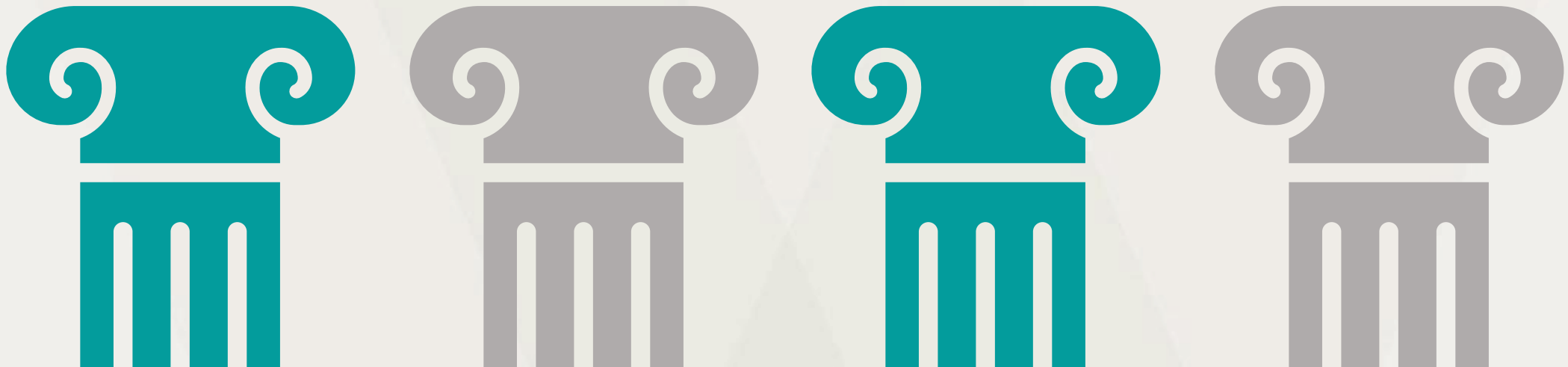


# Vanderbilt Institute for Infection, Immunology and Inflammation (VI4)

An institute that serves as a foundation supporting  
the entire community of researchers in the areas of  
infection, immunology, and inflammation

Founded July 2017





# Mission Statement

To train the next generation of scientists and physicians and make fundamental discoveries in the areas of infection biology, immunology, and inflammation with the goal of increasing knowledge and improving human health.

# Supporting a Strong Community

## **Institutions**

Vanderbilt Medical Center | Vanderbilt University | Meharry Medical College

---

## **Departments and Divisions**

Adult Infectious Diseases | Allergy, Pulmonary, and Critical Care | Anesthesiology | Anthropology | Biochemistry | Biological Sciences | Biomedical Engineering | Cardiovascular Medicine | Cell & Developmental Biology | Chemistry | Clinical Pharmacology | Dermatology | Gastroenterology, Hepatology and Nutrition | Hearing and Speech Sciences | Hematology/Oncology | Molecular Physiology & Biophysics | Ophthalmology and Visual Sciences | Pathology, Microbiology and Immunology | Pediatric Infectious Diseases | Pharmacology | Rheumatology and Immunology | Surgery | Urology

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## **Centers and Institutes**

Center for Immunobiology | Center for Structural Biology | Diabetes Research and Training Center | Digestive Disease Research Center | Genetics Institute | Institute for Global Health | Institute of Chemical Biology | Vanderbilt-Ingram Cancer Center | Vanderbilt Vaccine Center | Vaccine Research Program

# VI4 Leadership and Administration

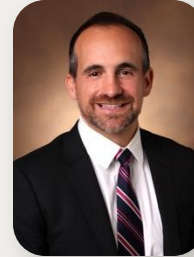


Eric Skaar  
Director

Associate  
Directors



Manny  
Ascano



Jim  
Cassat



Ivelin  
Georgiev



Maria  
Hadjifrangiskou



Mary  
Philip



Henrique  
Serezani



Jamie Block  
Program Manager



Fred Haywood  
Project Manager



Nichole Maloney  
Research Specialist Sr



Megan Schladt  
Lead Program Manager

# VI4 Strategic Planning Committee



C. Buddy Creech II, MD, MPH  
Director, Vanderbilt Vaccine  
Research Program



Tracy Frech, MD, MS  
Director, Division of  
Rheumatology & Immunology



James Crowe, Jr., MD  
Director, Vanderbilt Vaccine  
Center



Mark Denison, MD  
Immediate Past Director,  
Pediatric Infectious Diseases



Kelly Dooley, MD, PhD, MPH  
Director, Division of Infectious  
Diseases



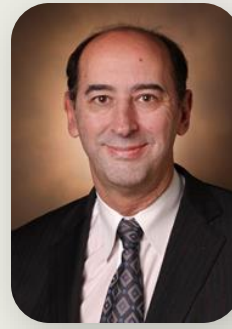
Anthony Flores, MD, MPH, PhD  
Director, Division of Pediatric  
Infectious Diseases



Tina Iverson, PhD  
Associate Dean for Faculty  
Development for Basic Sciences



Borden Lacy, PhD  
Director, Vanderbilt Center for  
Structural Biology



Simon Mallal, MBBS, FRACP, FRCPA  
Director, Vanderbilt Center for  
Translational and Clinical Immunology



Richard Peek, MD  
Director, Division of  
Gastroenterology



Ann Richmond, PhD  
Ingram Professor of Cancer  
Research



John Tanner Wilson, PhD  
Associate Professor,  
Biomedical Engineering,  
Chemical & Biomolecular  
Engineering

# VI4 External Advisory Board



**William Goldman, Ph.D.**

Professor of Microbiology & Immunology  
University of North Carolina at Chapel Hill



**Lora Hooper, Ph.D.**

Professor and Chair, Department of Immunology  
University of Texas Southwestern  
Howard Hughes Medical Institute



**Scott Hultgren, Ph.D.**

Helen L. Stoeber Professor  
Department of Molecular Microbiology  
Director, Center for Women's Infectious Disease Research  
Washington University



**Susan Kaech, Ph.D.**

Professor and Director  
NOMIS Center for Immunobiology and  
Microbial Pathogenesis  
Salk Institute for Biological Sciences



**Richard Locksley, M.D.**

Sandler Distinguished Professor of Medicine  
Director, Sandler Asthma Basic Research Center  
University of California San Francisco  
Howard Hughes Medical Institute

# Enhancing Research, Education, and Clinical Care

## THE GOAL

Establish Vanderbilt as the global leader in research focused on infection, immunology, and inflammation

---

- Targeted faculty hires
- Strategic infrastructure improvements
- Investments in education and training
- Provide resources to facilitate and enhance research
- Support services for multi-investigator grants
- Coordinated marketing campaign

# Faculty Recruitment

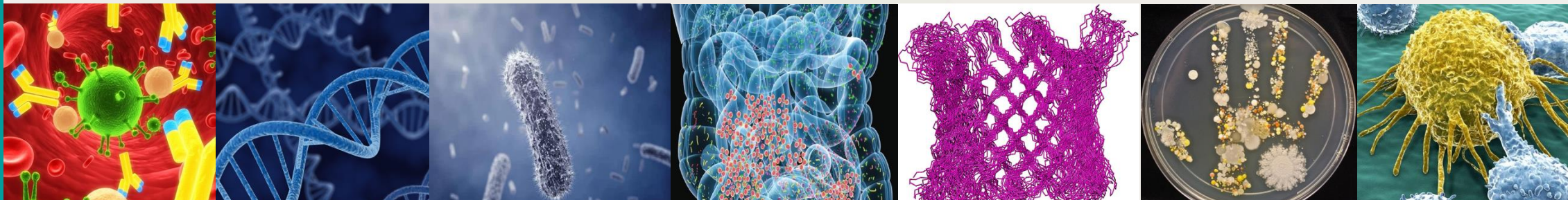
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# Targeted Faculty Hires

Grow where we have need and grow where we have strength

- Microbial Pathogenesis
- Structural Pathogenesis
- Clinical Microbiology
- Cancer Immunology
- Immunobiology
- Personalized Medicine
- Microbiome



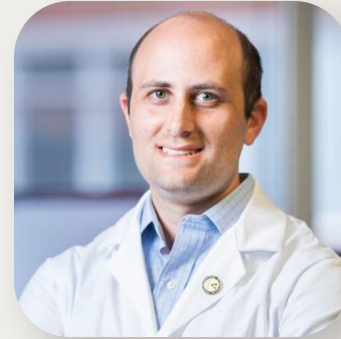
# Faculty Recruitments and New Members

*Since 2017, VI4 has contributed to 25 new faculty hires.*

2024 - 2025



**Paul Blair, MD, MHS**  
Assistant Professor of Medicine,  
Infectious Disease



**Alexander Bick, MD, PhD**  
Associate Professor of Medicine  
Genetic Medicine



**James Connelly, MD**  
Assistant Professor of Pediatrics  
Hematology/Oncology



**Tracy Frech, MD, MSCI**  
Associate Professor of Medicine  
Rheumatology and Immunology



**Stephanie Rolsma, MD, PhD**  
Assistant Professor of Pediatric  
Infectious Diseases

# Faculty Recruitments and New Members

*Since 2017, VI4 has contributed to 25 new faculty hires.*

2024 - 2025



**Robert Coffey, MD**  
Professor of Medicine  
Gastroenterology, Hepatology  
and Nutrition



**Megan Beers Wood, PhD**  
Assistant Professor of  
Hearing and Speech Sciences



**Allison Walker, PhD**  
Assistant Professor of Chemistry



**Jeffrey Freiberg, MD, PhD**  
Assistant Professor of Medicine  
Infectious Diseases

# Improving Research Infrastructure

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# Facilities and Infrastructure Improvements

Create state-of-the-art laboratory space for interdisciplinary research

- 4<sup>th</sup> and 5<sup>th</sup> floors of MCN, dry lab space in 2525, VI4 MICRO BSL3 Facility
- Approximately 60,000 square feet of renovated space is planned or complete
- Interdepartmental VI4 facilities for research and administration
- Phase 1 is complete (~8,700 sq ft)
- Phase 2 is complete (~7,700 sq ft)
- Phase 3 construction is complete (~14,000 sq ft)
- Phase 4 planned and paused



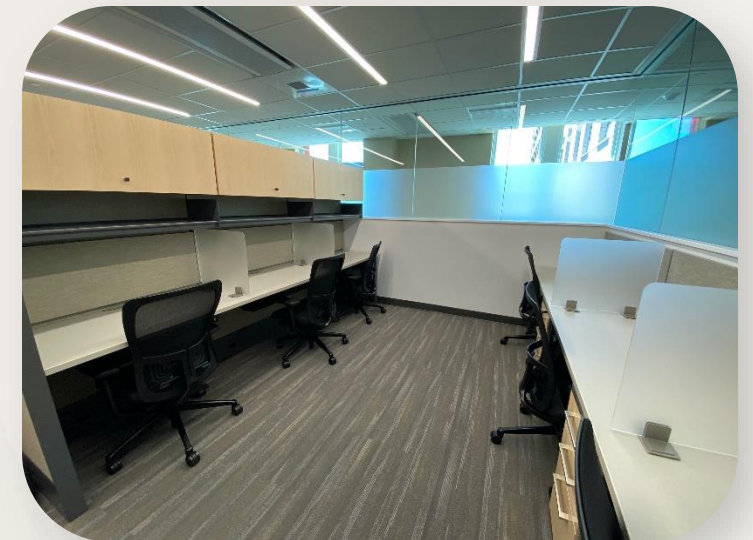
# Facilities and Infrastructure Improvements

A “new building” focused on infection and immunology



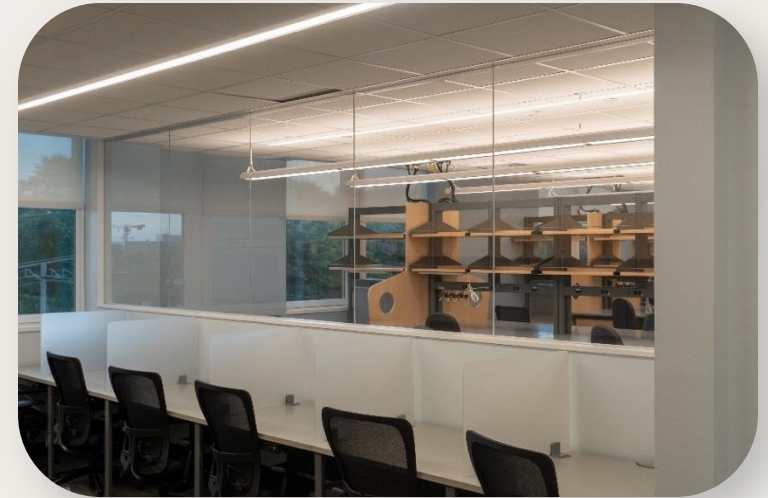
# Facilities and Infrastructure Improvements

**PHASE 1**  
**8,700 sq. ft**



# Facilities and Infrastructure Improvements

**PHASE 2**  
**7,700 sq. ft**





# Facilities and Infrastructure Improvements

**PHASE 3**  
**14,000 sq. ft**



# Facilities and Infrastructure Improvements



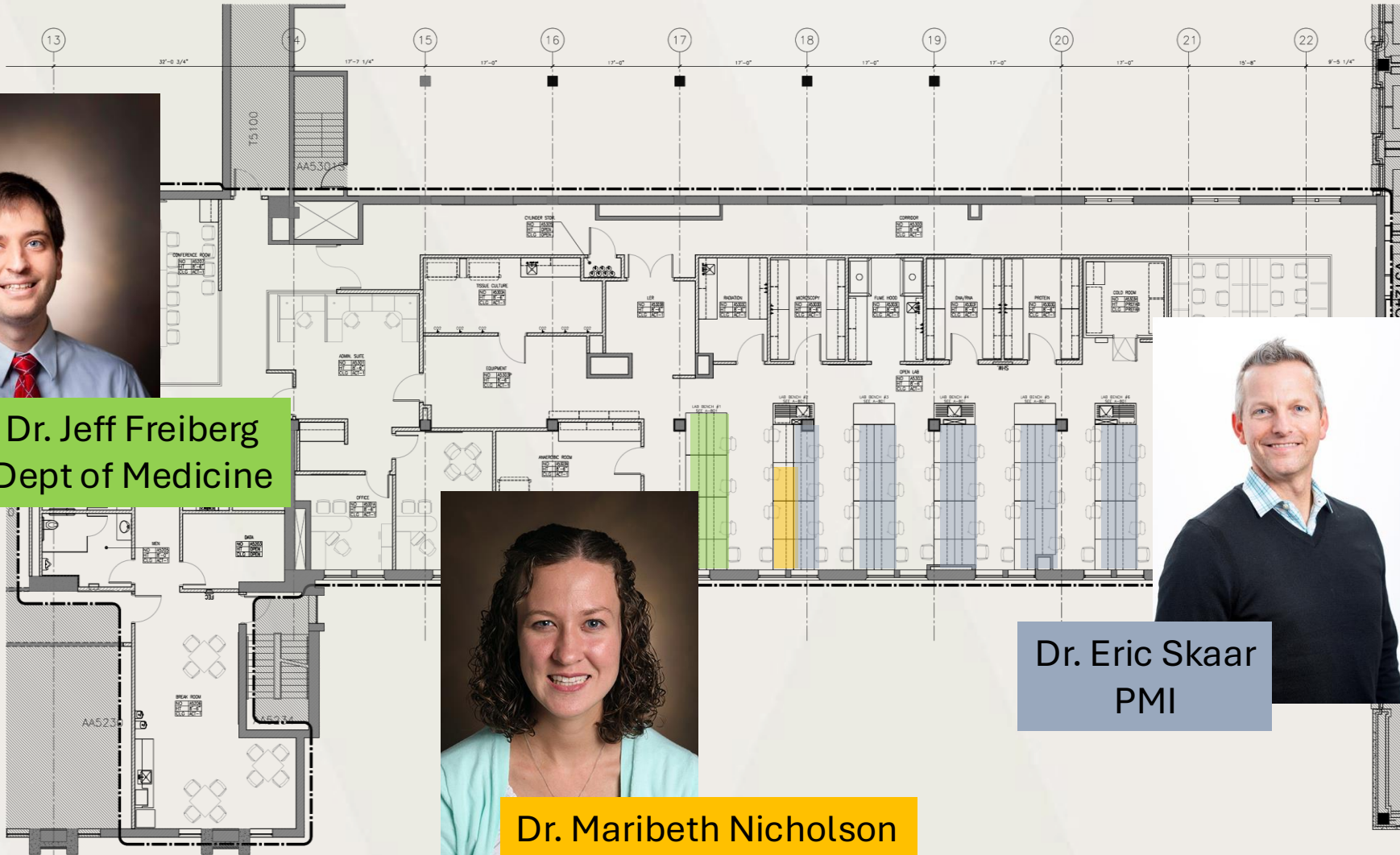
Dr. Jeff Freiberg  
Dept of Medicine



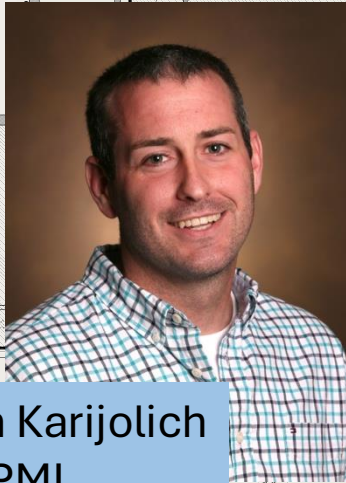
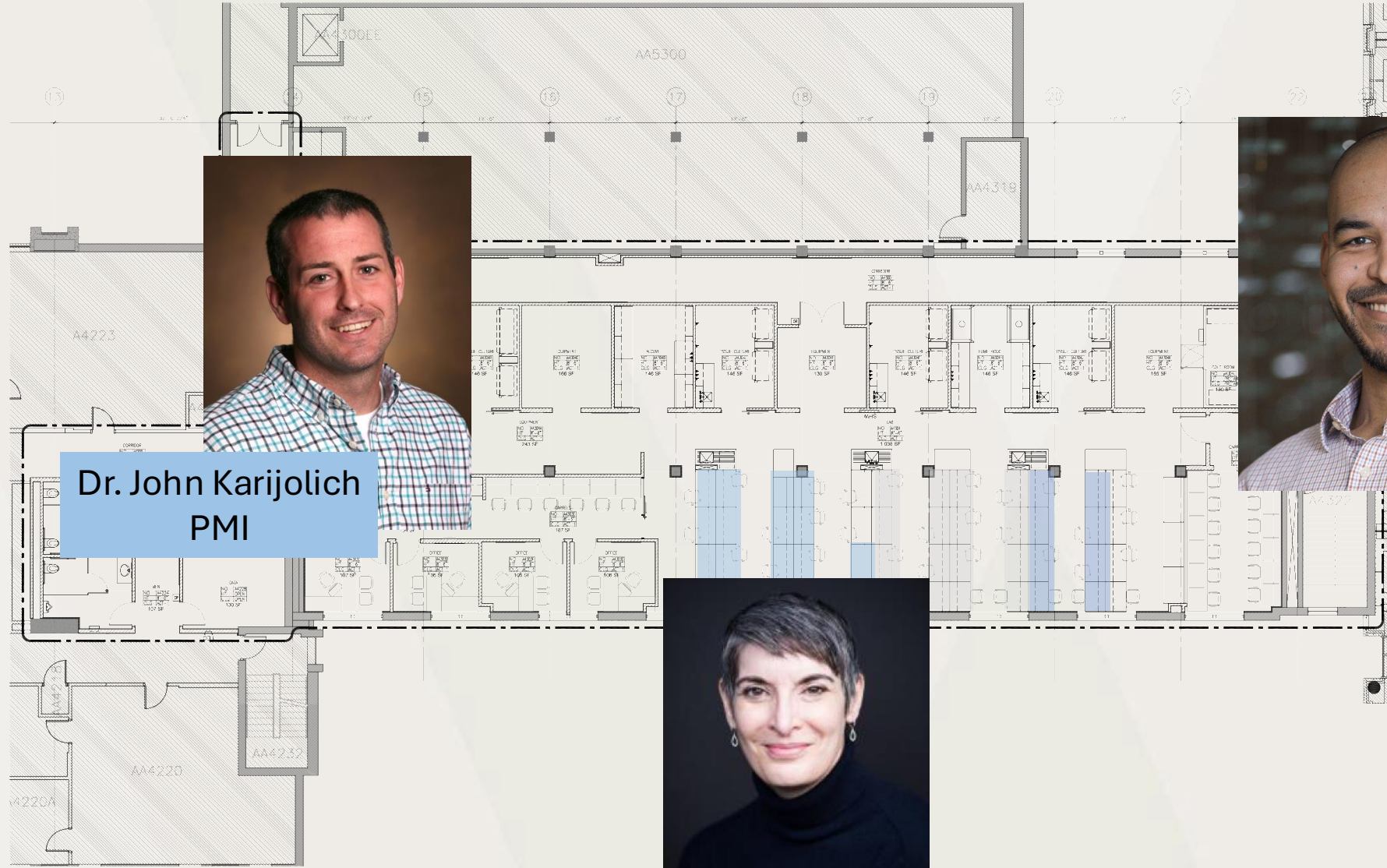
Dr. Maribeth Nicholson  
Dept of Pediatrics



Dr. Eric Skaar  
PMI



# Facilities and Infrastructure Improvements



Dr. John Karijolic  
PMI



Dr. Kiel Telesford  
Ophthalmology



Dr. Nicole Ward  
Dermatology

VANDERBILT UNIVERSITY  
MEDICAL CENTER

V14 - PHASE 2  
VANDERBILT UNIVERSITY MEDICAL CENTER  
MEDICAL CENTER NORTH  
MEMPHIS

BLAIR - MUI BOWD ARCHITECTS  
100 LAUREL ST. SUITE 1000  
NEW YORK, NY 10013  
TEL: 212.841.1800  
FAX: 212.841.8415

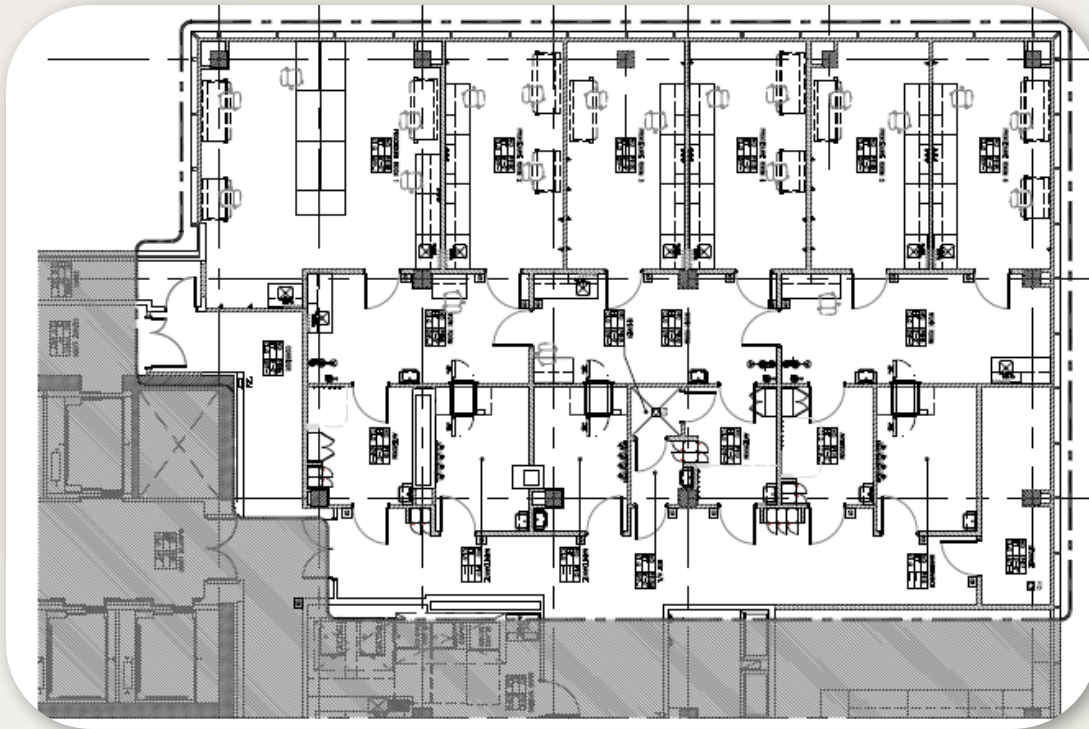
V14 PHASE 2 -  
A4300  
SCALE: 3/16" = 1'-0" DATE: 08/26/2022



# MICRO Facility

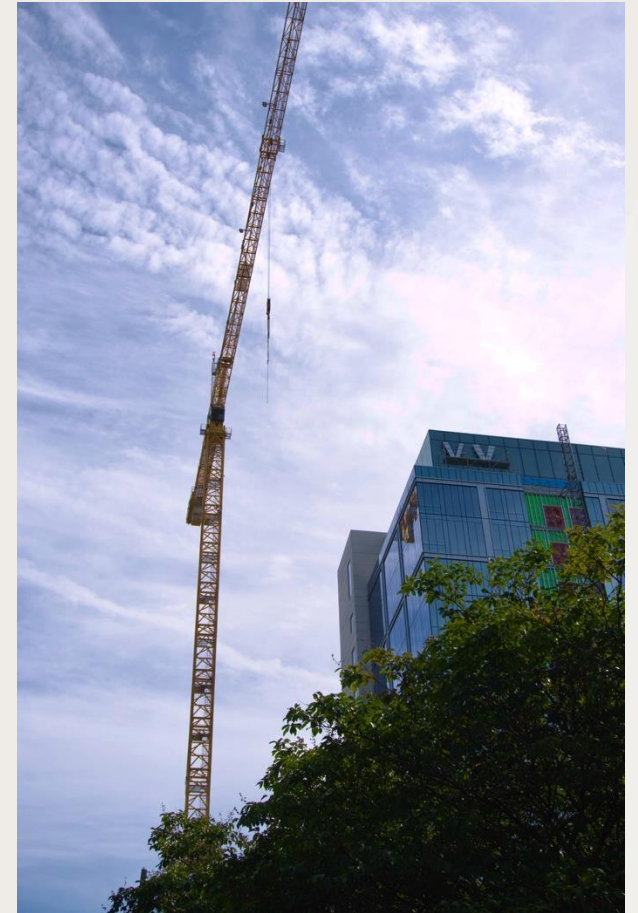
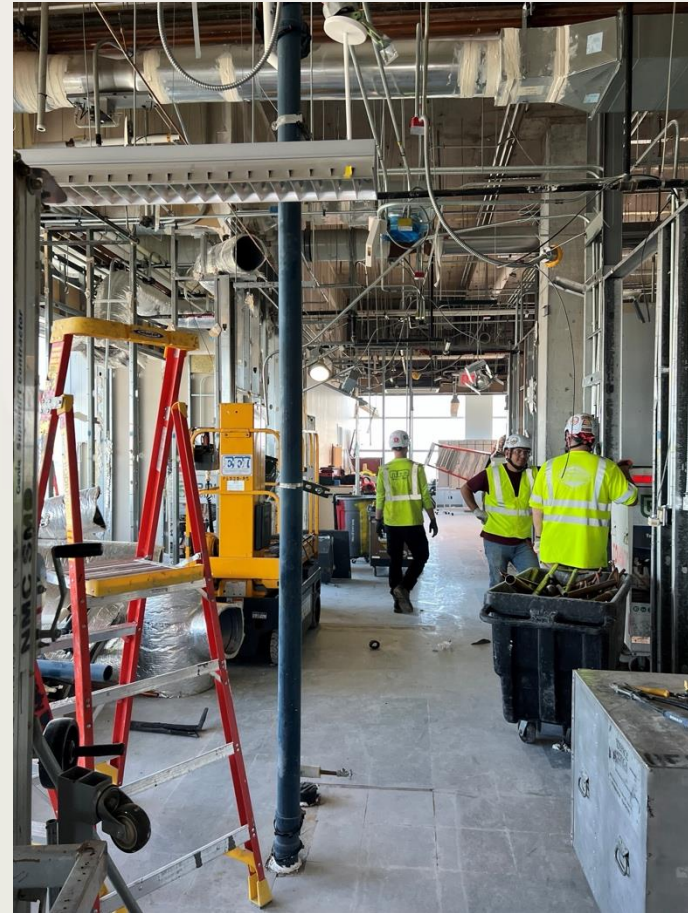
## MRBIV Infectious Disease Core ResOurce (MICRO)

- State of the art facility for work at Biosafety Level 3 including Select Agent Research



VI4

# MICRO Facility



# Research

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# Research

To provide resources to facilitate and enhance cutting edge research

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# Improve Technical Capabilities

## Equipment purchases:

- Gnotobiotic Support (DAC)
- HT-PCR Viral Diagnostics (Pediatrics)
- Metalloproteomics (MSRC)
- Microbiome support (PMI)
- CISR (Nikon MP)
- Flow Core (Cytex Aurora)



# VI4 Supported Programs and Centers

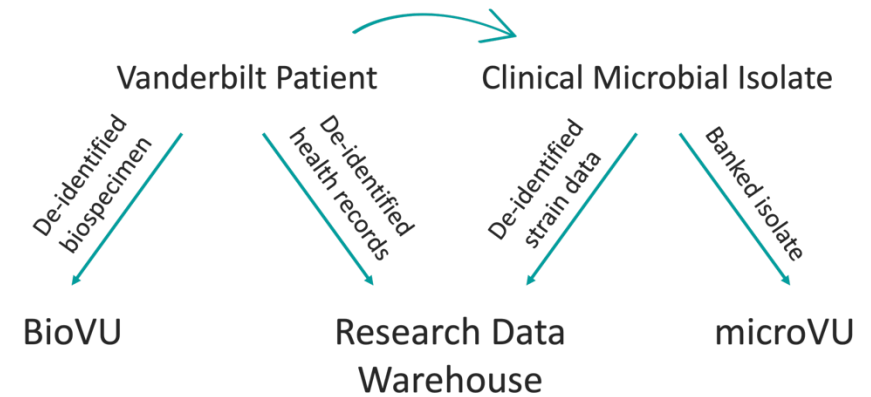
- Center for Personalized Microbiology
- Microbiome Innovation Center (VMIC)
- Center for Computational Microbiology and Immunology (CMI)
- Vanderbilt Center for Immunobiology (VCI)
- Program in Imaging of Infection and Immunity



# microVU and the center for personalized microbiology



- We can consult on and support different projects requiring the use and analysis of multiple isolates or clinical samples from microVU
- Banking of >20k of isolates/specimens annually connected to the RDW and can be queried via Starbrite.
- 39 institutional and external projects (in progress and completed)



- Activities from projects resulted in 29 publications and >\$9M in federal grant support and 17 industry contracts for CPMi affiliated investigators
- Strategic emphasis in coming year is exploring avenues for partnership with emergent AMR initiative and its need for connectivity with clinical microbial resources



# Vanderbilt Microbiome Innovation Center

## CO-DIRECTORS



**Mariana Byndloss,  
DVM, PhD**  
Assistant Professor  
Pathology, Microbiology  
and Immunology  
VUMC



**Steve Townsend, PhD**  
Professor  
Chemistry  
VU

## ASSOCIATE DIRECTORS



**Megan Behringer, PhD**  
Assistant Professor  
Biological Sciences  
VU



**Maribeth Nicholson,  
MD, MPH**  
Associate Professor  
Medicine  
VUMC

# Vanderbilt Microbiome Innovation Center

## Microbiome Research

- Support for multi-omics analysis
- Partnership with genomics and metabolomics cores
- Increase access to gnotobiotic facilities
- Increase access to anaerobic chambers
- Pilot funding

## Education

- Speakers in VI4 Seminar Series
- Incorporate Microbiome in undergraduate and graduate classes

## Outreach

- Support community outreach performed by the Vanderbilt Microbiome Society (undergraduate society)

# Vanderbilt Microbiome Innovation Center

**Gnotobiotic Mouse Facility**



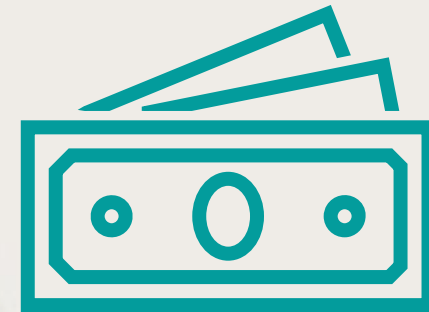
**Gnotobiotic Fish Room**



**Anaerobic Chamber**



**Gnotobiotic Pilot Grants**



Supported by a generous donation to VI4 from the Robert Lipman and Katherine Follin Fund

# Vanderbilt Microbiome Innovation Center

## Data Science Support



**Nicole Kirchoff, PhD**  
Data Scientist, VI4/VMIC

- **Support for members of VMIC on microbiome study design and microbiome data analysis**
  - Includes 16S, metagenomics, and microbial RNASeq analysis
- **Office hours Tues & Thurs 9-11am**
  - Discuss hypotheses, study design, analysis, feasibility, etc.
- **Assisted with 18 projects across 11 VU/VUMC labs**
  - *Manuscripts:* 1 published, 1 in revision, 3 in-preparation
  - *Grants:* 1 awarded, 2 submitted
  - *Sample analysis:* analyzed data from pediatric IBD patients, preterm neonates, and murine models

Email Dr. Kirchoff at [nicole.kirchoff@vumc.org](mailto:nicole.kirchoff@vumc.org)

# Center for Computational Microbiology and Immunology (CMI)

## CMI publications:

- *PLOS Computational Biology, Bioinformatics Advances, Cell, Structure, PLOS Pathogens, mBio*

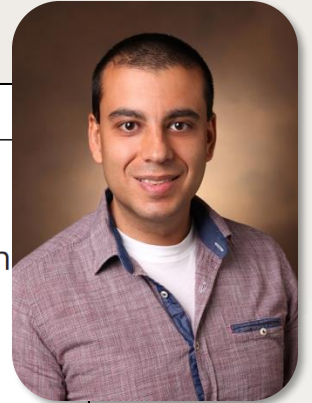
## New funding:

- ARPA-H: AI-enabled generation of antigen-specific antibodies

## Initiatives:

- Collab drylab, coding hour, ACCRE resources, IGP coursework, CMI journal club

Ivelin Georgiev, PhD



## PLOS COMPUTATIONAL BIOLOGY

### METHODS

An expandable synthetic library of human paired antibody sequences

Toma M. Marinov<sup>1,2</sup>, Perry T. Wasdin<sup>1,2</sup>, Gwen Jordaan<sup>1</sup>, Alexis K. Janke<sup>1</sup>, Alexandra A. Abu-Shmais<sup>1,3</sup>, Ivelin S. Georgiev<sup>1,2,3,4,5,6,7,8,9\*</sup>

<sup>1</sup> Vanderbilt Center for Antibody Therapeutics, Vanderbilt University Medical Center, Nashville, Tennessee, United States of America, <sup>2</sup> Center for Computational Microbiology and Immunology, Vanderbilt University Medical Center, Nashville, Tennessee, United States of America, <sup>3</sup> Vanderbilt Institute for Infection, Immunology and Inflammation, Vanderbilt University Medical Center, Nashville, Tennessee, United States of America, <sup>4</sup> Department of Pathology, Microbiology, and Immunology, Vanderbilt University Medical Center, Nashville, Tennessee, United States of America, <sup>5</sup> Department of Computer Science, Vanderbilt University, Nashville, Tennessee, United States of America, <sup>6</sup> Department of Biomedical Informatics, Vanderbilt University, Nashville, Tennessee, United States of America, <sup>7</sup> Department of Chemical and Biomolecular Engineering, Vanderbilt University, Nashville, Tennessee, United States of America, <sup>8</sup> Department of Biochemistry, Vanderbilt University, Nashville, Tennessee, United States of America, <sup>9</sup> Center for Structural Biology, Vanderbilt University, Nashville, Tennessee, United States of America

\* [ivelin.georgiev@vanderbilt.edu](mailto:ivelin.georgiev@vanderbilt.edu)



OXFORD

## Immunoinformatics

**Negative binomial mixture model for identification of noise in antibody-antigen specificity predictions from single-cell data**

Perry T. Wasdin<sup>1,2,3</sup>, Alexandra A. Abu-Shmais<sup>3,4</sup>, Michael W. Irvin<sup>5</sup>, Matthew J. Vukovich<sup>3,4</sup>, Ivelin S. Georgiev<sup>1,2,3,4,6,7,8,\*</sup>

<sup>1</sup>Program in Chemical and Physical Biology, Vanderbilt University Medical Center, Nashville, TN, 37232, United States

<sup>2</sup>Center for Computational Microbiology and Immunology, Vanderbilt University Medical Center, Nashville, TN, 37232, United States

<sup>3</sup>Vanderbilt Vaccine Center, Vanderbilt University Medical Center, Nashville, TN, 37232, United States

<sup>4</sup>Department of Pathology, Microbiology and Immunology, Vanderbilt University Medical Center, Nashville, TN, 37232, United States

<sup>5</sup>Multiscale Modeling Group, Computational Biology Hub, Altos Laboratories, Redwood City, CA, 94065, United States

<sup>6</sup>Department of Computer Science, Vanderbilt University, Nashville, TN, 37232, United States

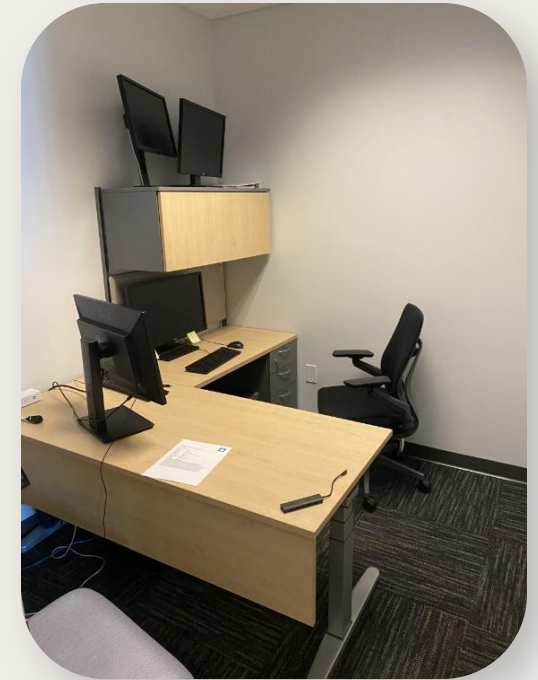
<sup>7</sup>Vanderbilt Institute for Infection, Immunology and Inflammation, Vanderbilt University Medical Center, Nashville, TN, 37232, United States

<sup>8</sup>Center for Structural Biology, Vanderbilt University, Nashville, TN, 37232, United States

\*Corresponding author. Department of Pathology, Microbiology and Immunology, Vanderbilt University Medical Center, Nashville, TN, 37232, United States. E-mail: [ivelin.georgiev@vanderbilt.edu](mailto:ivelin.georgiev@vanderbilt.edu).



# Program in Computational Microbiology and Immunology (CMI)



CMI Dry Lab Space – 2525 West End

# Vanderbilt Center for Immunobiology



VANDERBILT  
Center for  
IMMUNOBIOLOGY

DIRECTOR



**Henrique Serezani,**

**PhD**

Associate Professor  
Medicine, Infectious  
Diseases  
VUMC

The VCI believes in the value of basic science discovery in promoting innovation in personalized healthcare for immune diseases and excellence in immunology research and education.

The mission of the VCI is to advance discovery in human immunology and, through the basic biology and genetics of immune cells, promote understanding and education in immunology, as well as inform the treatment of immune and inflammatory diseases.

# Vanderbilt Center for Immunobiology



VANDERBILT  
Center for  
IMMUNOBIOLOGY

## Immunology Journal Club

- Has been meeting for over 35 years.
- Meets every Friday from Noon – 1:00 pm
- Students, faculty, and postdocs share their insights during discussions about all aspects of immunology.

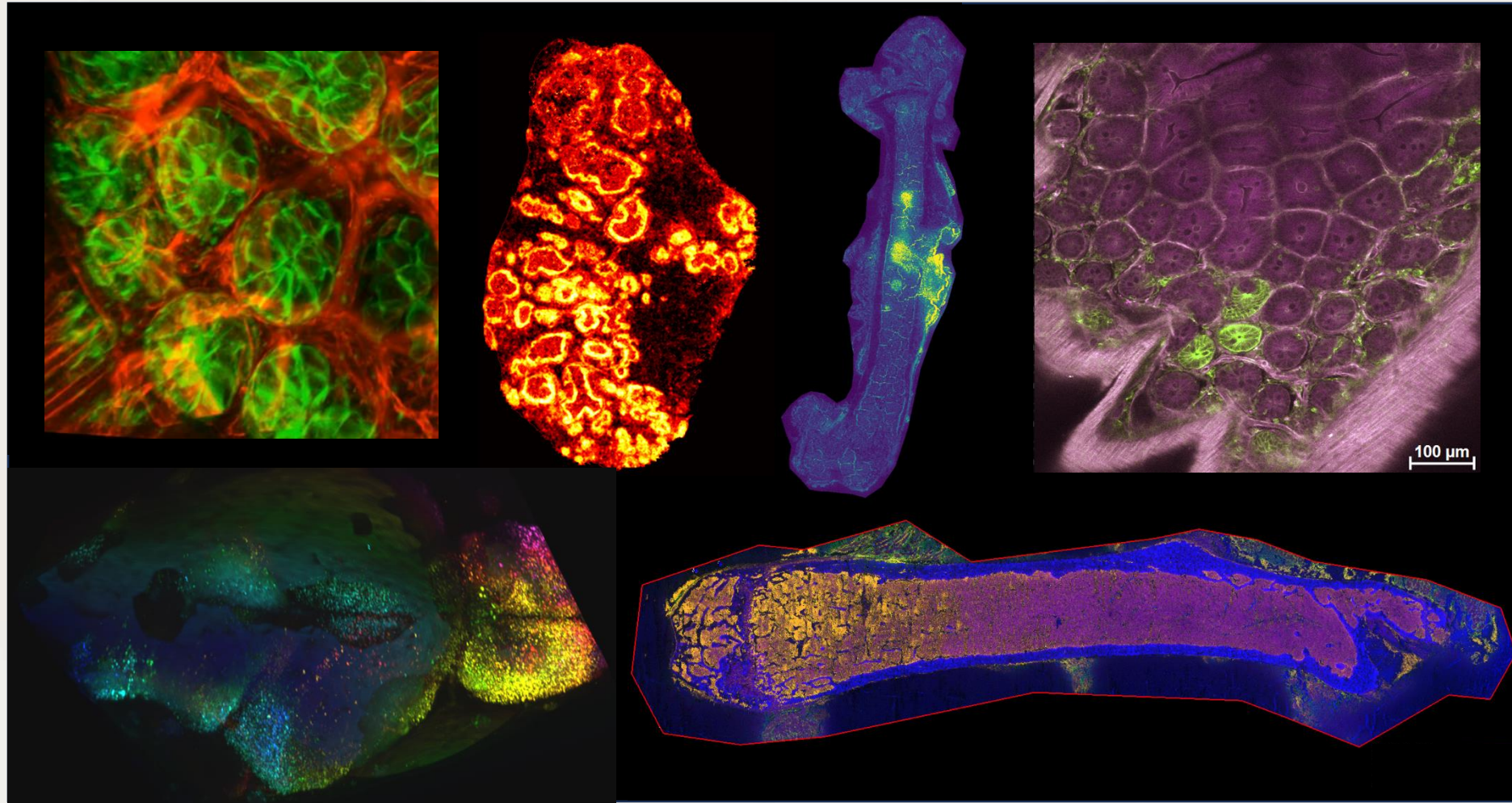
## Data Club

- Meets on the 2nd Friday of every month from 9:00 to 10:00 am
- Member labs present current research.

## Human Immunology Forum

- Meets on the 3rd Friday of every month from 9:00 to 10:00 am
- Brings together clinical, translational, and basic scientists to discuss diverse immune-related disorders among VUMC researchers.
- Encourages discussion of critical questions and new advances in the pathobiology of human immunobiology.

# Program in Imaging of Infection and Immunity



Jim Cassat

# Program in Imaging of Infection and Immunity

## VI4 Investments in imaging research:

- Partnering with core facilities to ensure access, resources, and SOPs for researchers operating at higher biosafety levels
- Hiring of Dr. Tegya Vadakkan, Senior Research Specialist within the CISR (2022)
- Participation in NIH Shared Equipment Grant Applications
- Support for large grant submissions related to imaging

## VI4 usage of CISR has increased significantly:

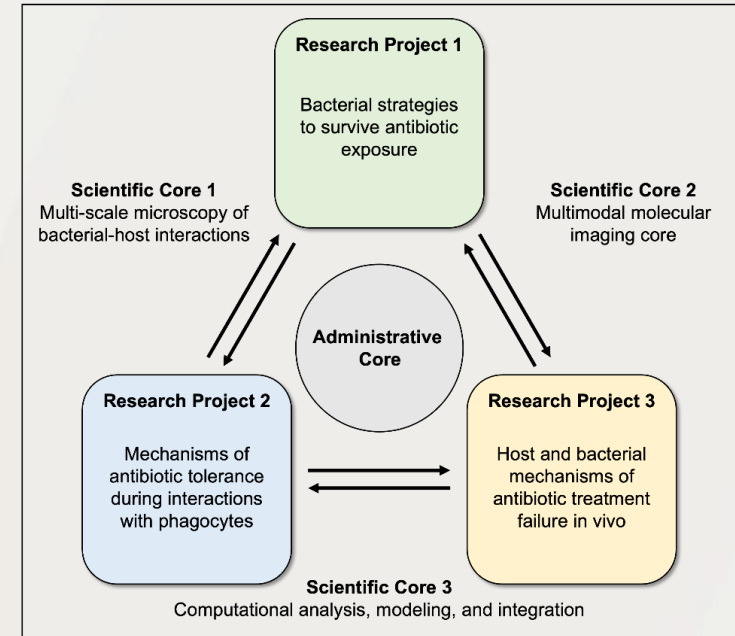
- ~20% increased microscopy time from 2022 to 2024
- 2025 on track for >50% increase in imaging time
- >50% reduction in “Consultation and Training” charges



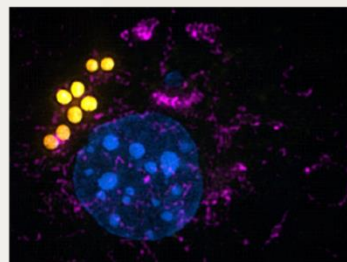
# Program in Imaging of Infection and Immunity

## Resubmission of a \$13.8 million P01 application

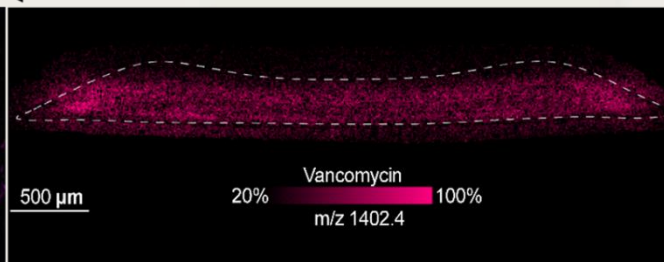
- Leverages Vanderbilt's strengths in imaging to study mechanisms of antibiotic treatment failure
- 6 sites, 3 Research Projects, 3 Scientific Cores and an Administrative Core



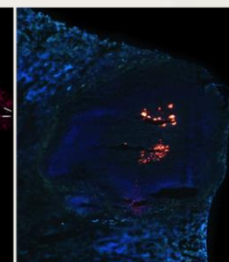
**Scientific Core 1: Multi-microscopy of bacterial host interactions**



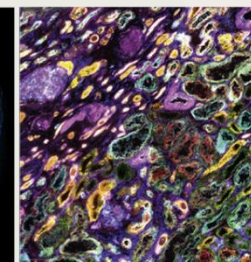
*Host-microbe interactions visualized at the single-cell level*



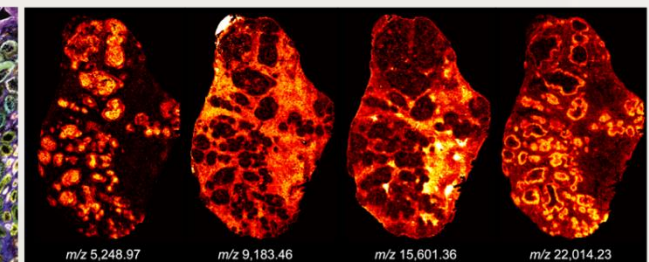
*Profiling of bacterial communities by fluorescent microscopy and imaging mass spectrometry (IMS)*



*Imaging bacterial communities in vivo*



*Spatial multi-omic analyses*

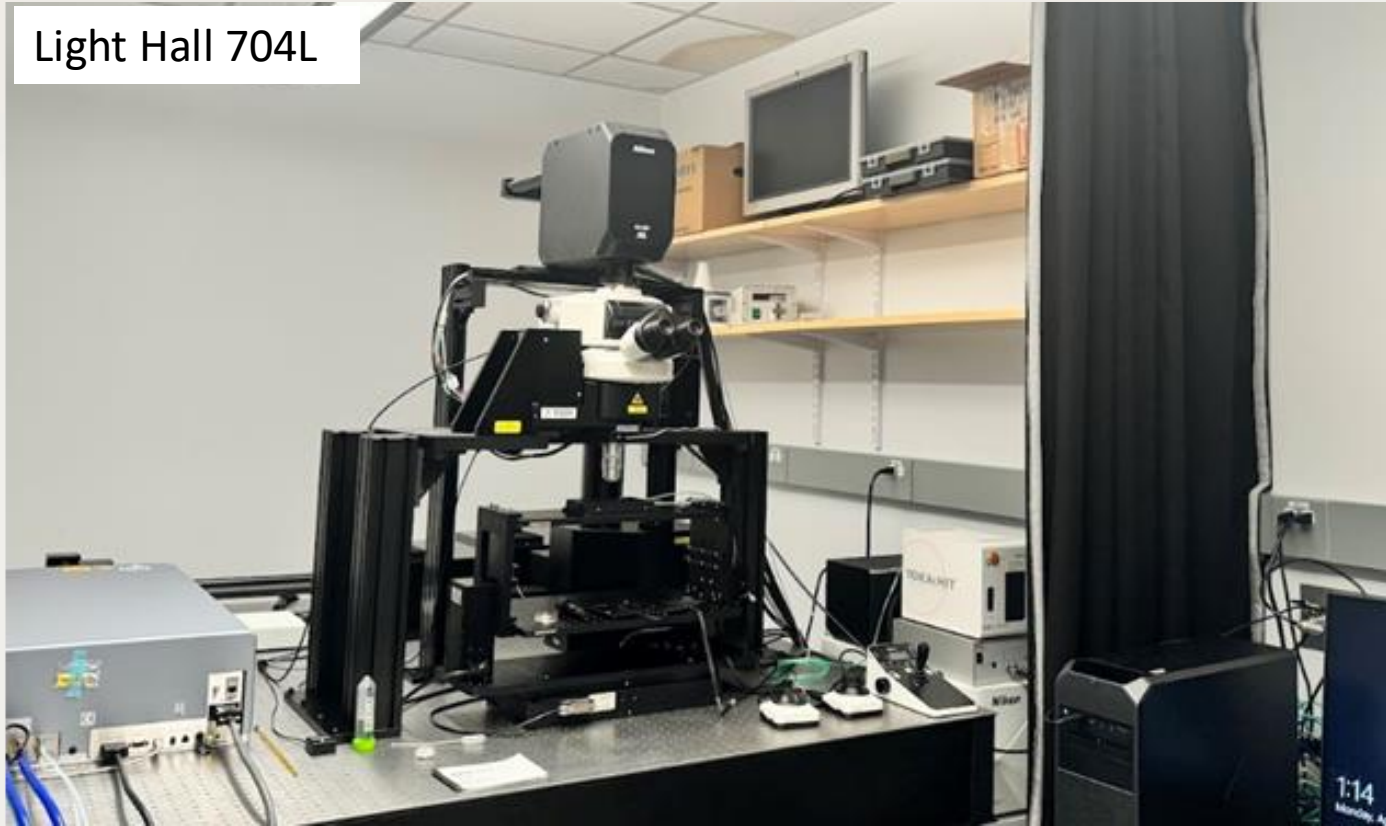


*Identification of host and bacterial analytes in tissues harboring antibiotic tolerant bacteria by IMS*

**Scientific Core 3: Computational analysis, modeling, and integration core**

# New capabilities for intravital microscopy

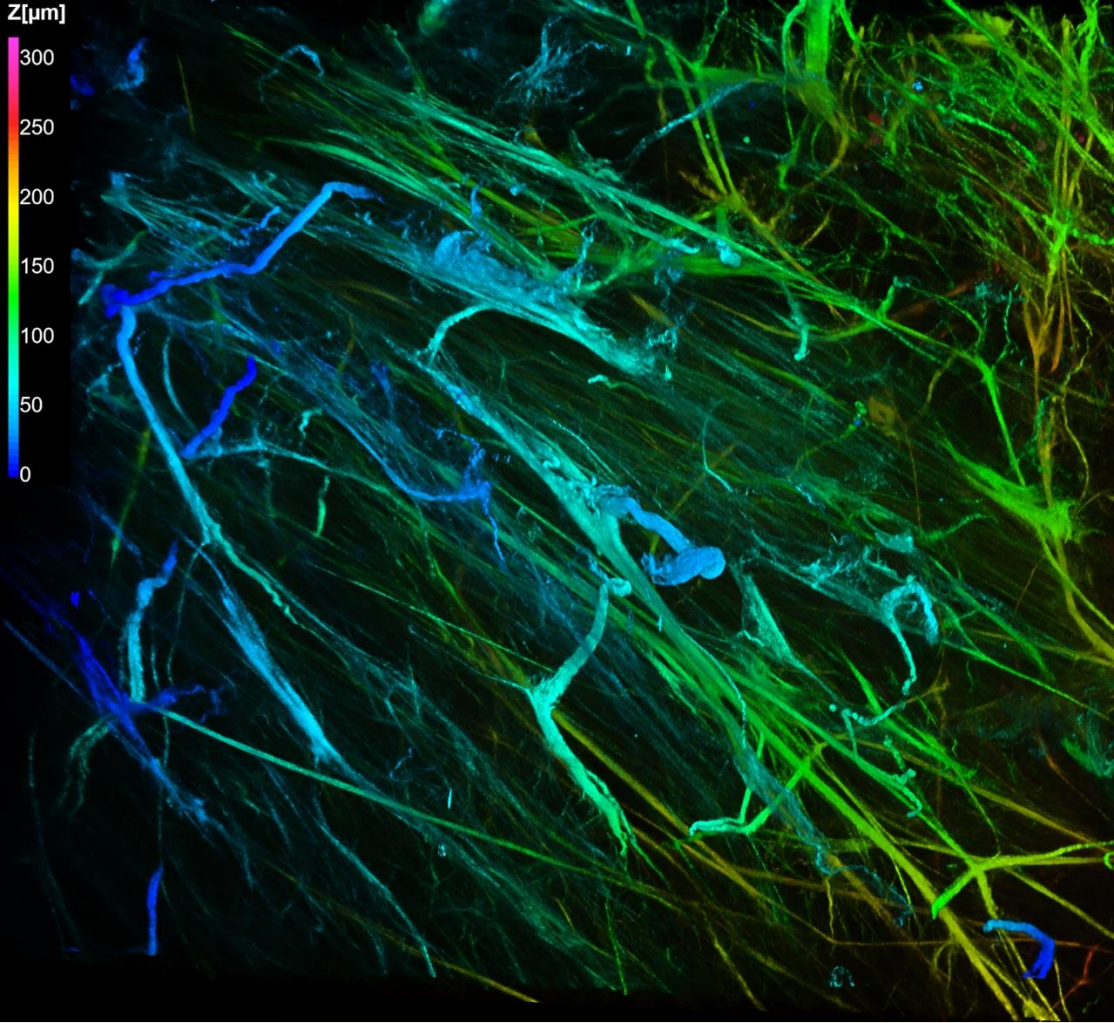
Light Hall 704L



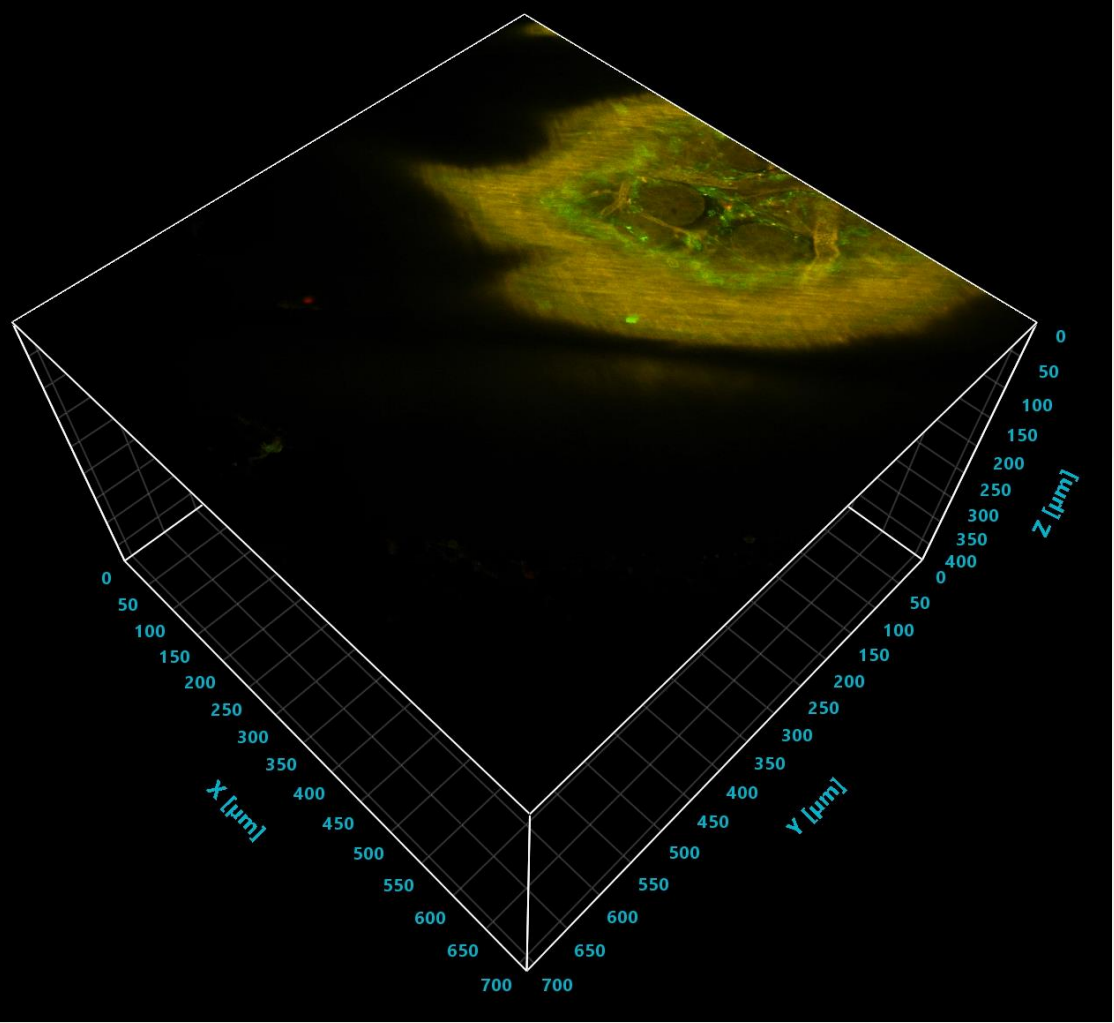
Nikon AX R MP Multiphoton Microscopy System

- Acquired via NIH High-End Instrumentation S10 program
- Features:
  - High-definition imaging of deep tissues / thick specimens
    - >600 microns
  - High spatial resolution
    - Up to 8K x 8K across a 22mm field of view
  - High temporal resolution
    - Up to 720 fps

# Nikon MP Sample images



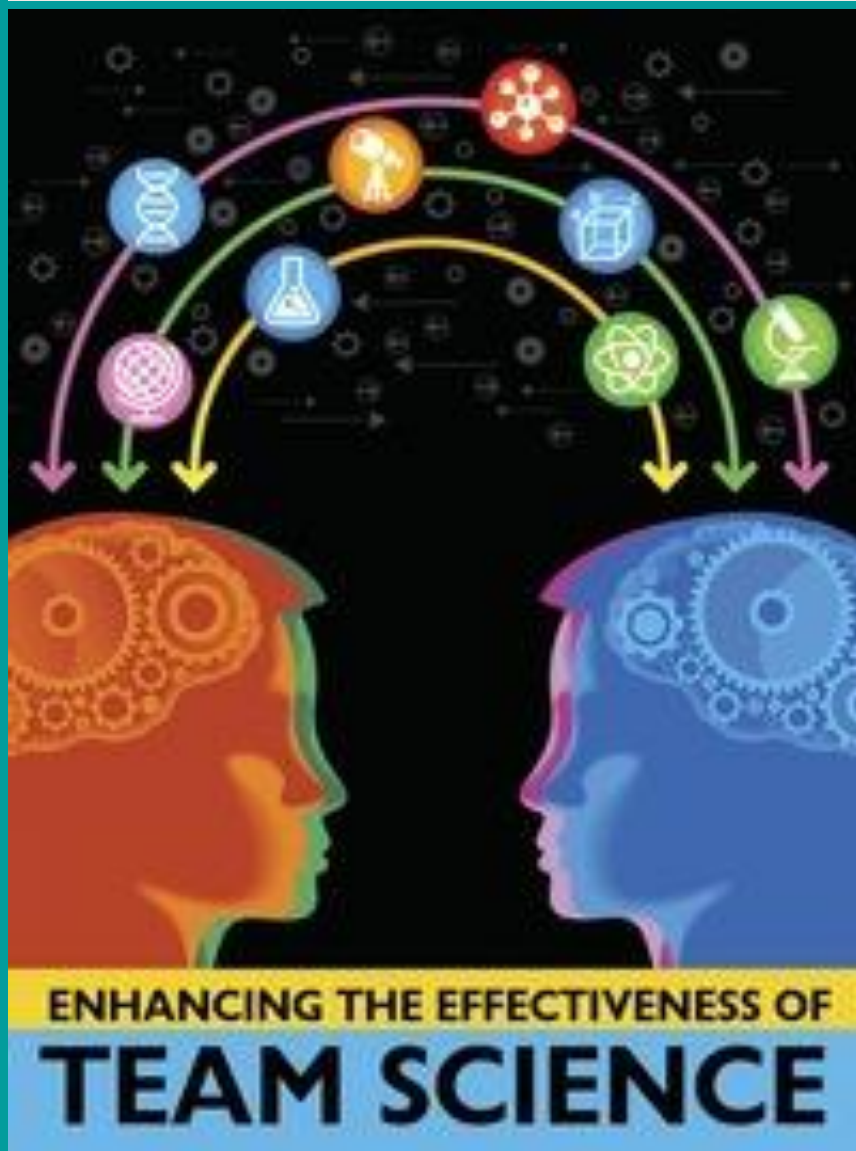
Maxwell Hamilton, Coffey Lab  
SHG imaging of colorectal cancer xenograft



Sarah Price, Skaar Lab  
Intestinal explant from mTmG mouse



# Support of Team Science



## VANDy-CdV U19 (Awarded)

- **Title: Vanderbilt Antibody and Antigen Discovery for *Clostridioides difficile* Vaccines**
- PI: Borden Lacy
- Project Leads: Lacy, Spiller, Kroh, Skaar, Creech, Nicholson, Georgiev, Olivares-Villagomez

## Antibodies and AI (Awarded)

- **Title: AI-Enabled Generation of Antigen-Specific Antibodies**
- PI: Ivelin Georgiev
- Project Leads: Park, Hadjifrangiskou, Goettel, Skaar

## Imaging P01 (Reviewed/Scored)

- **TITLE: Host and microbial determinants that drive antibiotic failure)**
- PI: Jim Cassat
- Project Leads: Conlon (UNC), Helaine (Harvard), Tyska, Spraggins (Vandy), van de Plas (Delft), Goncalves (Delft)

# Education and Training

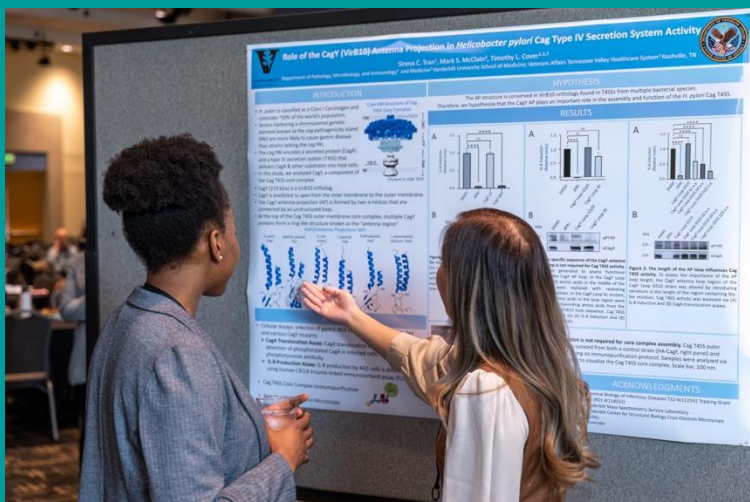
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# Education and Training

STRATEGY

Enhance existing training programs focused on infection, immunity, and inflammation





# Seminar Series

Every other Tuesday at 10:30am in LH 512

Check our newsletter for the most up to date information.

Or email:

[VI4Research@vumc.org](mailto:VI4Research@vumc.org)

Fall schedule available at [vumc.org/viii](http://vumc.org/viii)



New this year! Graduate Student attendance competition

**THANK YOU  
SPEAKERS**

**FOR AN AMAZING '24-'25 VI4  
SEMINAR SERIES!**





# MHI/MPI Graduate Student Seminar Attendance Challenge

## Why Attend the VI4 & PMI Tuesday Seminars?

Learn & be inspired by research in pathology, microbiology, and immunology

Network at lunch with top researchers from around the country

Compete & win – 3 graduate students with the best Fall 2025 attendance earn a free dinner with a VU/VUMC faculty member of their choice





# Annual Research Symposium

Save the date: April 30<sup>th</sup>, 2026 at the Student Life Center

- Citation Awards
- Poster Sessions
- Trainee Presentations



# Graduate & Postdoctoral Programs

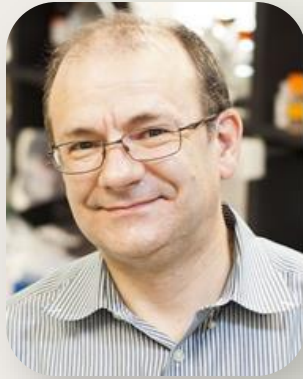
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# Administration of the Immunology and Microbiology Curricula

- Molecular Pathology and Immunology (MPI)
- Microbe-Host Interactions (MHI)



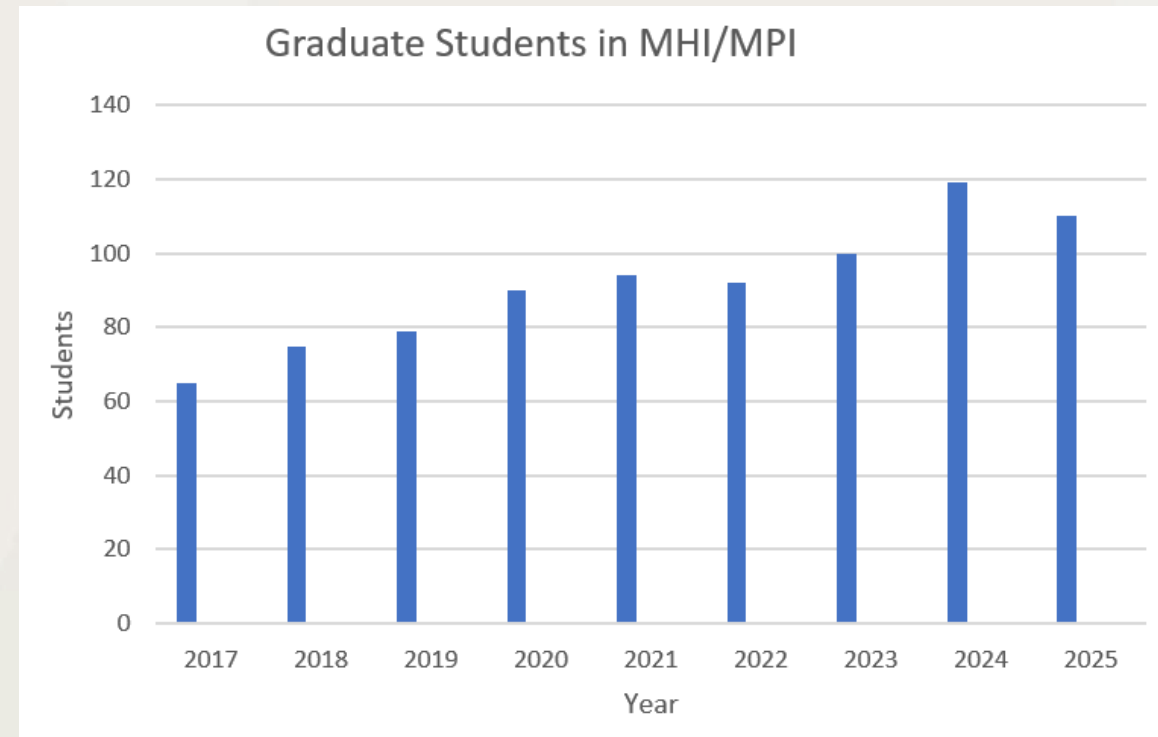
Jay Jerome



Luc Van Kaer



Kristin Patrick





# CBID T32 Training Program

- Supported 43 students to date
- Internships in Big Pharma
  - Pfizer, AstraZeneca, renewed agreement with Merck
  - Multiple trainees have found jobs from internship
- Careers in Pharma Day, January 2018, April 2019, May 2021, May 2023, Life Sciences Showcase July 2024

**CBID was officially renewed!!**

The image shows a screenshot of the website for the Chemical Biology of Infectious Disease Training Program. The website header includes the title, a search bar, and a navigation menu with links for Home, Administration, Background, Faculty, Training, Partners, and Trainees. Below the header is a banner with the text "Training young investigators to combat infectious diseases". To the right of the banner is a photograph of a panel discussion titled "Biotech & Pharma Industry Internship Panel Discussion".

Below the website screenshot is a poster for "CAREERS IN PHARMACEUTICAL INDUSTRY DAY". The poster is presented by the Chemical Biology of Infectious Diseases Training Program in partnership with the Molecular Biophysics Training Program and the Chemistry Biology Interface Training Program. The event is scheduled for Monday, May 24, from 12 - 4pm on Zoom. A link is provided to register for the event. The VI4 logo is visible in the bottom right corner of the poster.

# Global Scholar Program

- Partnership with VIGH
  - Support PhD externship with global partner
  - Brynn Roman
    - [The Aurum Institute – Thembisa | Gauteng, South Africa](#)
- Applications are considered on a rolling basis
  - Email [megan.schladt@vumc.org](mailto:megan.schladt@vumc.org) for more info



# Junior Faculty Programs

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# Junior Faculty Leadership



Ruben Martinez  
Barricarte, PhD



Megan  
Behringer, PhD



Will Wan, PhD



Monica  
Santisteban, PhD



## Events & Resources

- Mini- Sessions
- Social/Networking
- Peer Review Groups
- Bi-annual Retreats
- Lab Startup Guide

3-2-1-BLASTOFF!  
**TIPS FOR LAUNCHING  
YOUR LAB INTO ORBIT**  
MONDAY, OCTOBER 20<sup>TH</sup>  
12:30 – 2:00 PM  
MCN A 5221

PRESENTED BY  
**RACHEL H. BONAMI, PHD**  
ASSISTANT PROFESSOR OF MEDICINE, DIVISION OF RHEUMATOLOGY AND IMMUNOLOGY  
ASSISTANT PROFESSOR OF PATHOLOGY, MICROBIOLOGY, AND IMMUNOLOGY  
ASSOCIATE DIRECTOR OF INFORMATICS, VANDERBILT CENTER FOR IMMUNOBIOLOGY



Visit [vumc.org/viii/junior-faculty](https://vumc.org/viii/junior-faculty) for Peer Review Group information, Lab Startup Guide, and other Resources.

# Lab Start Up and Resources

- Quick reference guide for new and junior faculty
  - VI4 Administrative and Grant Resources
  - Lab Start Up Contacts and Tips
  - Important Dates and Events
- Additional resources
  - Alternative Funding Opportunities
  - Recruitment Assistance
- Available on website and emailed directly to new hires



## Vanderbilt Institute for Infection, Immunology and Inflammation

About ▾ Members ✕ Programs ▾ Outreach ▾ Events ▾ Resources ▾

Faculty

Member Resources

Our Mis

on of scientists and physicians and make fundamental discoveries in the areas of infection biology,

# Marketing & Engagement

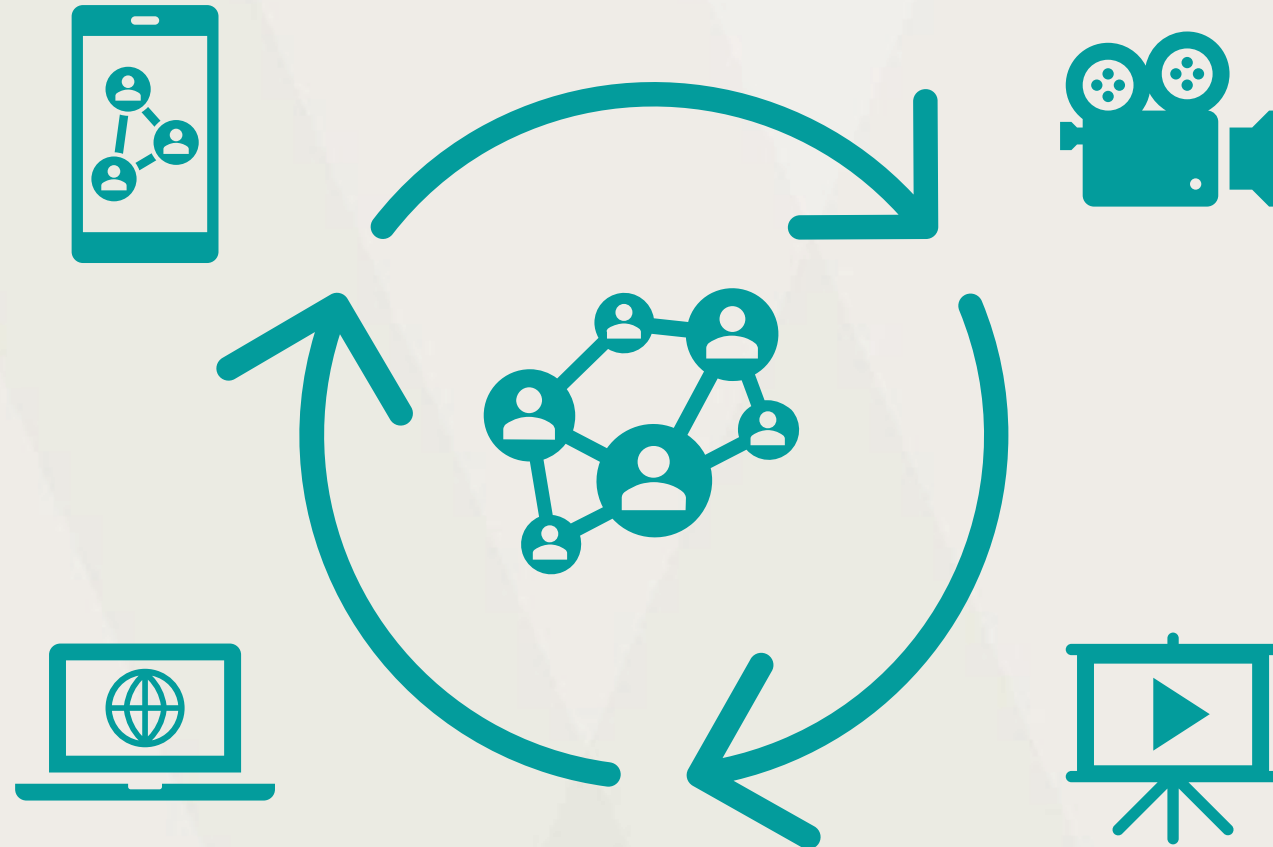
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# Marketing & Engagement

Run a coordinated marketing campaign to highlight VI4 research within and outside Vanderbilt

STRATEGY



# The Studio

Located in [MCN T2309](#), the studio is a comfortable creative environment that utilizes efficient workflows and automation to allow all users to easily come in, make a great video, and get back to work.

Virtual Seminars  
Remote Interviews  
Video Abstracts  
Dissertation Defenses  
Asynchronous Class Videos  
Presentation Practice  
Resource Commercials  
And more!

[vumc.org/viii/studio](http://vumc.org/viii/studio)





# Marketing & Engagement

Faculty & Trainee  
Spotlights



VI4 Scientists  
Doing Things



# Resource Commercials



Cell Imaging Shared Resource (CISR)

Center for Structural Biology (CSB)

VANTAGE

Translational Pathology Shared

Resource (TPSR)

Vanderbilt University Institute of

Imaging Science (VUIIS)

[vumc.org/viii/cores](http://vumc.org/viii/cores)

# Support for Recruiting

We can help you advertise your open positions

## Newsletter

- Hiring -



### Post-Doc Opportunity

The Center for Drug Safety and Immunology is looking for post-doc interested in human immunology, drug allergy, pharmacogenomics & cutting-edge single-cell technology!

Contact [elizabeth.j.phillips@vumc.org](mailto:elizabeth.j.phillips@vumc.org) or [drugsafetyresearch@vumc.org](mailto:drugsafetyresearch@vumc.org) for more info.

## Website

### Current Opportunities

Postdoctoral Scholar - Karijovich Lab at Vanderbilt University School of Medicine

Research Assistant I or II - Doran Lab at Vanderbilt University Medical Center

Postdoctoral Scholar - Denison Lab at Vanderbilt University Medical Center

Postdoctoral Fellow - Joyce Lab at Vanderbilt University Medical Center

Postdoctoral Fellow and Research Assistant Positions - Georgiev Lab at Vanderbilt University Medical Center

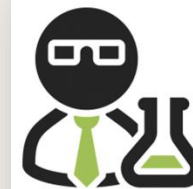
Postdoctoral Fellow - Norris Lab at Center for Vaccines and Immunology at the University of Georgia

Staff Scientist - Vanderbilt Center for Immunobiology (VCI) at Vanderbilt University Medical Center

Research Assistant I or II - Patrick Lab at Vanderbilt University Medical Center

Research Assistant II - Behringer Lab at Vanderbilt University

Faculty Position - Program in Computational Microbiology and Immunology at Vanderbilt University Medical Center



Opportunity:

- YOUR JOB HERE -

We can help you promote your open positions to audiences in and outside of the Vanderbilt community.

# VI4 Artist in Residence Program

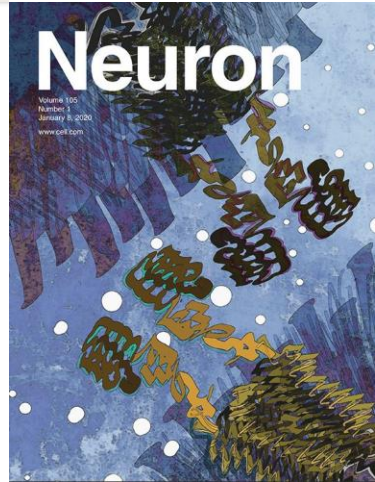
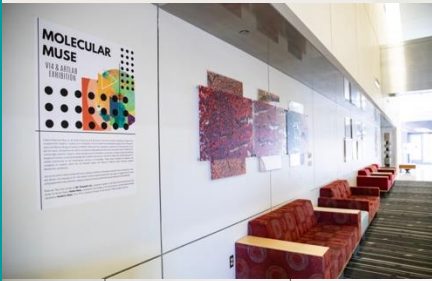
- 5 of 6 years supported by external funding
  - BWF renewal for 2025 (\$75,000)
- 2024 Annual report available online

Over last five years...

- **Over 100 student artists**
- **Over 40 labs**
- Over **30 covers accepted** (*more coming!*), graphics in **15 publications**, and hundreds of animations, and other media for science conference, websites, and social media

Summer 2025 Program

- 17 students worked with *Cell Trends*
  - *Integrating generative AI and data science tools*



# Community Outreach

MEGAMicrobe – September 27, 2025  
Jones Paideia Elementary School, 9:30am-2pm



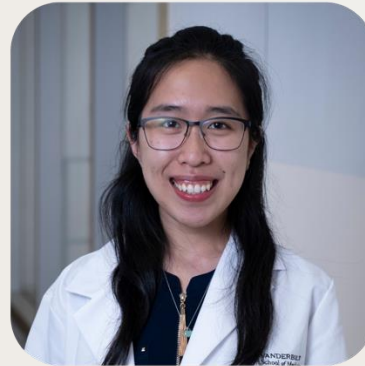
[www.vumc.org/viii/MEGAMicrobe](http://www.vumc.org/viii/MEGAMicrobe)



# Science Communication Internship



**Georgia Caso**  
PhD candidate in  
Dr. Timothy Cover's Lab



**Jia Mei**  
PhD candidate in  
Dr. Jim Cassat's lab



**KeAndreyia  
Morrison, PhD**  
Recent PhD Graduate at  
*Meharry Medical College* and  
worked in Dr. Tina Iverson's lab



**Cherie Saffold**  
PhD candidate in  
Dr. Heather Pua's Lab

- Social Media, Writing, Graphic Design, Photography and Video Production



THE DEPARTMENT OF  
**PATHOLOGY,  
MICROBIOLOGY AND  
IMMUNOLOGY**



[vumc.org/viii/scicomminternship](http://vumc.org/viii/scicomminternship)

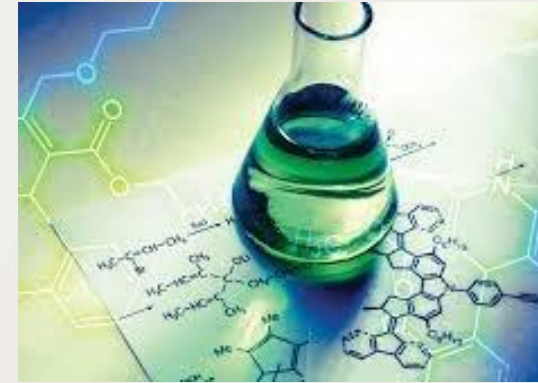
Things to look for in 2025



# Program in Antimicrobial Discovery



CBID

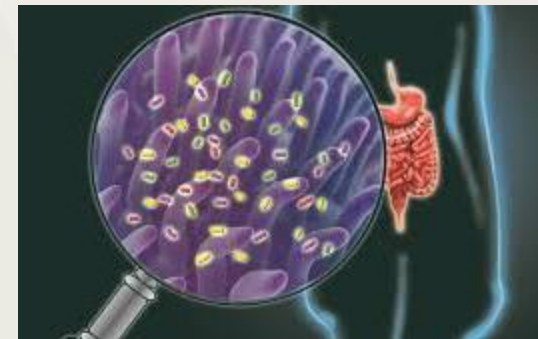


VI4-Warren Center



Immunotherapeutics

## Program in Antimicrobial Discovery



Microbial Therapeutics



# Graduate Student Exchange Program

- “Mini-sabbatical” style program
  - 4 week internship
  - Piloted program in 2024 with UCSD
  - Will expand to 7 US institutions starting next year
- First cohort summer 2026
  - Applications to open spring 2026
  - Email [megan.schladt@vumc.org](mailto:megan.schladt@vumc.org) for more info



# VI4 MICRO Opening



5 - WORK ROOM P410A



6 - PROCEDURE ROOM P410C



7 - PROCEDURE ROOM P410C

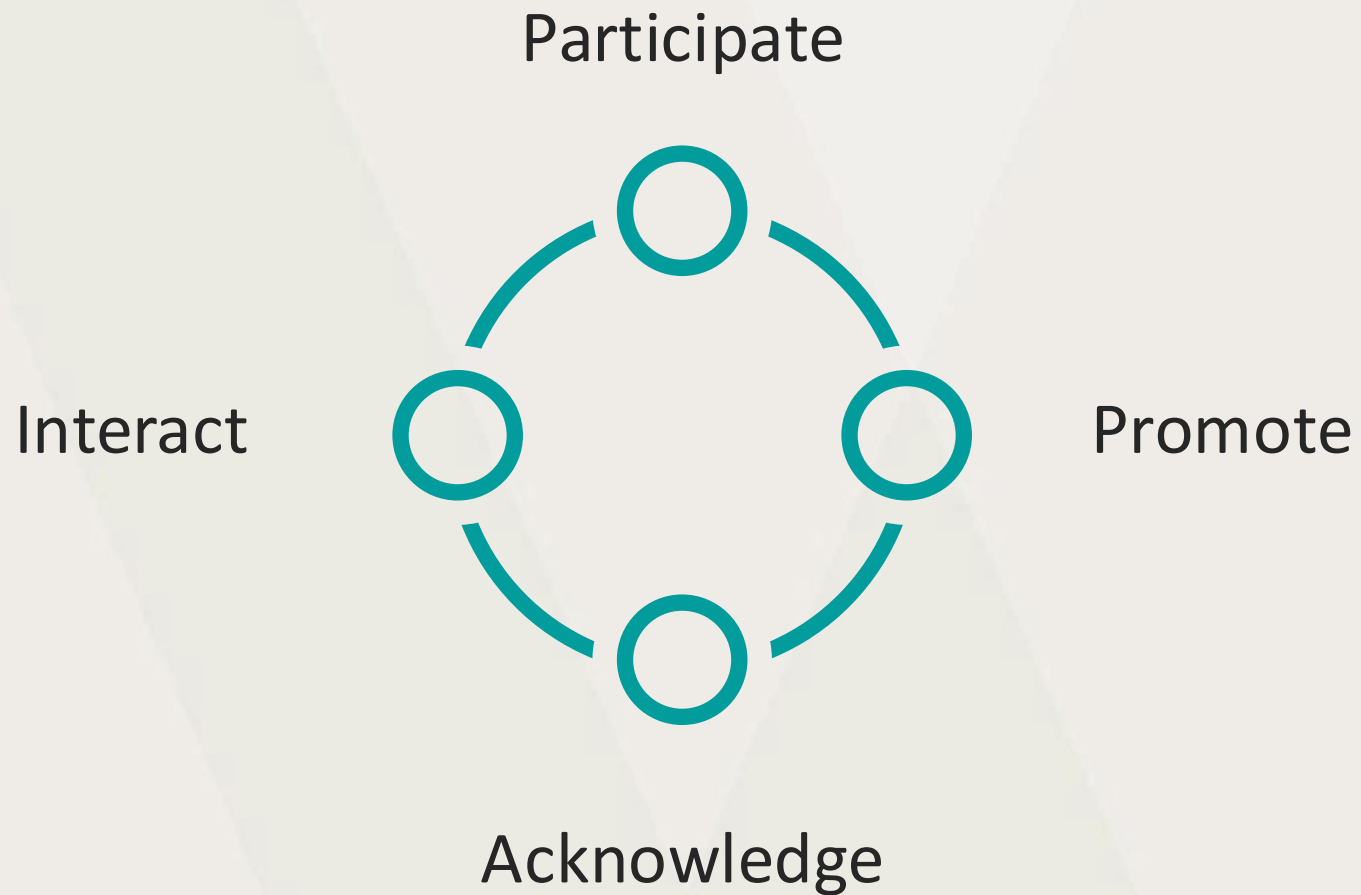


8 - PROCEDURE ROOM P410B

Expected  
Completion  
May 2026



# How You Can Help



# Vanderbilt Institute for Infection, Immunology and Inflammation (VI4)

**VI4**

