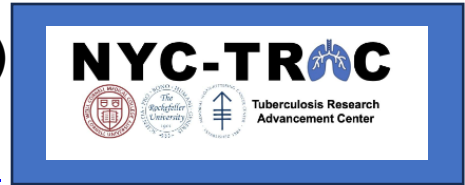
When: Thursdays @ 12pm EST

Platform: Hybrid

Contact: kate.b@jhu.edu

NYC Tri-institutional TRAC (NYC TRAC)

Weill Cornell Medicine, Memorial Sloan Kettering, and Rockefeller University, New York, NY | [Home](#) | [NYC Tri-Institutional TB Research Advancement Center \(NYC TRAC\) \(cornell.edu\)](#)



WEB: [Events](#) | [NYC Tri-Institutional TB Research Advancement Center \(NYC TRAC\) \(cornell.edu\)](#)

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