

# NIH Research Festival

*Showcasing  
achievements from  
NIH labs & clinics*



## Join us for:

- TED-style Opening Talk
- Biomedical Vendor Exhibits and Workshops
- Staff Clinicians Mini-Symposium
- Poster Sessions
- Concurrent Scientific Workshops
- NIH Resource Information Fair
- Independent Research Scholars Mini-Symposium
- Harden History Lecture, Anita Roberts Lecture, G. Burroughs Mider Lecture, and a special FAES event with Dr. Elias Zerhouni!

**September 9–12, 2025**

**Building 10 | NIH Bethesda Campus**

*Lipsett Amphitheater, NIH Library, South Lobby,  
FAES Terrace, and FAES Classrooms*

Image credit: National Institutes of Health, Aerial view of the Mark O. Hatfield Clinical Research Center (Building 10), NIH Campus, Bethesda, MD.



**Intramural Research Program**  
*Our Research Changes Lives*

**[researchfestival.nih.gov](https://researchfestival.nih.gov)**



# General Schedule of Events

*All events in Bldg 10. Light refreshments will be served. Food trucks available for lunch, 11 a.m. – 2 p.m.*

## Tuesday, September 9, 2025

- 9:30 a.m. – 11:00 a.m.** Poster Session I, *FAES Terrace*
- 10:00 a.m. – 10:30 a.m.** Intro by DDIR & TED-style Opening Talk, *Lipsett*
- 10:00 a.m. – 2:00 p.m.** Concurrent Intramural Workshops Day 1, *FAES Classrooms*
- 10:00 a.m. – 2:00 p.m.** NIH Resource Information Fair, *South Lobby*
- 10:00 a.m. – 2:00 p.m.** Virtual Reality Demos, *NIH Library*
- 10:00 a.m. – 4:00 p.m.** Bioinformatics Community Fair, *NIH Library*
- 10:30 a.m. – 12:30 p.m.** Independent Research Scholars Mini-Symposium, *Lipsett*
- 11:30 a.m. – 1:00 p.m.** Poster Session II, *FAES Terrace*
- 1:00 p.m. – 3:00 p.m.** Staff Clinicians Mini-Symposium, *Lipsett*
- 1:30 p.m. – 3:00 p.m.** Poster Session III, *FAES Terrace*
- 3:30 p.m. – 5:00 p.m.** Poster Session IV, *FAES Terrace*

## Wednesday, September 10, 2025

- 10:00 a.m. – 11:00 a.m.** Victoria A. Harden Lecture in NIH History, *Lipsett*
- 10:00 a.m. – 2:00 p.m.** Vendor Exhibit Show Day 1, *South Lobby only*
- 10:00 a.m. – 2:00 p.m.** Virtual Reality Demos, *NIH Library*
- 10:00 a.m. – 4:00 p.m.** Concurrent Intramural Workshops Day 2, *FAES Classrooms*
- 11:30 a.m. – 12:30 p.m.** Anita Roberts Lecture with Kelly Ten Hagen, Ph.D., *Lipsett*
- 1:00 p.m. – 2:00 p.m.** 3D Printing and TinkerCAD Workshop, *NIH Library*
- 1:00 p.m. – 4:00 p.m.** FAES Lecture and ‘Meet & Greet’ with Elias Zerhouni, M.D.,  
*Lipsett & Terrace*
- 2:00 p.m. – 3:00 p.m.** 3D Printing Design Considerations Workshop, *NIH Library*
- 3:00 p.m. – 4:00 p.m.** WALSH G. Burroughs Mider Lecture with Gisela Storz, Ph.D., *Lipsett*

## Thursday, September 11, 2025

- 10:00 a.m. – 11:30 a.m.** AI Workshop: Beginner, Prompt Engineering, *NIH Library*
- 10:00 a.m. – 2:00 p.m.** Vendor Exhibit Show Day 2, *South Lobby & FAES Terrace*
- 10:00 a.m. – 2:45 p.m.** Vendor Workshops Day 1, *FAES Classrooms*
- 1:00 p.m. – 2:30 p.m.** AI Workshop: Advanced, *NIH Library*

## Friday, September 12, 2025

- 10:00 a.m. – 2:00 p.m.** Vendor Exhibit Show Day 3, *South Lobby & FAES Terrace*
- 10:00 a.m. – 2:45 p.m.** Vendor Workshops Day 2, *FAES Classrooms*

# Tuesday, September 9, 2025

All events in Bldg 10. Light refreshments will be served. Food trucks available for lunch, 11 a.m. – 2 p.m.

## 9:30 a.m. – 11:00 a.m. Poster Session I, FAES Terrace

Biomedical Engineering & Biophysics, Epidemiology, Immunology, Stem Cell Biology, Structural Biology, Systems Biology, Virology

## 10:00 a.m. – 10:30 a.m. NIH Research Festival Kick-Off, Lipsett

Introduction by Nina Schor, DDIR

TED-style Opening Talk by Paule Joseph, NIAAA

*A Salty Clue: What My Mother-in-Law Taught Me About Smell*

## 10:00 a.m. – 2:00 p.m. NIH Resource Information Fair, South Lobby

Representatives from numerous NIH groups will staff information tables. Stop by and take a look!

## 10:00 a.m. – 2:00 p.m. Virtual Reality Demos, VARIG (Virtual and Augmented Reality Interest Group),

NIH Library Training Room

### Concurrent Scientific Workshops

10:00 a.m. – 4:00 p.m. NIH Library and FAES Classrooms

#### NIH Library Training Room, Bldg. 10

10:00 a.m. – 4:00 p.m. Bioinformatics Community Fair, *Bioinformatics Special Interest Group*

10:00 a.m. – 10:25 a.m. Resources for Bioinformatics Data Analysis at NIH, *Amy Stonelake, BTEP*

10:30 a.m. – 10:55 a.m. Supercharge your Data Analysis with Biowulf, *Antonio Ulloa, CIT*

11:00 a.m. – 11:25 a.m. CBIIT Training at NCI, *Daoud Meerzaman, CBIIT*

11:30 a.m. – 12:00 p.m. Gen AI Community of Practice Tools and Training, *Nick Weber, CIT*

12:00 p.m. – 1:00 p.m. Bioinformatics Q & A and Lunch Break

1:00 p.m. – 1:50 p.m. Using your Personal Computer for Next-Gen Sequencing (NGS) Data Analysis, *Hands-on Session*

2:00 p.m. – 2:50 p.m. Graduating to High-Performance Computing on Biowulf for Bioinformatics Data Analysis, *Hands-on Session*

3:00 p.m. – 3:50 p.m. Reaching for the Sky with Cloud-based Data Analysis at NIH, *Hands-on Session: Anvil and/or Cancer Genomics Cloud*

#### FAES Classrooms

##### CLASSROOM #1:

10:00 a.m. – 11:00 a.m. Religion, Spirituality, and Health Scientific Interest Group (RSH-SIG)

11:30 a.m. – 12:30 p.m. Reverse Phenotyping Core: Genotype-First Clinical Research Workshop

1:00 p.m. – 2:00 p.m. NIH Ombuds Office: Better Feedback, Better Science—Strategies for Effective Exchanges in a Research Environment

##### CLASSROOM #2:

10:00 a.m. – 11:30 a.m. TGF-Beta SIG: TGF- $\beta$  Signaling in Development, Homeostasis, and Disease

12:00 p.m. – 2:00 p.m. Health Disparities Interest Group: Health in Rural America—Challenges and Opportunities

## **10:30 a.m. – 12:30 p.m. Independent Research Scholars Mini-Symposium**

**Moderators:** Erin McCaffrey, Ph.D. (NIAID, Laboratory of Parasitic Diseases, Spatial Immunology Unit)  
Oyesola Oyebo, Ph.D., D.V.M. (NIAID, Laboratory of Parasitic Diseases, Immune Priming Unit)

### **Overview of the Independent Research Scholars Program**

Erin McCaffrey, Ph.D., NIAID, Laboratory of Parasitic Diseases, Spatial Immunology Unit

### **Micro- and Nano-Engineering for Thyroid Immune Diseases**

Parinaz Fathi, Ph.D., NIBIB

### **Human Skin Commensal *Roseomonas mucosa* Regulates Inflammatory Responses in the Skin via TLR Activation**

Portia Gough, Ph.D., NIAID

### **SocioEnvironmental & Ecological Disparities (SeEDs) Group: Planting the Seeds to Understand the Effects of SocioEnvironmental Exposures on Chronic Diseases**

Alex Montiel Ishino, Ph.D., MPH, NIEHS

### **Defining the Role of Paxbp1 in CD4+ T Cell Differentiation**

Danielle Chisolm, Ph.D., NIAMS

### **Closing Remarks**

## **11:30 a.m. – 1:00 p.m. Poster Session II, FAES Terrace**

Cell Biology, Chemical Biology, Chromosome Biology, Computational Biology, Genetics & Genomics, RNA Biology

## **1:00 p.m. – 3:00 p.m. NIH Staff Clinician Mini-Symposium, Lipsett**

### **The NIH and the Role and Impact of the Staff Clinician: From Clinical Trainee to Staff Clinician to Senior Clinician**

Kamille West-Mitchell, M.D., Chair of the NIH Staff Clinician Council

### **Our Patients and the Patient Experience**

Research protocol patient of the Sickle Cell HSCT program

### **Hematopoietic Cell Transplant in Sickle Cell Disease**

Emily Limerick, M.D., Assistant Research Physician, Cellular and Molecular Therapeutics Branch, NHLBI

### **Staff Clinician and Clinical Trials: Phase 1 Double-Blind Randomized Safety Trial of the Janus kinase Inhibitor Tofacitinib in Systemic Lupus Erythematosus**

Sarfaraz A. Hasni, M.D. M.Sc., Senior Research Physician and Director, Lupus Clinical Research, NIAMS

### **Our Third Pillar: Graduate Medical Education and Physician-Scientist Professional Development**

*Overview of NIH GME and Opportunities As an Educator*

Paneez Khoury, M.D., Chair of the NIH Graduate Medical Education Committee

Joyce Chung, M.D., NIH ACGME Designated Institutional Official

*Fellow Research Presentation: Coming into Resistance: Development of Antimicrobial Resistance in NICU Graduates.*

Rachel Strength, M.D., Adult and Pediatric Infectious Disease Clinical Fellow, NIAID

### **Round table of all speakers**

*Moderator:* Kamille West-Mitchell, M.D., Chair of the NIH Staff Clinician Council

## **1:30 p.m. – 3:00 p.m. Poster Session III, FAES Terrace**

Developmental Biology, Microbiology & Infectious Diseases, Molecular Biology & Biochemistry, Neuroscience

## **3:30 p.m. – 5:00 p.m. Poster Session IV, FAES Terrace**

Cancer Biology, Clinical Research, Molecular Pharmacology, Research Support Services, Social & Behavioral Sciences

# Wednesday, September 10, 2025

All events in Bldg 10. Light refreshments will be served. Food trucks available for lunch, 11 a.m. – 2 p.m.

**10:00 a.m. – 11:00 a.m. Victora A. Harden Lecture in NIH History with John Burklow, Lipsett**  
*'John, We Have an Emergency...' — Pivotal Moments That Helped Shape NIH*

**10:00 a.m. – 2:00 p.m. Vendor Exhibit Show Day 1, South Lobby**

**10:00 a.m. – 2:00 p.m. Virtual Reality Demos, NIH Library Reading Room**

## Concurrent Scientific Workshops

**10:00 a.m. – 3:30 p.m. FAES Classrooms**

### CLASSROOM #1:

**10:00 a.m. – 11:00 a.m. NIH Office of Research on Women's Health: Innovative, Interdisciplinary Research in Women's Midlife Health**

**11:30 a.m. – 12:30 p.m. NIH Laboratory Managers Working Group**

**1:00 p.m. – 3:00 p.m. NCBI: Hands-On Workshop—Practical Strategies for Using SRA Lite and Cloud-Optimized Data Formats**

### CLASSROOM #2:

**10:00 a.m. – 11:00 a.m. NIH All of Us: Exploring Use Cases for the All of Us Research Program with the Cohort Analytics Core**

**11:30 a.m. – 1:00 p.m. NIH Ombuds Office: From Disagreement to Discovery—Navigating Conflict in Science**

**1:30 p.m. – 3:30 p.m. NIH Ombuds Office, OIR & OITE: Informal Authorship Negotiations—Navigating Disputes with Skill and Diplomacy**

### CLASSROOM #3&4:

**10:00 a.m. – 11:30 a.m. Rare Disease Informatics SIG: AI-Driven Strategy Advancing Rare Disease Research**

**12:00 p.m. – 1:30 p.m. Patent Law & Tech Transfer SIG: From Postdoc to Paycheck**

**2:00 p.m. – 3:30 p.m. NCBI: Using the NCBI Toolkit to power comparative genomics**

### CLASSROOM #6:

**10:00 a.m. – 11:00 a.m. Consciousness Research Interest Group: Perception in the Primate Brain**

**11:30 a.m. – 12:30 p.m. NIAID ClinRegs: An Online Resource to Support Regulatory Compliance in International Clinical Research**

**1:00 p.m. – 2:00 p.m. Future state of the Pharmacogenetics Interest Group**

**2:30 p.m. – 3:30 p.m. AANHPI SIG: AANHPI Health Research for Advancing the NIH Mission**

## NIH Library Training Room, Bldg. 10

**1:00 p.m. – 3:00 p.m. 3D Printing Expo at the NIH Library: Learn, Design, and Discover**

**1:00 p.m. – 2:00 p.m. 3D Printing and TinkerCAD Fundamentals, Charles King and Alicia Lillich**  
Learn the basics of 3D printing, explore its applications at NIH, and create your own designs using TinkerCAD in this beginner-friendly workshop.

**2:00 p.m. – 3:00 p.m. Design Considerations for 3D Printing, Jonathan Krynitsky, IDEAS, and Kim Castle, BETA Makerspace, NIBIB**

Staff members from the NIBIB IDEAS and the BETA Center Makerspace will lead a review of 3D printing principles and dive into CAD modeling considerations for 3D printing in scientific research.

**11:30 a.m. – 12:30 p.m.** Anita Roberts Lecture with Kelly Ten Hagen, Ph.D., *Lipsett*

*Mucins and O-glycosylation in Health and Disease*

**1:00 p.m. – 4:00 p.m.** FAES Lecture and 'Meet & Greet' with Elias Zerhouni, M.D., *Lipsett*

Lecture: *Disease Knows No Politics*, 1:00–2:00 p.m.

Meet & Greet: *Reception on FAES Terrace*, 2:00–4:00 p.m.

**3:00 p.m. – 4:00 p.m.** WALS G. Burroughs Mider Lecture with Gisela Storz, Ph.D., *Lipsett*

*A New Universe of Regulatory Microproteins*

## Thursday, September 11, 2025

All events in Bldg 10. Light refreshments will be served. Food trucks available for lunch, 11 a.m. – 2 p.m.

**10:00 a.m. – 11:30 a.m.** AI Workshop: Beginner–A Prompt Engineering Workshop for NIH,

*NIH Library Training Room*

This interactive 1.5-hour workshop introduces participants to prompt engineering for effective AI communication. Through engaging, collaborative activities, attendees will learn to design clear, specific prompts that yield high-quality AI outputs for both technical and administrative tasks. The session will cover foundational AI concepts, common pitfalls, and best practices in prompt design, culminating in a practical template for immediate application. Please bring a laptop or phone to participate.

**10:00 a.m. – 2:00 p.m.** Vendor Exhibit Show Day 2, *South Lobby & FAES Terrace*

### Vendor Workshops Day 1: 10:00 a.m. – 2:45 p.m. *FAES Classrooms*

#### CLASSROOM #3&4:

- 10:00 a.m. – 11:00 a.m.** Bruker Biosensors: Biophysical Characterization of Biologics—From High-Throughput Screening to Cellular-Level Analysis
- 11:15 a.m. – 12:15 p.m.** Digital Science: Uncovering, Curating, and Supporting Research Workflows at NIH—A Hands-on Workshop with Dimensions and Integrated Platforms
- 12:30 p.m. – 1:30 p.m.** Active Motif: Single-Cell Multiome Reveals Differential Epigenetic Profiles for Open Chromatin and Gene Expression Across Tissue Types
- 1:45 p.m. – 2:45 p.m.** CDI Labs: When the Immune Systems Misfires—Leveraging Self-recognition Failures in Autoimmunity

#### CLASSROOM #5:

- 10:00 a.m. – 11:00 a.m.** Illumina: Illumina Single Cell Prep
- 11:15 a.m. – 12:15 p.m.** Element Bio: Leveraging High-Dimensional Multiomic Screens with AVITI24™ to Accelerate Drug Discovery
- 12:30 p.m. – 1:30 p.m.** Eppendorf: Accelerate Your Research—Maximize Cell Harvesting Efficiency with Our Innovative 1.5 L Bottle
- 1:45 p.m. – 2:45 p.m.** Beckman Coulter Life Sciences: Best Practices in Isolating and Characterizing Extracellular Vesicles

#### CLASSROOM #6:

- 10:00 a.m. – 11:00 a.m.** VectorBuilder Inc.: Optimizing Lentiviral Vector Design and Production for Cell and Gene Therapies
- 11:15 a.m. – 12:15 p.m.** MilliporeSigma: Stable Isotopes in Health Research: Using Heavy Labels to Find What Matters
- 12:30 p.m. – 1:30 p.m.** Takara Bio: Next Generation Spatial and Single-Cell Omics from Takara Bio
- 1:45 p.m. – 2:45 p.m.** Dovetail Genomics: Genomic Characterization of Multiple Myeloma Relapse with LinkPrep™ Assay

#### **CLASSROOM #7:**

- 10:00 a.m. – 11:00 a.m.** AAVnerGene: AAV-ShDs: Super High DNA and Efficient Transduction in NHP and Human Models
- 11:15 a.m. – 12:15 p.m.** Transnetyx: Reduction of Animals in Research with Responsible Colony Management
- 12:30 p.m. – 1:30 p.m.** QIAGEN: Digital PCR: Scalable, Fast & Affordable
- 1:45 p.m. – 2:45 p.m.** Cytiva: To Affinity and Beyond! Biacore SPR to Accelerate the Next Generation of Therapeutics

#### **1:00 p.m. – 2:30 p.m. NIH Library AI Workshop: Applied AI in the Cloud—STRIDES, Cloud Lab, and SharePoint Integration, NIH Library Training Room**

This engaging 1.5-hour workshop explores advanced practical application of AI in cloud environments, focusing on the STRIDES initiative, NIH Cloud Lab, and SharePoint integration. Participants will gain valuable insights into leveraging these platforms for AI-driven projects, with a special emphasis on building a SharePoint chatbot. The session will conclude with an interactive Q&A.

## **Friday, September 12, 2025**

*All events in Bldg 10. Light refreshments will be served. Food trucks available for lunch, 11 a.m. – 2 p.m.*

#### **10:00 a.m. – 2:00 p.m. Vendor Exhibit Show Day 3, South Lobby & FAES Terrace**

#### **Vendor Workshops Day 2: 10:00 a.m. – 2:45 p.m. FAES Classrooms**

##### **CLASSROOM #1:**

- 10:00 a.m. – 11:00 a.m.** Transcend Vivoscope Bio-Technology Co., Ltd.: Miniature Multi-Photon Microscopy for High-Resolution In Vivo Imaging in Freely Moving Animals
- 12:30 p.m. – 1:30 p.m.** Sartorius: Novel Insights with Live Cell Analysis of Complex, Multi-Cellular 3D Models at Scale
- 1:45 p.m. – 2:45 p.m.** DLH, LLC: Geospatial for Everyone: Enhancing Your “Non-spatial” Research with Geospatial Data

##### **CLASSROOM #2:**

- 10:00 a.m. – 11:00 a.m.** Biocytogen: From Bench to Breakthrough—Humanized Mouse Models for Translational Discovery
- 11:15 a.m. – 12:15 p.m.** Inventia Scientific Corporation—Phenotypic, reproducible 3D cell models
- 12:30 p.m. – 1:30 p.m.** Hologic Diagenode: Validation of a Cancer Early-Detection Assay on Liquid Biopsies using DNA Methylation

##### **CLASSROOM #3&4:**

- 10:00 a.m. – 11:00 a.m.** Roche Sequencing and Life Science: Sequencing by Expansion (SBX), a Versatile, High-Throughput Single-Molecule Sequencing Technology for a Variety of Applications
- 11:15 a.m. – 12:15 p.m.** Biolegend/Revvity: Bright Solutions—Integrating Spark PLUS™ and StarBright™ Dyes into a 39-color Immune Checkpoint Panel
- 12:30 p.m. – 1:30 p.m.** ACROBiosystems: An Integrated Recombinant Protein and Scalable Cell Manufacturing Platform to Enable Translation of Immune Cell Therapies
- 1:45 p.m. – 2:45 p.m.** AllSci: Transforming Research Discovery—AI-Enhanced Insights, Connections, and Collaboration in Biomedicine

# Technical Vendor Association (TVA) Research Festival Vendor Show

The Technical Vendor Association (TVA) has grown from a group of vendors with more than 30 years of cumulative sales experience. Networking has been the key to their career success. As a national organization, the TVA is dedicated to the advancement and recognition of the technical sales profession. Through a large network, the TVA is committed to fulfilling its mission. The COVID-19 pandemic impacted vendor shows and in-person networking globally. As a result, the TVA is working hard to develop new events. Through TVA activities, members meet colleagues from the technical selling profession, as well as researchers, scientists and technicians. While establishing a network and information base that is vital to continued professional advancement, the TVA offers opportunities to interact with individuals who share interest and commitment to technical selling. The Technical Vendor Association was founded in 2023. For more information, please visit <https://technicalvendor.com>.

## About the NIH Research Festival

The NIH Research Festival is an annual, multi-day event that highlights the scientific discoveries and advances made by scientists in NIH labs and clinics. Started in 1986 as “NIH Research Day,” the Festival provides an opportunity for scientists, including trainees, not only to share their work with their peers at lecture and poster sessions but also to get to know their “neighbors” at the NIH. The event additionally features information tables and workshops to learn about new scientific resources, tools, and techniques, as well as exhibits from more than 100 biotech companies. Thank you for participating in this important venue for networking, collaboration, and getting a glimpse into the future of biomedical research.

## Research Festival Committee

The 2025 NIH Research Festival Committee is chaired by the NIH Office of Intramural Research (OIR) senior staff. Ms. Diana Gomez (OIR) is the Research Festival Coordinator.

Additional support has been provided by the NIH Library, the NIH R&W, and The Technical Vendor Association. Special thanks to David Browne (NIH R&W), Kathleen McGlaughlin (NIH Library), Minoo Shakoury-Elizeh (NIDDK), Angela Stubbs-Diggs (Events Management, ORS), Christopher Wanjek (OIR), and Susan Wong (OIR) for their planning support.



For more information, please visit <http://researchfestival.nih.gov>.  
You can also e-mail us at [researchfest@mail.nih.gov](mailto:researchfest@mail.nih.gov).