Seattle Tuberculosis Research Advancement Center (SEA-TRAC)

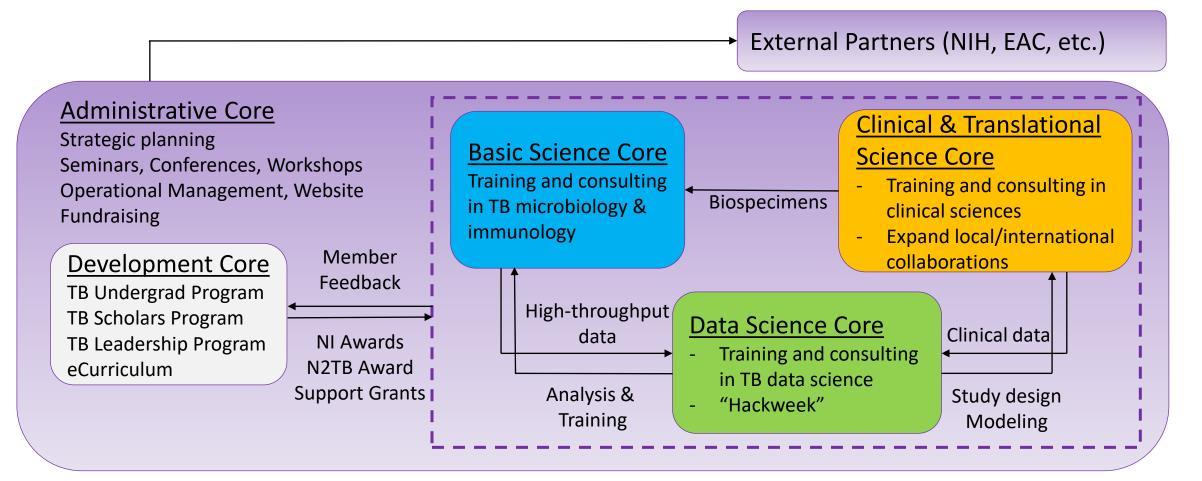
Paul K. Drain, MD, MPH University of Washington

pkdrain@uw.edu

DEPARTMENT OF GLOBAL HEALTH



SEA-TRAC – Structure



Clinical & Translational Sciences Core (CTSC)

Co-Directors:



Paul Drain, MD, MPH Depts of Global Health, Medicine (ID), and Epidemiology



David Horne, MD Dept of Medicine (Pulm/Crit Care)

Recently became Assistant Dean of DEI in SoM



Rhea Coler, PhD Seattle Children's Research Institute

CTSC: Gaps, Central Objective, and Primary Goals

Existing Gaps

- Development support for individual trainees
- Research grants for pilot research projects
- Support for TB-specific education and training

Central Objective

• To provide expertise for a broad array of clinical research topics, provide shared research support for resources, services and training, and to strengthen TB clinical research through domestic and international collaborations.

Primary Goals

- To educate and train new investigators, including people working in TB-endemic countries
- To <u>leverage existing biorepositories to catalyze TB research</u> and generate preliminary data using the UW research network in Latin America, sub-Saharan Africa, and Asia.



Advanced TB Research Training Course

- Annual 1-week course in September
- Over 300 participants worldwide in 2023
 - Clinicians, Researchers, Students, Public Health, Disease Modelers, Faculty, Policy Experts, Business leaders, Advocates, etc.
- Covered diverse TB themes, and from basic to clinical to modeling research topics
 - Mon: Immunology and Vaccines
 - Tues: Pathogenesis and Treatment
 - Wed: Biomarkers, Diagnostics, & Case Finding
 - o Thurs: Aerobiology, Transmission & Prevention
 - Fri: Disease Modeling, Implementation Science, and Advocacy

ADVANCED TB RESEARCH TRAINING COURSE

Sept 18-22, 2023 | 7:30 – 11:00am PDT Virtual Format | Registration required: <u>https://bit.ly/3MxKRDj</u>





TUBERCULOSIS RESEARCH

UNIVERSITY of WASHINGTON

Topics covered:

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

Contact SEATRAC at <u>seatrac@uw.edu</u> for general inquiries about the course.



CTSC: Access to Biospecimens

Foster and catalyze collaborations with investigators with established cohorts, robust clinical databases, and biospecimens for advancing basic, translation, and clinical TB research

- The CTSC will support a database of investigators ("authorizing investigators") with <u>biospecimens</u> relevant to TB research who are willing to collaborate with SEA-TRAC investigators, <u>including access</u> to a well-characterized biorepository of individuals with TB, their close contacts, and healthy controls.
- The database will include specimen type, collection protocols, and the types of clinical and demographic data that is available. Specimens remain with the authorized investigators.

https://seatrac.uw.edu/resources/biorepository



CTSC: Access to Biospecimens

BIOREPOSITORY LIST

The Center for AIDS Research (CFAR) Network of Integrated > Project description: The CNICS consortium is made up of ten specimens from people living with HIV (PLWH). All specimens ar data and are made available to any qualified investigator with a March 25, 1987 to 2019, CNICS has collected and stored 1,043.: PLWH at 139,148 timepoints.

Specimens stored: frozen plasma, viably frozen peripheral ble https://sites.uab.edu/cnics/specimens/

The UW / Fred Hutch Center for AIDS Research (CFAR) Trans Repository

Project description: The HIV Specimen Repository is a collecti mononuclear cells (PBMCs) donated by people living with HIV (F₂) Washington HIV Clinics and is enrolled in University of Washing is ongoing and participants are asked to voluntarily donate up t³⁾ from the patients' electronic medical record is linked to these r(4) the virologic, immunologic, genetic, and demographic determin comorbidities. Overall, from October 29th, 2002 to May 19th, 2(⁵⁾ stored **105,589** aliquots of biological specimens from 1,576 uni(⁶⁾

>Specimens stored: frozen plasma and viably frozen periphera

Specimen Request from Biorepository

Please complete the survey below providing as many details as possible especially in the Rec All shipping costs and shipping materials are paid by the requestor. Requests that might require additional compensation: - more than 100 specimens requested - more than one specimen type requested (e.g. serum + urine) - specimens stored in LN2 - specimens that require international shipping from the Repository - requests with sub-aliquoting from existing vials, re-labeling with scannable barcoded labels 20 Response was added on 06/02/2022 1:19pm.

	21)	they wi
	221	Pulling
O Dr. O Mr.	- 22)	request
Mrs. Ms. Mx. Prof.	23)	Pulling plasma
Paul	[—] 24)	Pulling
Drain	25)	Pulling Please
pkdrain@uw.edu	_	volume you thi
2063063066		Note th initially
UW	26)	Shippin
Global health	_	Organiz Consigi
 Assistant Professor Associate Professor Fellow/Postdoc Instructor Medical Student PhD candidate Professor 		Consign Consign Phone n Street, City, zip
Staff (non-faculty)	27)	Reques
	 Mr. Mrs. Ms. Mx. Prof. Paul Drain pkdrain@uw.edu 2063063066 UW Global health Cliptic field Professor Fellow/Postdoc Instructor Medical Student PhD candidate Professor Resident Staff (non-faculty)	Or. 22) Mr. Mr. Ms. 23) Prof. 24) Drain 25) pkdrain@uw.edu 25) pkdrain@uw.edu 26) Global health 26) Global health 0 Associate Professor 0 Pellow/Postdoc 0 Instructor 0 Medical Student 0 PhD candidate 0 Professor 0 Staff (non-faculty) 27)

○ Yes

🕺 No

9) Have you previously requested specimens from SEATRAC

Repository?

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y in the R	ec	Request scope	
oded labe	-	Please indicate the service(s) that you are requesting: NOTE from ER_I was not sure if choices 1 and 2 might be an option to request from SEATRAC. If not, this question can be removed from the survey.	 Feasibility (to determine whether there are enougl subjects or specimens meeting your study criteria and/or to apply for a grant to fund your study; you will receive aggregate data, does not require Human Subjects approval) Clinical data set (to request data for subjects meeting your study criteria) Specimens Repository (to request specimens and associated clinical data already collected and stored in the repository)
		Please choose a study from which you are requesting specimens. List of studies participating in the SEATRAC will be updated.	⊠ Partners PrEP ☐ Study #2 ☐ Study #3
	21)	If requesting existing specimens, please describe how they will be used (research question)	none
	- 22)	Pulling criteria - number of participants in this request	10
	23)	Pulling criteria - specimen type requested (e.g. plasma, urine, serum etc.)	urine
	- 24)	Pulling criteria - number of specimens requested	20
u	25)	Pulling criteria - volume of aliquots requested. Please specify total volume per participant, minimum volume per one aliquot and any other information that you think might be helpful. Note that specimens will be provided in the volume as initially collected (no sub-aliquoting).	5 ml per sample
fessor fessor oc ent e	26)	Shipping Address for receiving specimens: Organization Consignee - First Last name Consignee - phone number Consignee - email Phone number Street, room City, zip code, State	ICRC lab
ulty)	27)	Request date	June 2

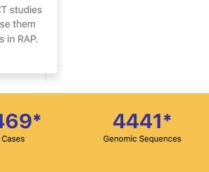


Integration with other TB Biorepositories

Repositories and Clinical Data

- **UC-San Francisco** •
- **UC-Berkeley** •
- **Emory University** •
- Johns Hopkins University •

National Institute of Allergy and Infectious Diseases	8 Portals	
Case Browsing Explore case records, including clinical, imaging, and bacterial genomic information, from the TB Portals in Case Browser.	Multi-Domain Data Analysis Create and statistically compare virtual TB case cohorts across all data domains in DEPOT.	
X Mycobacterium Tuberculosis Genomics Explore cases through GWAS, drug- resistance prediction, and network analysis in GAP.	Radiomics Visualize chest X-rays and CT studies from TB Portals cases and use them to create virtual case cohorts in RAP.	
Data Sharing	11469* TB Cases	4441* Genomic Sequences
Use our data in your research. Visit our Data Sharing site to learn about the available data and how to access it.	16 Countries Represented	40 Sites Contributing Data
	• As of August 2023	





rculosis Research Advance

Questions

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