

NIH Research Festival

*A Celebration of
Intramural Science*

Image provided by Alasdair Steven (NIAMS)

Join Us for the Annual Showcase of NIH Intramural Research

Plenary Sessions
Concurrent Symposia Sessions
Poster Sessions
Green Events and Green Labs Fair
Special Exhibits on IRP Resources
Virtual Reality at the NIH Library
Vendor Tent Show, and More

researchfestival.nih.gov

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September 13-15, 2017

Building 10 | NIH Bethesda Campus

#ResearchFest



Intramural Research Program
Our Research Changes Lives

General Schedule of Events

All events will be held in NIH Building 10

Light refreshments will be served during poster sessions

DAY 1

10:00 a.m. – 12:00 p.m.

12:00 p.m. – 1:30 p.m.

12:00 p.m. – 2:00 p.m.

12:00 p.m. – 5:00 p.m.

1:30 p.m. – 3:30 p.m.

3:30 p.m. – 5:00 p.m.

3:30 p.m. – 5:00 p.m.

Wednesday, September 13, 2017

Plenary Session I, The BRAIN initiative, Masur Auditorium

Poster Session I, FAES Terrace

NIH Green Labs Fair and Exhibits, South Lobby

Virtual Reality Demonstrations, NIH Library

Concurrent Symposia Session I, locations vary

Poster Session II and IC and Scientific Directors Poster Session, FAES Terrace

Special Exhibits on Resources for Intramural Research, South Lobby

DAY 2

9:30 a.m. – 10:00 a.m.

9:30 a.m. – 3:30 p.m.

10:00 a.m. – 12:00 p.m.

11:30 a.m. – 1:30 p.m.

12:00 p.m. – 1:30 p.m.

12:00 p.m. – 1:30 p.m.

12:00 p.m. – 5:00 p.m.

1:30 p.m. – 3:30 p.m.

Thursday, September 14, 2017

FARE Awards Ceremony, Masur Auditorium

Technical Sales Association (TSA) Exhibit Tent Show, Parking Lot 10H

Plenary Session II, Inflammatory Diseases, Masur Auditorium

R&W “Taste of Bethesda” Lunch, Parking Lot 10H

Poster Session III, FAES Terrace

Special Exhibits on Resources for Intramural Research, South Lobby

Virtual Reality Demonstrations, NIH Library

Concurrent Symposia Session II, locations vary

DAY 3

9:30 a.m. – 2:30 p.m.

10:00 a.m. – 12:00 p.m.

12:15 p.m. – 12:45 p.m.

1:00 p.m. – 2:30 p.m.

1:00 p.m. – 2:30 p.m.

Friday, September 15, 2017

Technical Sales Association (TSA) Exhibit Tent Show, Parking Lot 10H

Plenary Session III, The Cancer Moonshot, Masur Auditorium

Animal Tribute Ceremony, Building 10 South Lawn

Poster Session IV, FAES Terrace

Special Exhibits on Resources for Intramural Research, South Lobby

Day 1

Wednesday, September 13, 2017

10:00 a.m. – 12:00 p.m.

Plenary Session I, The BRAIN Initiative, Masur Auditorium

The BRAIN Initiative (Brain Research through Advancing Innovative Neurotechnologies) was launched in 2013 as a collaborative, public-private research partnership with the goal of facilitating the development and application of innovative technologies to understand brain function. Inspired by the Human Genome Project and born out of a Grand Challenge, the BRAIN Initiative seeks to revolutionize our understanding of the human brain. This session will provide an overview of neuroscience and neurotechnology research directions being pursued within the NIH Intramural Research Program as well as offer a panel discussion that will cover past activities and future directions of this innovative new program.

Moderator: Dietmar Plenz, Ph.D. (NIMH)

- **The BRAIN initiative: from local to global brain activity with single-cell resolution**
Dietmar Plenz, Ph.D. (NIMH)
- **Measuring the latency connectome**
Peter Basser, Ph.D. (NICHD)
- **Population coding in auditory cortex**
Patrick Kanold, Ph.D. (University of Maryland)
- **Panel discussion:**
The BRAIN initiative: progress through interdisciplinary team building in the neurosciences
Speakers and Special Guest Gregory Farber, Ph.D., co-leader, BRAIN Initiative Coordination Team, Director, Office of Technology Development and Coordination, NIMH

12:00 p.m. – 1:30 p.m.

Poster Session I, FAES Terrace

12:00 p.m. – 2:00 p.m.

NIH Green Labs Fair and Exhibits, South Lobby

12:00 p.m. – 5:00 p.m.

Virtual Reality Demonstrations, NIH Library

1:30 p.m. – 3:30 p.m.

Concurrent Symposia Session I

- **Cell-based therapies**, Masur Auditorium
- **Developmental biology**, Lipsett Amphitheater
- **Genotyping and phenotyping**, FAES Classrooms 1-4
- **Neuroscience and compulsive disorders**, FAES Classrooms 6-7

3:30 p.m. – 5:00 p.m.

Poster Session II and IC and Scientific Directors Poster Session, FAES Terrace

3:30 p.m. – 5:00 p.m.

Special Exhibits on Resources for Intramural Research South Lobby

Day 2

Thursday, September 14, 2017

9:30 a.m. – 10:00 a.m.

FARE Awards Ceremony, Masur Auditorium

9:30 a.m. – 3:30 p.m.

Technical Sales Association (TSA) Exhibit Tent Show
Parking Lot 10H

10:00 a.m. – 12:00 p.m.

Plenary Session II, Inflammatory Diseases, Masur Auditorium

As our understanding of innate immune mechanisms and their relationship to adaptive immunity has become clearer, we have grown to appreciate how inflammation lies at the heart of nearly all diseases. We now see that, on many levels, all cells are “immune” cells and that inflammation and metabolism are intrinsically linked, a revolutionary concept that is opening new pathways to cures. This session explores the broad impact of inflammatory mechanisms on a broad range of disorders and their treatment.

Moderator: John J. O’Shea, M.D. (NIAMS)

- **New molecular mechanisms of T cell signaling in the healthy and diseased immune system**
Michael Lenardo, M.D. (NIAID)
- **Is the right flavor of inflammation the key to successful cancer therapy?**
Romina Goldszmid, Ph.D. (NCI-CCR)
- **Targeting the innate immune system to prevent organ damage in systemic autoimmunity**, Mariana Kaplan, M.D. (NIAMS)

11:30 a.m. – 1:30 p.m.

R&W “Taste of Bethesda” Lunch, Parking Lot 10H

12:00 p.m. – 1:30 p.m.

Poster Session III, FAES Terrace

12:00 p.m. – 1:30 p.m.

Special Exhibits on Resources for Intramural Research, South Lobby

12:00 p.m. – 5:00 p.m.

Virtual Reality Demonstrations, NIH Library

1:30 p.m. – 3:30 p.m.

Concurrent Symposia Session II

- **Single-cell analysis: a diversity of biological insights across multiple diseases**, Masur Auditorium
- **Microbiome**, Lipsett Amphitheater
- **RNA biology and therapeutics**, Classrooms 1-4

Day 3

Friday, September 15, 2017

9:30 a.m. – 2:30 p.m.

Technical Sales Association (TSA) Exhibit Tent Show,
Parking Lot 10H

10:00 a.m. – 12:00 p.m.

Plenary Session III, The Cancer Moonshot, Masur Auditorium

The Cancer Moonshot was launched in 2016 with the stated goal of achieving in five years what would otherwise take a decade of cancer research. To identify those areas of cancer research that were poised for acceleration, a Blue Ribbon Panel was convened with representatives from across the cancer continuum. The panel developed a series of recommendations designed to accelerate our understanding of cancer. This session will review those recommendations, describe the extramural programs that are being established, and highlight three of the intramural programs that are being launched as part of the Cancer Moonshot.

Moderator: Dinah Singer, Ph.D. (NCI-CCR)

- **“One- vs two-dose HPV vaccine trial”**
Aimée Kreimer, Ph.D. (NCI-DCEG)
- **“Rare tumor initiative”**
Brigitte Widemann, M.D. (NCI-CCR)
- **“Population screening for cancer predisposition genes (CPGs)”**
Maria Isabel Achatz, M.D., Ph.D. (NCI-DCEG)

12:15 p.m. – 12:45 p.m.

Animal Tribute Ceremony,
Building 10 South Lawn

1:00 p.m. – 2:30 p.m.

Poster Session IV, FAES Terrace

1:00 p.m. – 2:30 p.m.

Special Exhibits on Resources for Intramural Research,
South Lobby

Technical Sales Association (TSA) Research Festival Exhibit Tent Show

Thursday, September 14, 2017 - 9:30 a.m. – 3:30 p.m.

Friday, September 15, 2017 - 9:30 a.m. – 2:30 p.m.

The Technical Sales Association (TSA) sponsors the popular Research Festival Exhibit Tent show. A large group of exhibitors will display state-of-the-art equipment supplies and services from leading regional and national biomedical research suppliers. For more information, please visit: <http://www.gtpmgt.com>. To view a list of confirmed exhibit booths please visit: <http://www.gtpmgt.com/attendees.php?id=4>.



Thank you for attending the 2017 NIH Research Festival and for your support of the NIH Intramural Research Program. We hope you will enjoy sharing and learning about the exciting research taking place on campus.

For more information, please visit: <http://researchfestival.nih.gov>

You can also email us at researchfest@mail.nih.gov.

Follow us on Twitter: [@NIHResearchFest](https://twitter.com/NIHResearchFest)

#ResearchFest

NIH Research Festival Co-Chairs:

Susan Amara, Ph.D., Scientific Director, NIMH

Stephen Chanock, M.D., Scientific Director, NCI-DCEG



Intramural Research Program

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The cover image is a bacteriophage Phi-6 cut open. The protein shell (procapsid) of the bacteriophage Phi-6 is cut open to show the four different types of protein: P1 (blue), P4 (red), P7 (yellow) and P2 (purple).