

19TH ANNUAL

RESPIRATORY DISEASE Young Investigators' Forum

OCTOBER 26-29, 2023



Activity Summary

Final Outcomes Report

Grant ID 76582605

19th Annual Respiratory Disease Young Investigators' Forum

Educational Objectives: Discuss new and emerging areas of respiratory research that offer new inroads to effective therapies and treatment; establish mentoring and collegial relationships to support scientific endeavors and career advancement; evaluate the strengths and weaknesses of peer research presentations; incorporate peer/expert faculty feedback effectively to enhance research presentations; discuss key strategies for career development as a physician-scientist; and describe the comprehensive process for securing grant support for research.

Intended Audience: Pulmonary, allergy and immunology fellows and junior faculty who are beginning their research careers.

Actual Reach: 29 young investigators; 9 expert faculty;
3 research advisors

Format: Three-day live, in-person forum consisting of junior faculty/fellow presentations, expert faculty panel, structured feedback, and mentoring and networking opportunities.

Program Location:
Hotel Clio, Denver Cherry Creek
150 Clayton Lane
Denver, CO 80206

Dates: October 26-29, 2023

Relevant Links: N/A

Outcomes Levels: Moore's Level 1, 2 and 4

Outcomes Planning: Pre-program survey; program evaluation

Summary: The 19th Annual Respiratory Disease Young Investigators' Forum aimed to connect young investigators with expert faculty and peers in the respiratory disease field to improve research methodologies, enhance presentation and communication skills, and stimulate an academic career in respiratory disease and allergy research. The meeting was successfully implemented from October 26-29, 2023, **with 100% of evaluation respondents reporting that they would recommend this program to their colleagues.**

Program Overview

Final Outcomes Report

The 19th Annual Respiratory Disease Young Investigators' Forum, a live independent medical education activity accredited by National Jewish Health (NJH), was held in Denver October 26-29, 2023. The Forum is designed to enable **pulmonary, allergy and immunology fellows and junior faculty** to present their research and interact with expert faculty in order to improve research methodologies and presentation skills; enhance communication in the field of respiratory disease and allergy; develop relationships with faculty mentors; assist in translating laboratory research into useful bedside application; and stimulate an academic career in respiratory disease and allergy research. In its 19th year, the Forum continues to prove to be a valuable and impactful annual event for fellows and junior faculty who are beginning their research careers.

"It was great overall and I'm so happy to have been a part of such an amazing and encouraging community."

- 2023 Young Investigator



Young investigators **Gwenyth Day, MD** and **Daniel Colon Hidalgo, MD** listening to a peer's presentation.



Program Design

Final Outcomes Report

The content of the program was based on basic science and clinical research in the field of respiratory disease submitted by young investigators, who competed for acceptance into the program and then served as the program presenting faculty. The program enabled a diverse group of 29 fellows enrolled in fellowship programs such as allergy, respiratory tract disease, or pulmonary medicine, to present the results of their basic science or clinical research to their peers and an experienced expert faculty panel.

“The feedback provided by the research advisors will help guide my next questions as well as further strengthen my future experimental plans.”

- 2023 Young Investigator

The program consisted of:

- ✓ Personalized feedback and coaching from presentation advisors during rehearsals
- ✓ Clinical and scientific junior faculty presentations
- ✓ Small group discussions and mentoring
- ✓ Networking with peer leaders and expert faculty
- ✓ An expert faculty panel providing real time feedback
- ✓ Expert faculty presentations on career development topics relevant to junior faculty
- ✓ Q&A after each scientific and career development presentation

Learning Objectives

Final Outcomes Report

1. Discuss new and emerging areas of respiratory research that offer new inroads to effective therapies and treatment
2. Establish mentoring and collegial relationships to support scientific endeavors and career advancement
3. Evaluate the strengths and weaknesses of peer research presentations
4. Incorporate peer/expert faculty feedback effectively to enhance research presentations
5. Discuss key strategies for career development as a physician-scientist
6. Describe the comprehensive process for securing grant support for research



Charles Powell, MD, MBA
CEO Mount Sinai-National Jewish
Health Respiratory Institute

Career Development Presentation:
Navigating your Career Path:
Finding a Job and Salary
Negotiations



Young Investigator Awards

Final Outcomes Report

All young investigator presentations were scored by the expert faculty panel. The top three presenting young investigators with the highest scores in both Basic Science and Clinical Research were presented with a plaque and given a monetary award to be used toward future research or to attend a national respiratory meeting such as AAAAI, ATS, or CHEST. The award is provided to the recipient's institution for distribution to the recipient according to policies. The young investigator with the highest evaluation scores from her peers was also recognized with a peer award. To recognize the achievement of the attending fellows, all 29 were presented with a CME certificate indicating participation at the Forum.

Basic Science Research

First Place –
**Eno-Obong
Essien, MD**
(University of
Pennsylvania)



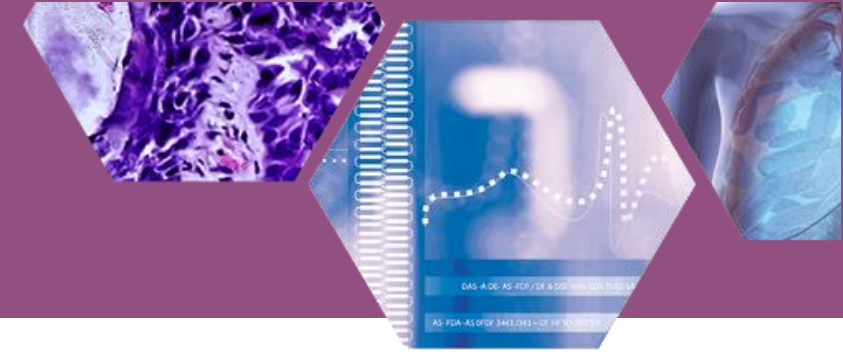
Peer Award
**Marika Orlov,
MD, PhD**
(University of
Colorado)



Clinical Research
First Place –
**Agnes S.
Montgomery, MD**
(Children's National
Hospital)

Young Investigator Awards

Final Outcomes Report



Basic Science Research

Second Place –

Daniel Colon Hidalgo, MD
(University of Colorado)



Clinical Research

Second Place –

Jonathan Rose, MD
(Brigham and Women's Hospital)



Basic Science Research

Third Place –

Matthew McCarra, MD
(Stanford University)



Clinical Research

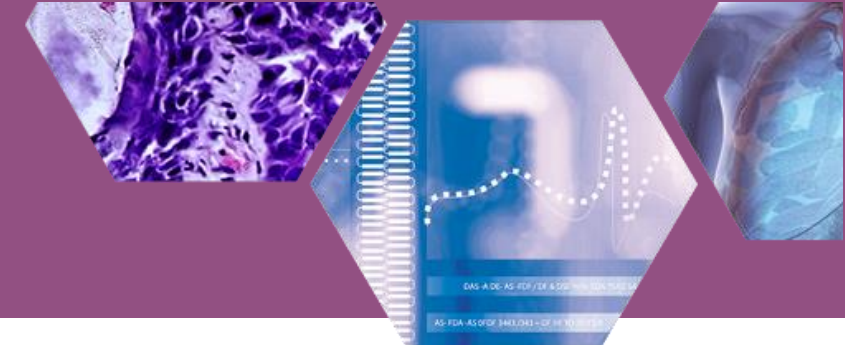
Third Place –

Kristin Berger, MD
(Weill Cornell Medical Center)



Dashboard: Activity Impact

Final Outcomes Report



**32 Abstracts Received /
30 Accepted / 29 Attendees***

*Note: 1 Young Investigator could not make it due to a family emergency

Expert Faculty 9

Research Advisors 3

What is the biggest benefit of participating in the forum?
“Being able to present my research in a warm, encouraging environment.
I'm extremely motivated to continue this work!”
-Young Investigator, 2023

Accepted Investigators

■ Junior Faculty
■ Fellows

6
Faculty

24
Fellows

2nd year: 2
3rd year: 12
4th year: 6
5th year: 4

1st Year
Faculty
Position:
4
2nd Year
Faculty
Position:
2

100%

would
recommend
program to
colleagues

N=14

100%

reported activity
positively
influenced interest

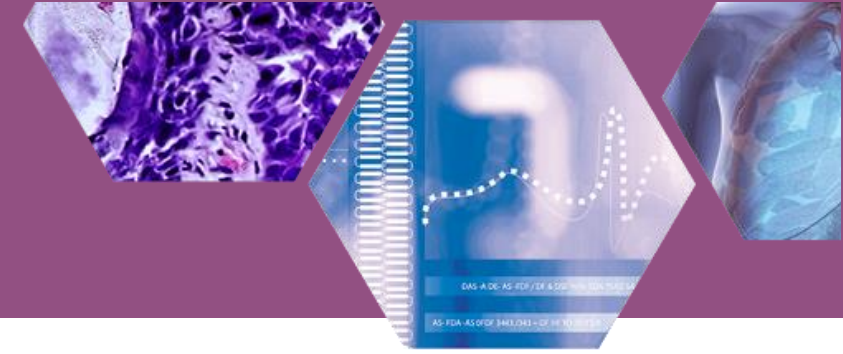
in pursuing a
career as a
physician-
scientist

Research Disease States

- Asthma
- COPD
- COVID-19
- Interstitial Lung Disease
- Lung Cancer
- Obstructive Sleep Apnea
- Pulmonary Fibrosis
- Pulmonary Hypertension
- Sarcoidosis

Program Chair/Expert Faculty

Final Outcomes Report



Jeff Swigris, DO, MS
Professor of Medicine
Center for Interstitial Lung
Disease
National Jewish Health
Denver, Colorado

The 2023 Young Investigator Forum was a huge success, providing early-career researchers an opportunity to present their work in a friendly, engaging, thoughtful and constructive environment. Presentations spanned the research spectrum, from the most basic to purely clinical, with interesting and exciting research on topics ranging from the molecular to the cellular to the organoid, animal, human and even the sun! I am grateful for the opportunity to have served as the Chair of this incredible event.

– Jeff Swigris, DO, MS (Program Co-Chair)

Expert Faculty

Final Outcomes Report



Ronina A. Covar, MD
Professor of Pediatric Allergy and
Immunology Medicine
Associate Co-Director of the Cohen
Family Asthma Institute
Head of Pediatric Clinical
Pharmacology
National Jewish Health
Denver, CO



Ravi Kalhan, MD, MS
Professor of Medicine and Preventive Medicine
Deputy Chief, Division of Pulmonary and Critical Care
Medicine
Northwestern University Feinberg School of Medicine
Chicago, IL

Co-Director, Center for Education and Career
Development
Northwestern University Clinical and Translational
Sciences (NUCATS) Institute



Cori Daines, MD
Professor of Pediatric Pulmonary
Medicine
Division Chief of Pediatric
Pulmonary Medicine
Project Director at Pediatric
Pulmonary Center
University of Arizona
Tucson, AZ



Rohit Katial, MD
Professor of Medicine
Associate Vice President of Education
Director, Center for Clinical Immunology
Irene J & Dr. Abraham E. Goldminz, Chair
in Immunology and Respiratory Medicine
Denver, CO

Expert Faculty

Final Outcomes Report



Janet Lee, MD
Director, Division of Pulmonary and
Critical Care Medicine
Professor of Medicine
Professor of Pathology and
Immunology
Washington University School of
Medicine
St. Louis, MO



Charles Powell, MD, MBA
CEO Mount Sinai-National Jewish Health
Respiratory Institute
System Chief, Division of Pulmonary, Critical
Care & Sleep Medicine
Janice and Coleman Rabin Professor of
Medicine
Icahn School of Medicine at Mount Sinai
New York, NY



Victor E. Ortega, M.D., PhD
Professor of Medicine
Department of Internal Medicine, Division
of Respiratory Medicine
Associate Director, Center for
Individualized Medicine in Arizona
Mayo Clinic
Scottsdale, AZ



Mihaela Teodorescu, MD, MS
Professor of Pulmonary and Critical Care
Division of Allergy, Pulmonary and Critical Care
Medicine
Director, James B. Skatrud Pulmonary/Sleep
Research Laboratory
University of Wisconsin
Madison, WI

Research Advisors

Final Outcomes Report

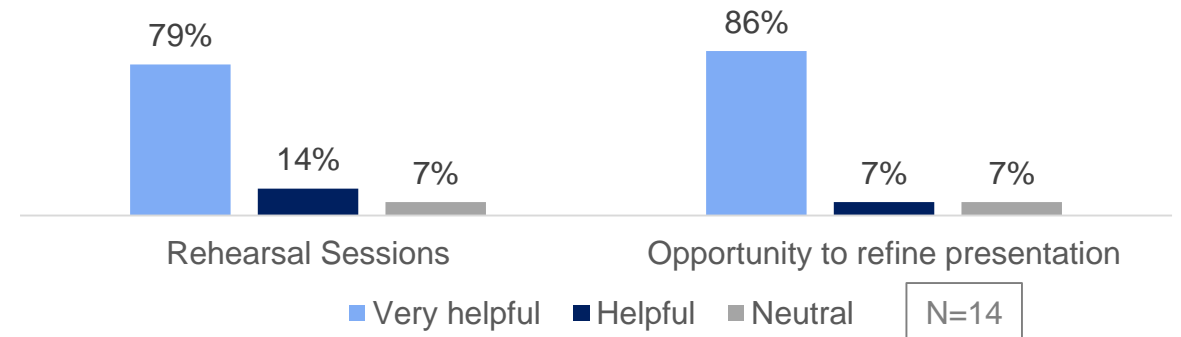


Deepika Polineni, MD, MPH
Associate Professor of Pediatrics, Allergy and
Pulmonary Medicine
Director, Cystic Fibrosis Center
Washington University School of Medicine
St Louis, MO



Mary Beth Scholand, MD
Associate Professor in Pulmonary Medicine
Director, Interstitial Lung Disease Clinic
University of Utah
Salt Lake City, UT

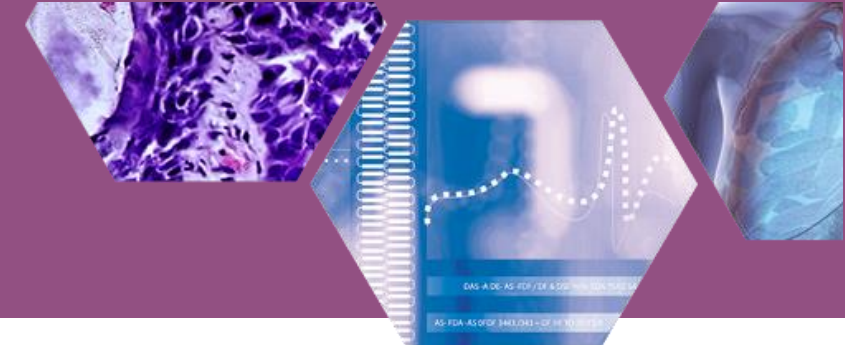
Young Investigators Rate Value of Rehearsal Session and Opportunity to Refine Presentation



Michael Wechsler, MD, MMSc
Director, The Cohen Family
Asthma Institute
Professor
Department of Medicine
Division of Pulmonary, Critical
Care & Sleep Medicine
National Jewish Health
Denver, CO

Young Investigators

Final Outcomes Report



Yorusaliem Abrham, MD (CR) – *University of California, San Francisco*

Effect of a Single One-hour Teaching Session About Environmental Pollutants and Climate Change on the Understanding and Behavioral Choices of Adolescents: The BREATHE Pilot Study

Tina Banzon, MD (CR) – *Boston Children's Hospital*

Biomarkers of oxidative stress associated with radon exposure in the School Inner-City Asthma Study

Kristin Berger, MD (CR) – *New York-Presbyterian/Weill Cornell*

Airway Tree Caliber and Subclinical Interstitial Lung Disease in Community-Dwelling Adults: The Multi-Ethnic Study of Atherosclerosis (MESA)

Gwenyth Day, MD (CR) – *University of Colorado*

An intersectional analysis of sociodemographic disparities in hospital mortality after mechanical ventilation for pneumonia and sepsis

Eno-Obong Essien, MD (BS) – *University of Pennsylvania*

Nanoparticles for lung disease: risks, challenges, and solutions

***(BS) Basic Science**
***(CR) Clinical Research**



Young Investigators

Final Outcomes Report

Courtney Gaberino, MD (CR) – *Indiana University School of Medicine*

Social Determinants of Racial Differences in Treatment and Mortality in Early and Advanced Stage Non-Small Cell Lung Cancer in a Midwest Urban Population

Rage Geringer, MD (CR) – *Creighton University*

Covid-Associated Pulmonary Fibrosis: Subpleural Sparing Distance As A Distinguishing Feature Compared To Non-Covid Nonspecific Interstitial Pneumonia

Miles Hagner, MD (CR) – *University of Iowa*

Role of Airway Epithelial Response Profiles in Sarcoidosis

***(BS) Basic Science**
***(CR) Clinical Research**

Daniel Colon Hidalgo, MD, MPH (BS) – *University of Colorado*

Genetic Variant of EC-SOD Leads to Worsened Pulmonary Hypertension Severity Due to Alterations in Mitochondrial Function

Chad H. Hochberg, MD (CR) – *Johns Hopkins University*

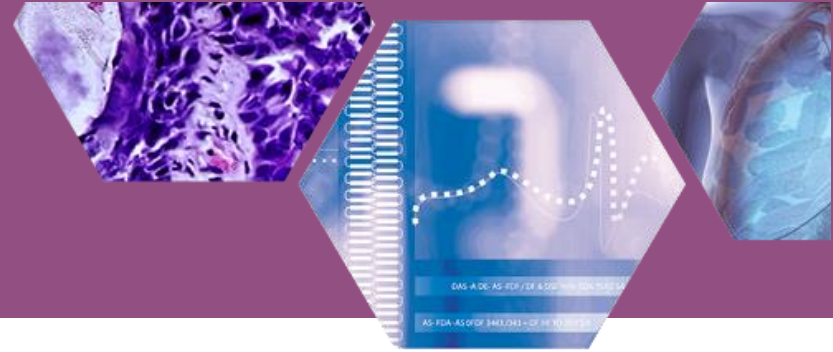
Comparative Effectiveness of Extended versus Standard Duration Prone Positioning for Acute Respiratory Distress Syndrome from Coronavirus Disease 2019

Julia X. Lee, MD (CR) – *Boston Children's Hospital*

Solar and Geomagnetic Activity Impacts Pulmonary Health Outcomes in Children with Asthma

Young Investigators

Final Outcomes Report



Matthew McCarra, MD (BS) – *Stanford University*

TERT Expressing Alveolar Type II Cells As Unipotent Progenitors of the Distal Lung

Matthew McCravy, MD (BS) – *Duke University*

Paraoxonase 2 Mitigates Mitochondrial Oxidative Stress in Airway Epithelial Cells

Syed Moin, MD (CR) – *University of Vermont Medical Center*

Polysomnography-derived Hypoxemic Markers Associated With Pulmonary Hypertension in Obstructive Sleep Apnea

Agnes S. Montgomery, MD (CR) – *Children's National Hospital*

Prematurity and Obstructive Sleep Apnea Risk in Early Childhood: The Role of Early-Life Lower Respiratory Tract Infections

Jeremy Mudd, MD (CR) – *Icahn School of Medicine at Mount Sinai*

Longitudinal Quality of Life Following Sub-lobar Resection and Stereotactic Body Radiation Therapy for Early-Stage Non-Small-Cell Lung Cancer

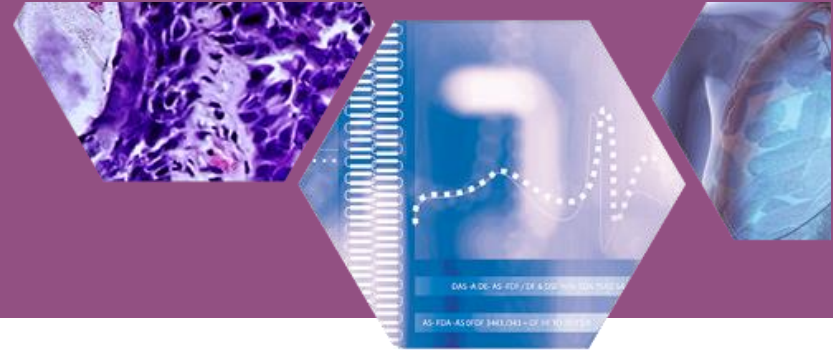
Hiam Naiditch, MD (CR) – *University of Pittsburgh*

Examining Heterogeneity of Treatment Effect in Hospitalized Veterans With COVID-19

***(BS) Basic Science**
***(CR) Clinical Research**

Young Investigators

Final Outcomes Report



Chukwudi Onyemekwu, MD (CR) – *University of Pittsburgh Medical Center*

Novel Sampling Methodology to Identify Metabolites Associated with Delirium in a Sepsis Cohort

Sarah Orfanos, MD (BS) – *Rutgers Robert Wood Johnson Rutgers Institute*

A Novel Target for Idiopathic Pulmonary Fibrosis, A Kinase Anchoring Protein 13, Is Involved in TGF- β -induced Extracellular Matrix Production by Upregulating Phosphorylation of CREB-1 and Total SMAD-3

Marika Orlov, MD, PhD (BS) – *University of Colorado*

Gut Microbiome Contributions to Training Lung Immunity

***(BS) Basic Science**
***(CR) Clinical Research**

Sarah Rhoads, MD (CR) – *University of Colorado*

Asthma Control, Depression, and Insomnia: Defining A Mind-Body Connection

Jonathan Rose, MD (CR) – *Brigham and Womens' Hospital*

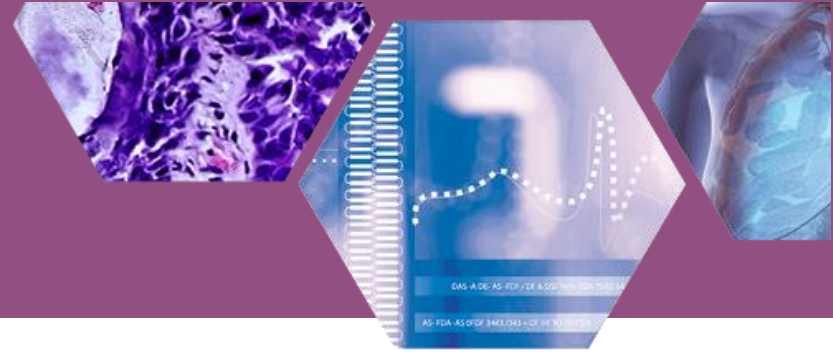
Protein Biomarkers of Interstitial Lung Abnormalities in First-Degree Relatives of Patients with Pulmonary Fibrosis

Lisa Ruvuna, MD (CR) – *University of Colorado*

Proteomic Associations with Lung Function Decline in SPIROMICS, COPDGene and MESA

Young Investigators

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Shayla Saini, MD (CR) – *Mount Sinai Hospital*

Evaluation of Pulmonary Artery Inflammation in Patients with Obstructive Sleep Apnea Before and After CPAP Therapy

Justin Salciccioli, MD (CR) – *Brigham and Womens' Hospital*

Exploring the Relationship between FABP4 and Sputum Microbiome in Asthma: A Novel Insight into Asthma Pathogenesis

Ryan Franklin Sessums, MD (BS) – *University of Virginia Health System*

What Are the Differences in Type 2 Immune Response of Airway Epithelial Cells from Asthmatics vs Airway Epithelial Cells from Non-asthmatics When Infected with Rhinovirus

Andres Villabona-Rueda, MD (BS) – *Johns Hopkins University*

Phagocytic Role of DHX58 During the Resolution of Pneumonia-ARDS in Mice

Jingzhou Zhang, MD (CR) – *Boston University*

Genetic Risk for Body Mass and Mortality in Chronic Obstructive Pulmonary Disease

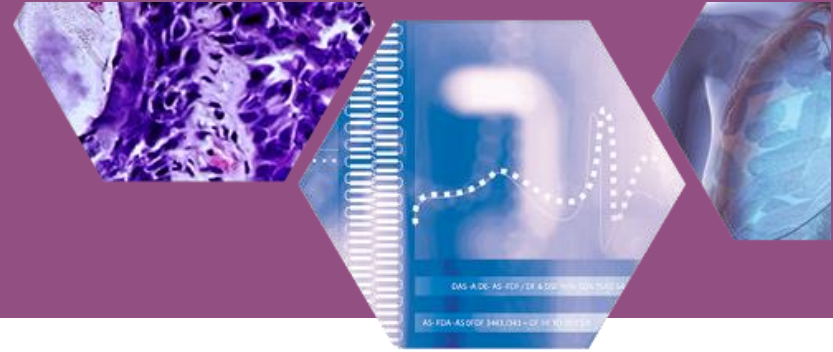
Jane Zielonka, MD (BS) – *Yale University School of Medicine*

Skin Transcriptomics Are Associated with Lung Function Impairment in Systemic Sclerosis-related Interstitial Lung Disease

***(BS) Basic Science**
***(CR) Clinical Research**

Pre to Post Activity Confidence

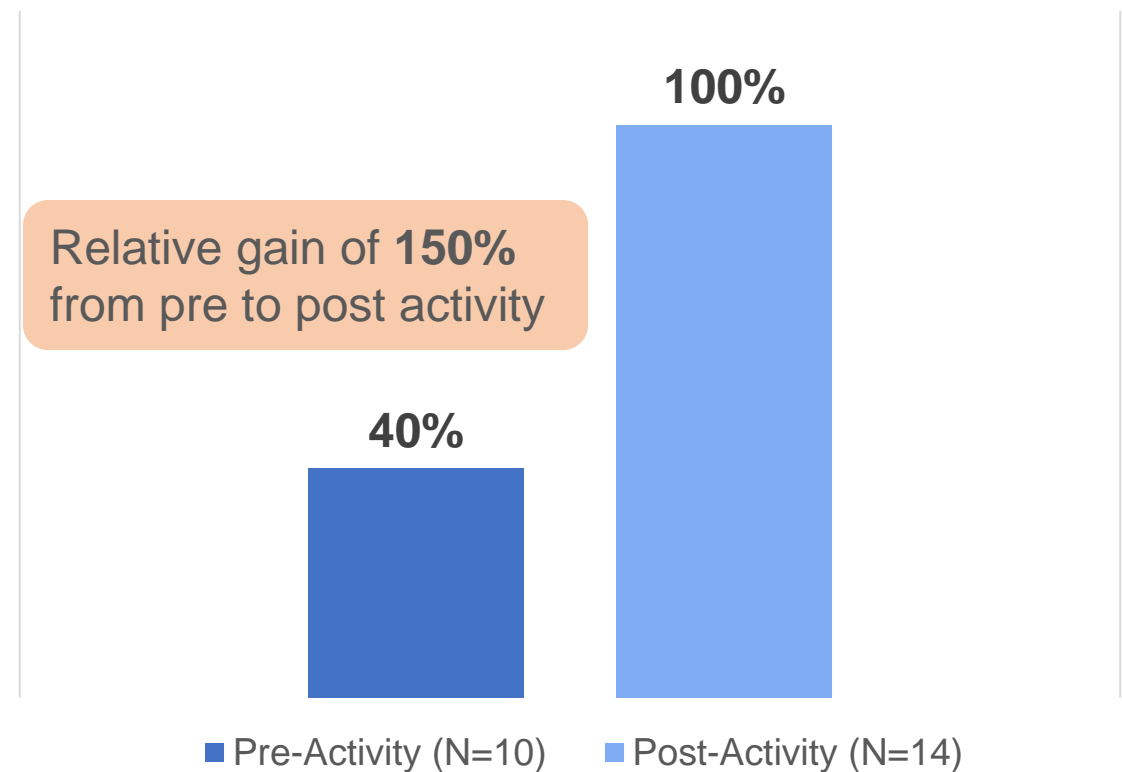
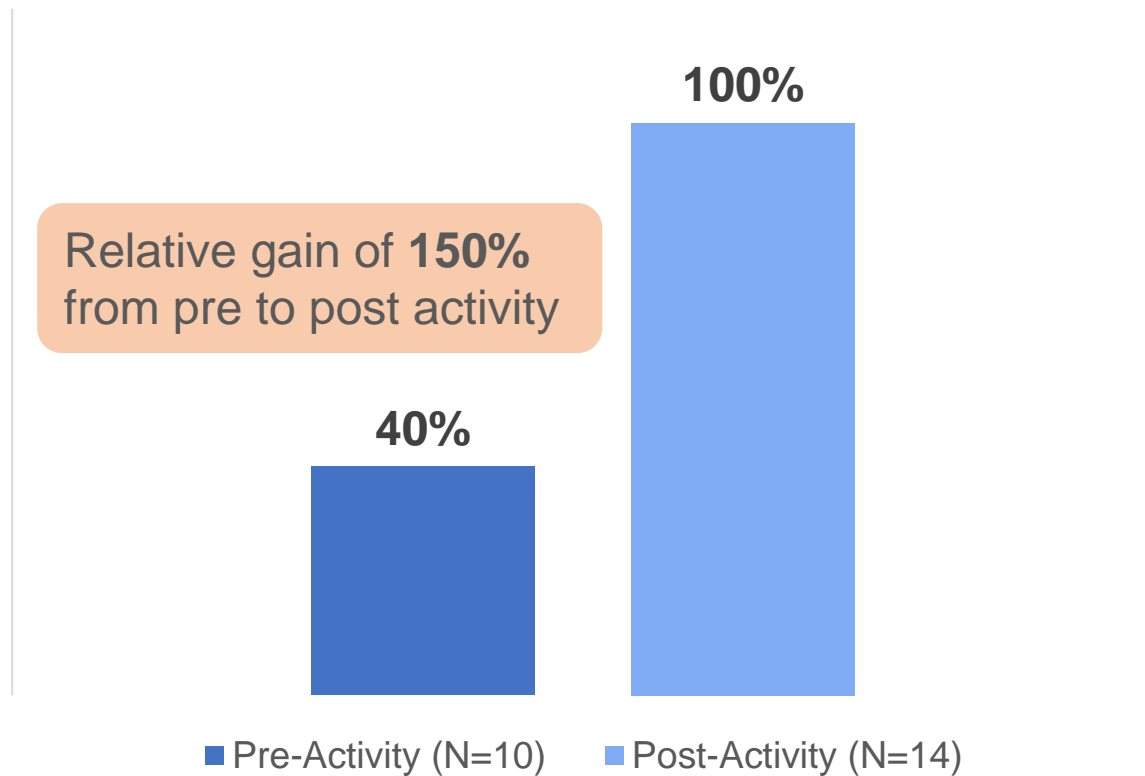
Final Outcomes Report



Young Investigators report being “Somewhat Confident” or “Very Confident” with:

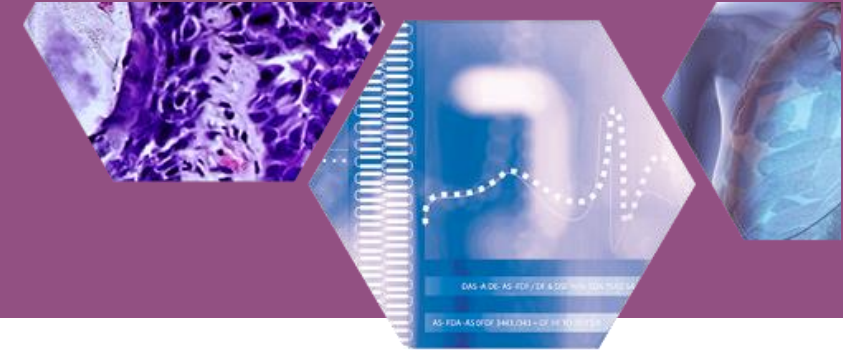
Presenting scientific research to expert faculty

Articulating strengths/weaknesses of my research



Pre to Post Activity Confidence

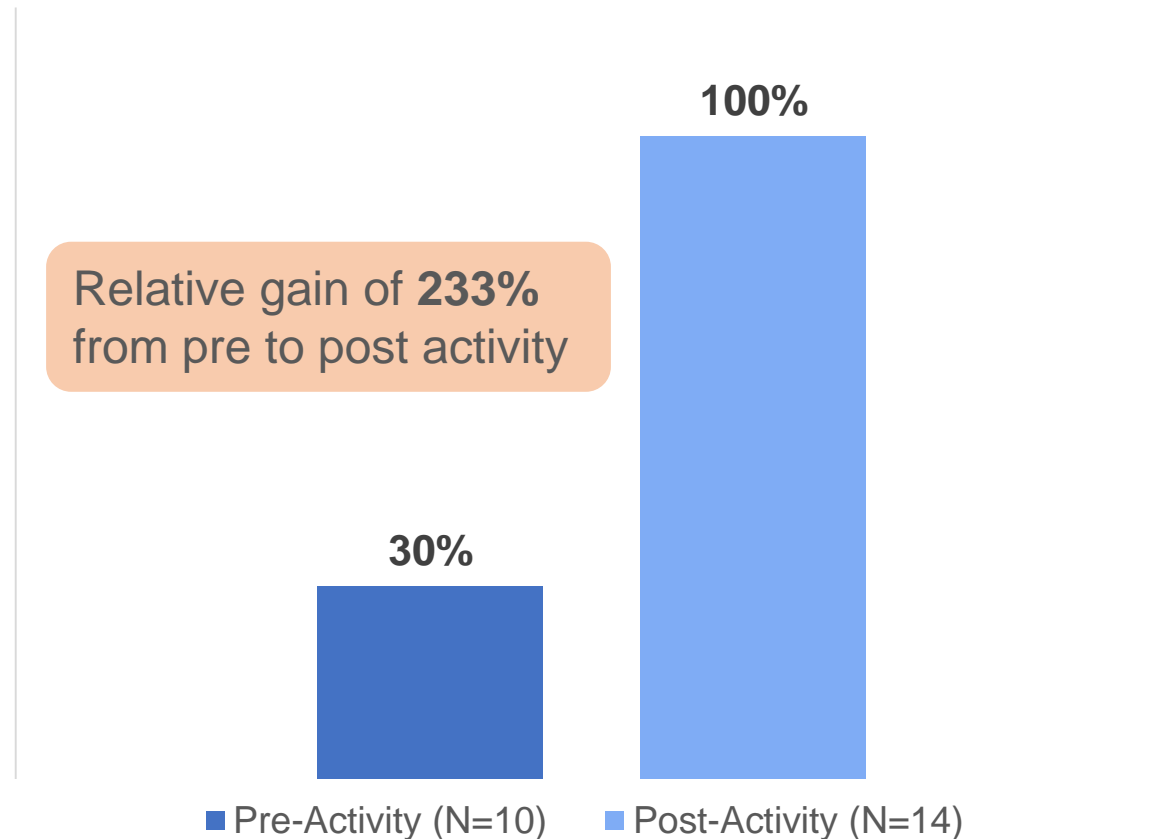
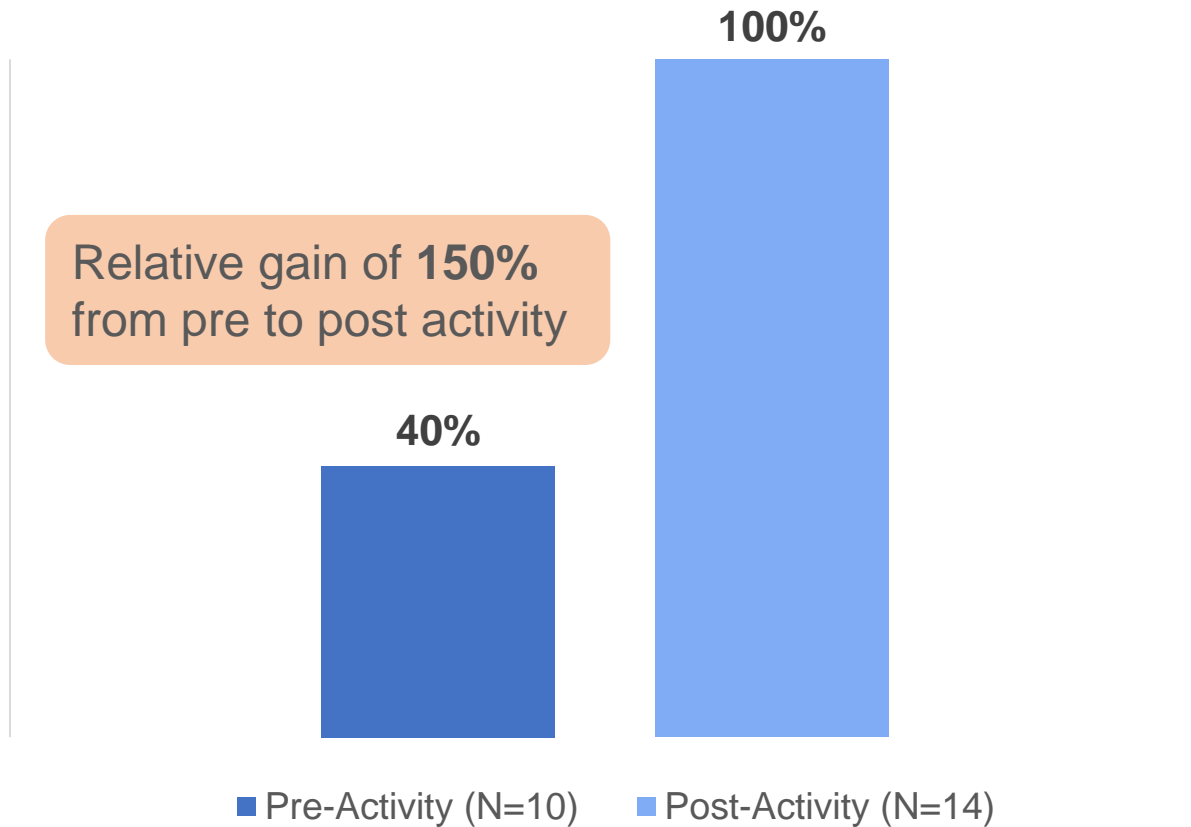
Final Outcomes Report



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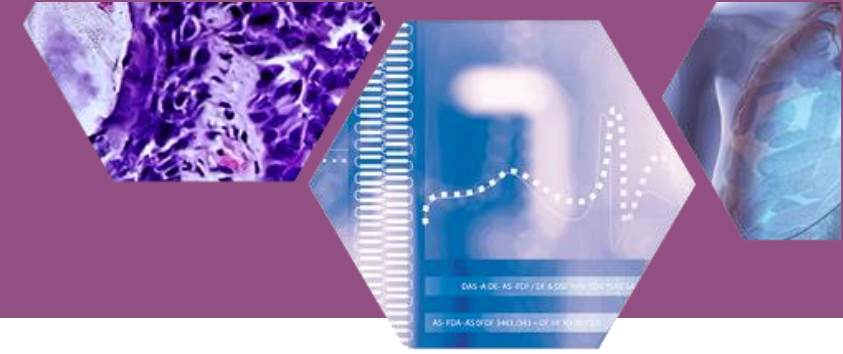
Networking with peer researchers

Seeking input/advice from senior scientists in the field



Pre to Post Activity Confidence

Final Outcomes Report

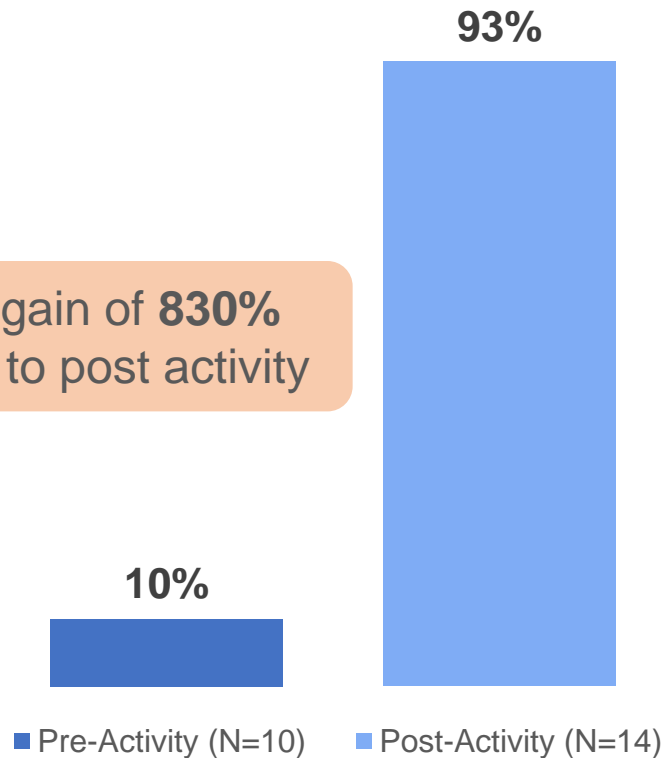


Young Investigators report being “Somewhat Confident” or “Very Confident” with:

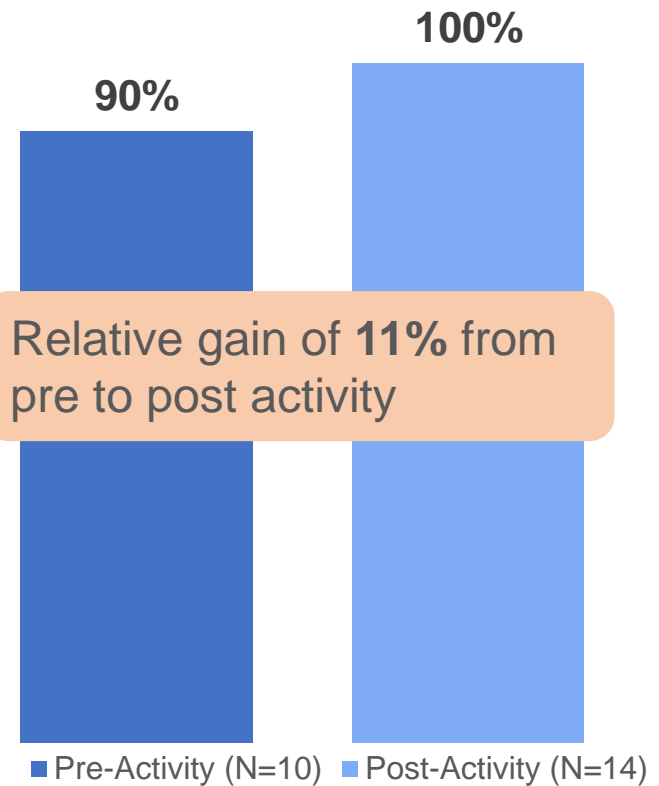
Identifying the process for securing grant support

Incorporating peer/expert feedback to enhance presentations

Relative gain of **830%**
from pre to post activity

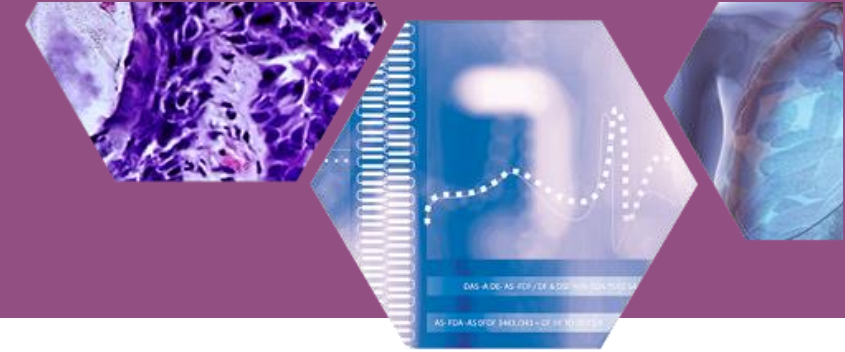


Relative gain of **11%**
from pre to post activity



Evaluation Results

Final Outcomes Report



Young Investigators indicate the extent that the following components helped meet their expectations of the program:

Expert Faculty Questions and Feedback

N=14

79%

21%

0%

0%

Very helpful

Helpful

Neutral

Not helpful

100% felt that expert faculty questions were “**very helpful**” or “**helpful**”

Expert Faculty Lectures

N=14

64%

29%

7%

0%

Very helpful

Helpful

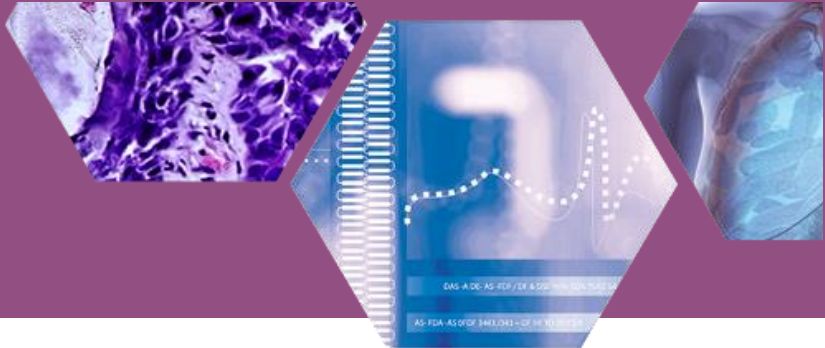
Neutral

Not helpful

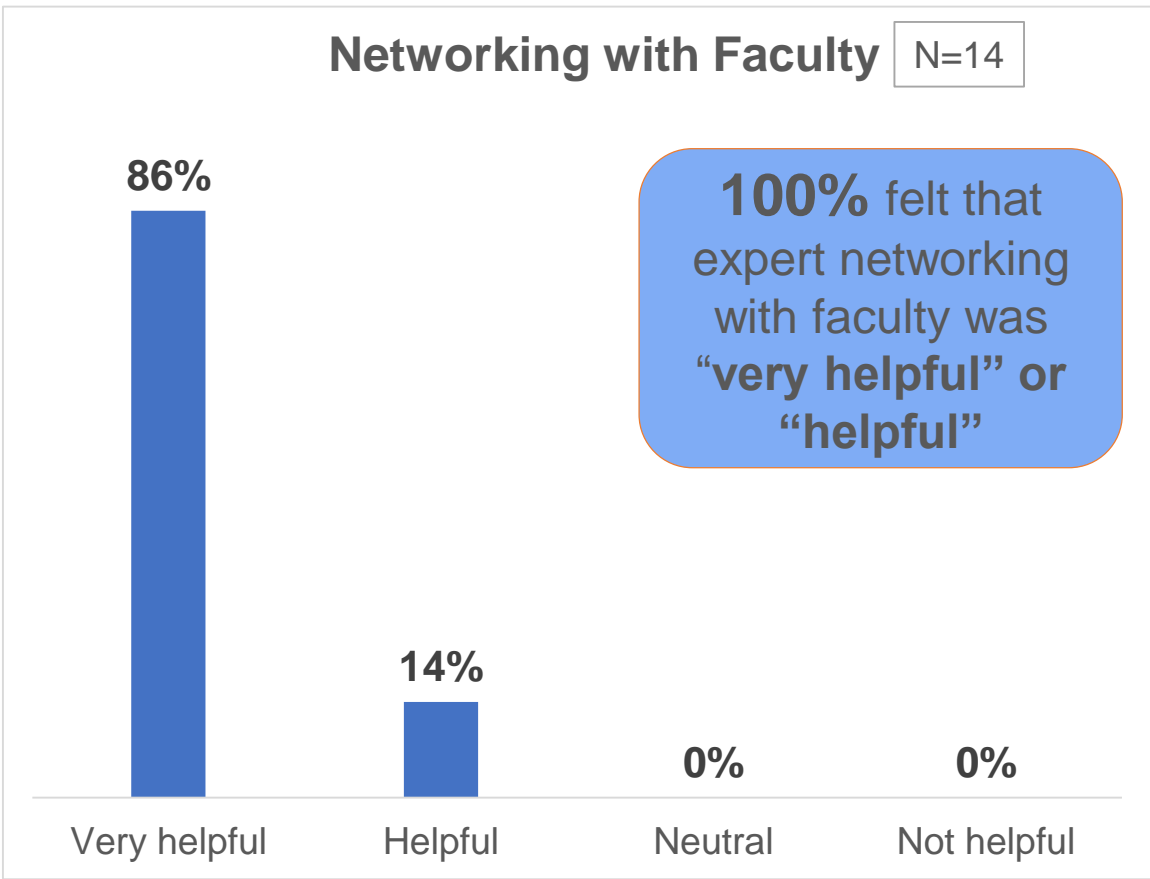
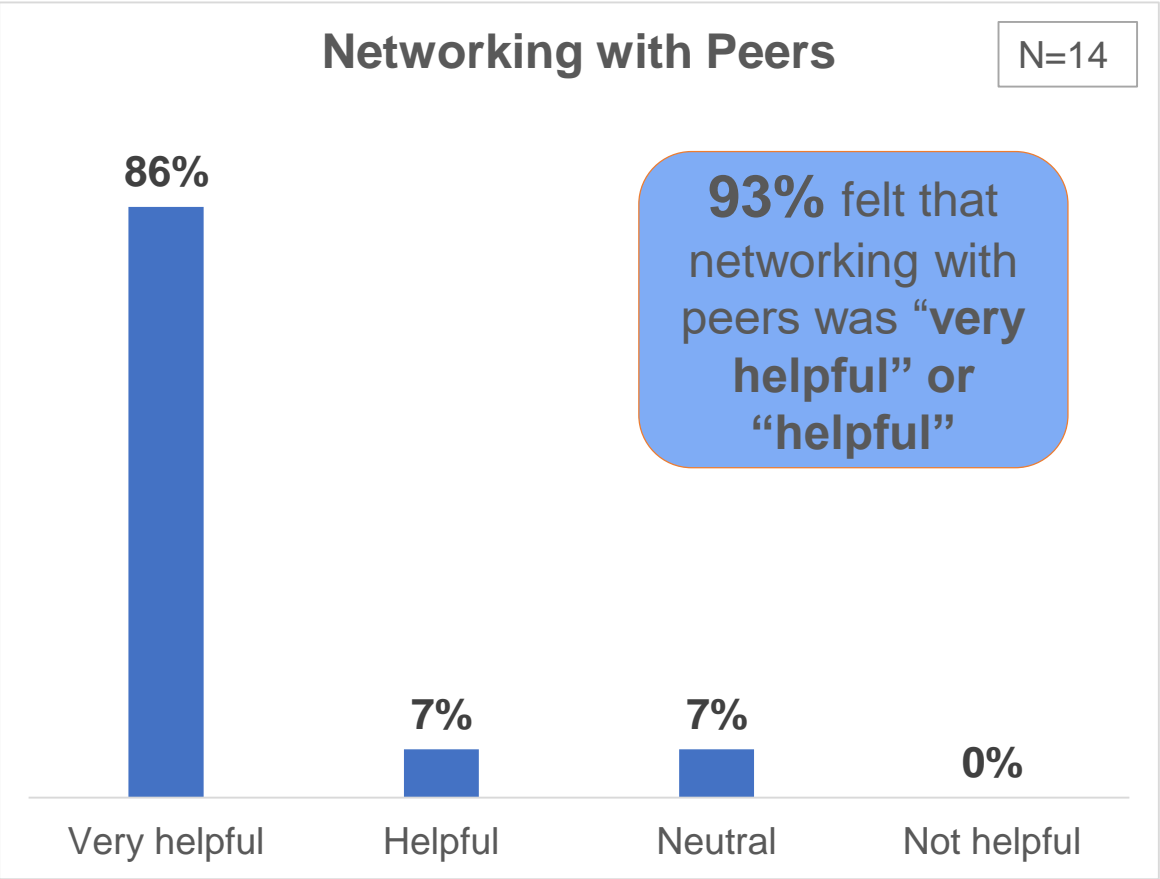
93% felt that expert faculty lectures were “**very helpful**” or “**helpful**”

Evaluation Results

Final Outcomes Report

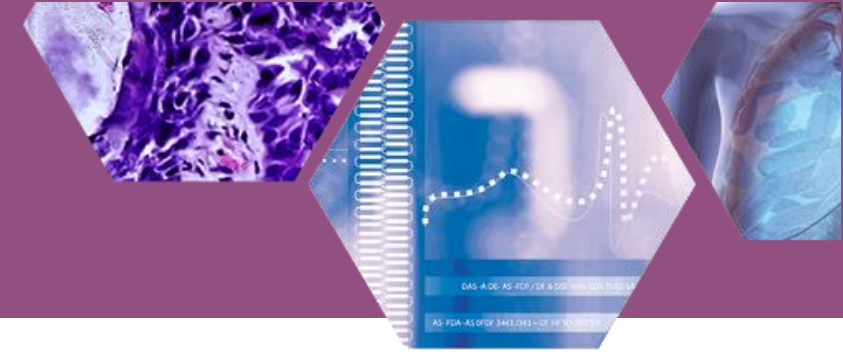


Young investigators indicate the extent that the following components helped meet their expectations of the program:



Evaluation Results

Final Outcomes Report

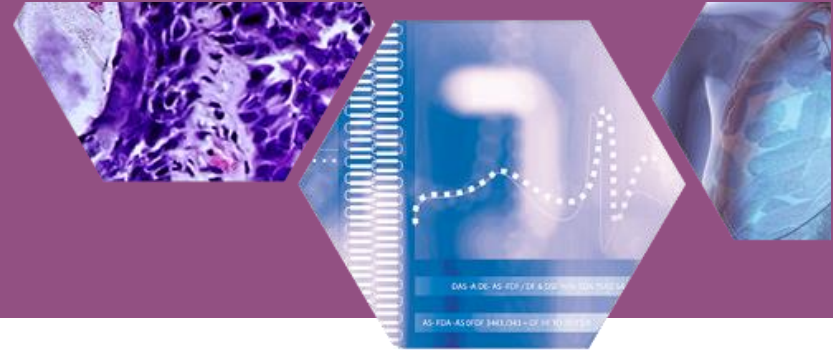


“The Young Investigators' Forum has truly been a highlight of my time in fellowship. Each aspect of the three-day program was thoughtfully designed to facilitate the exchange of valuable feedback and the cultivation of meaningful collaborations between both the distinguished faculty and enthusiastic participants. It was evident that the faculty are all very passionate about their involvement and dedicated ample time to provide insightful and constructive feedback on each participant's research. The intimate size of the conference created an ideal environment to foster productive conversations with individuals I look forward to connecting with in the future. This invaluable experience has solidified my desire to pursue a career as a physician-scientist and I am so grateful for the privilege to have been a part of the YIF!”

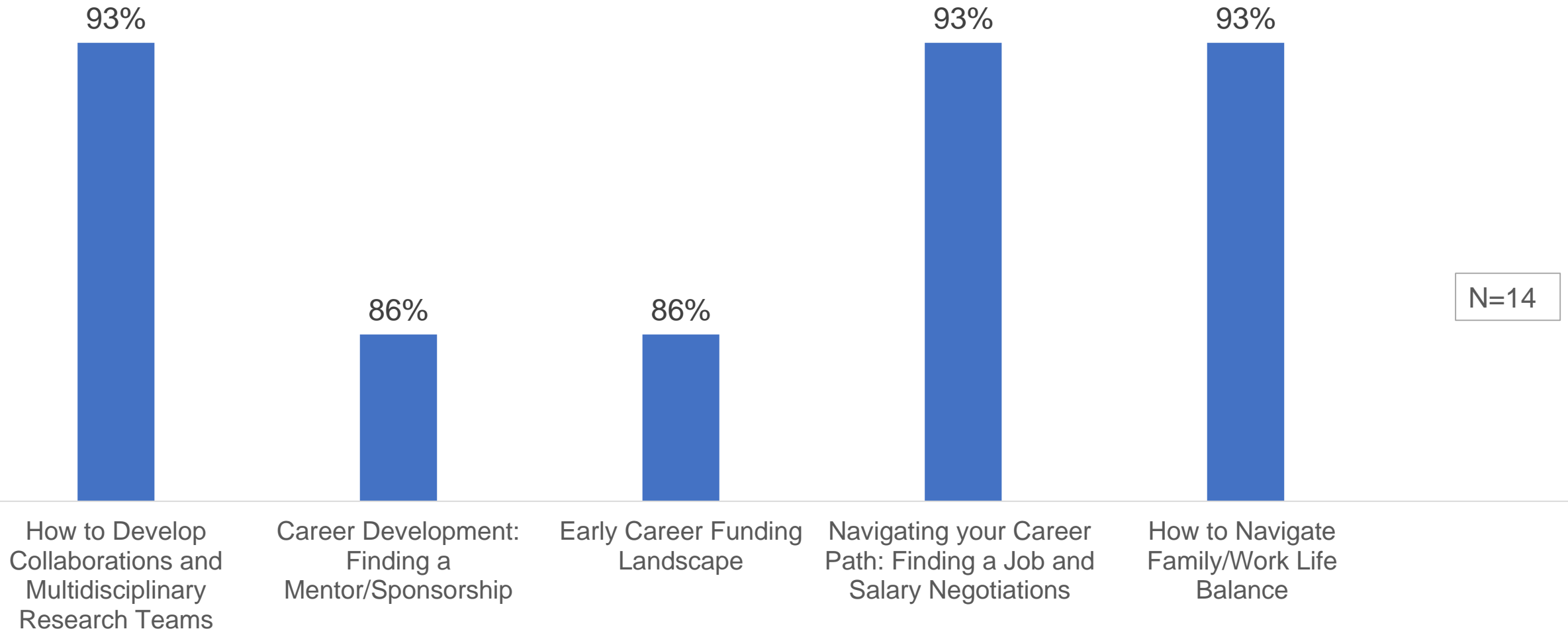
Agnes S. Montgomery, MD
2023 Award Winner

Expert Lecture Evaluation

Final Outcomes Report

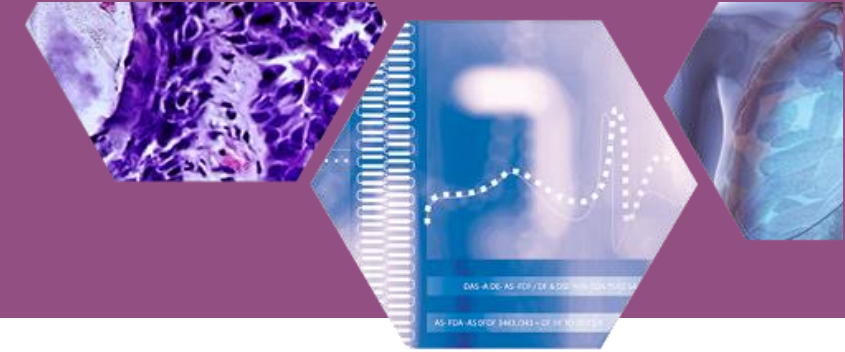


Young Investigators ranked expert faculty topics as “Very Helpful” or “Helpful”:

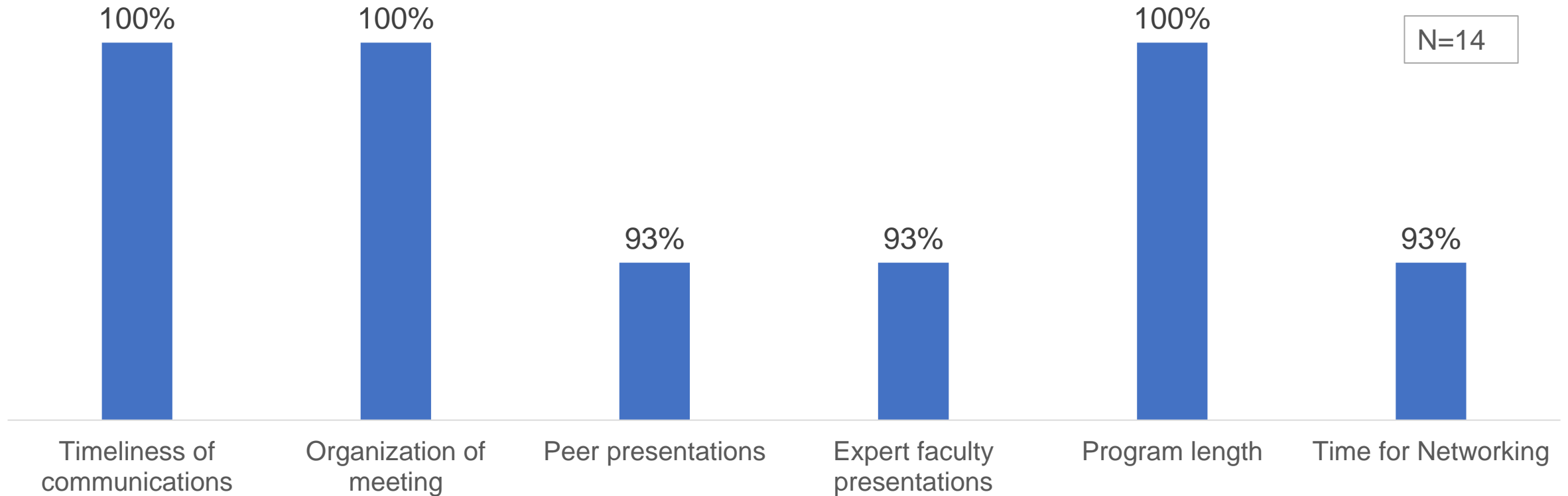


Overall Program Evaluation

Final Outcomes Report



Young Investigators ranked the following program components as “Excellent” or “Good:”



Overall Program Evaluation

Final Outcomes Report

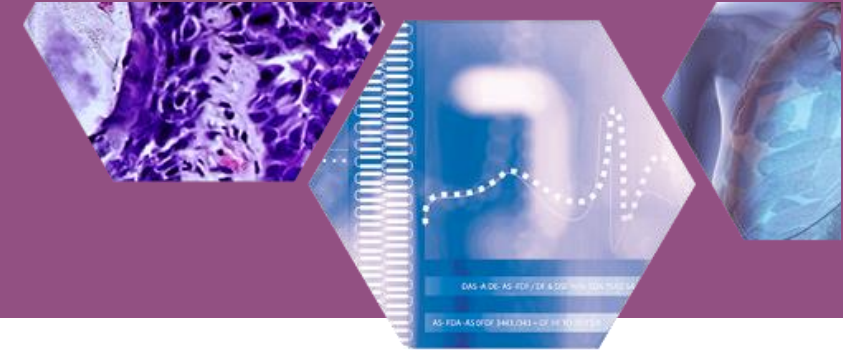
- ✓ **100%** reported that they would **recommend this program to their colleagues**
- ✓ **100%** reported that the **learning objectives** of this activity were met
- ✓ **100%** reported that their **expectations for this forum were met or exceeded**
- ✓ **100%** reported that the **activity positively influenced their interest in pursuing a career as a physician scientist**
- ✓ **93%** reported that, in comparison to other professional development activities attended, **this activity was as helpful or more helpful toward meeting professional goals**
- ✓ **79%** reported they would **modify other abstract submissions based on feedback received during this activity**
- ✓ **100%** reported the material was **presented in an objective manner and free of commercial bias**

"I really enjoyed this conference and hope to be able to attend again!"

- 2023 Young Investigator

Participant Take-Aways

Final Outcomes Report



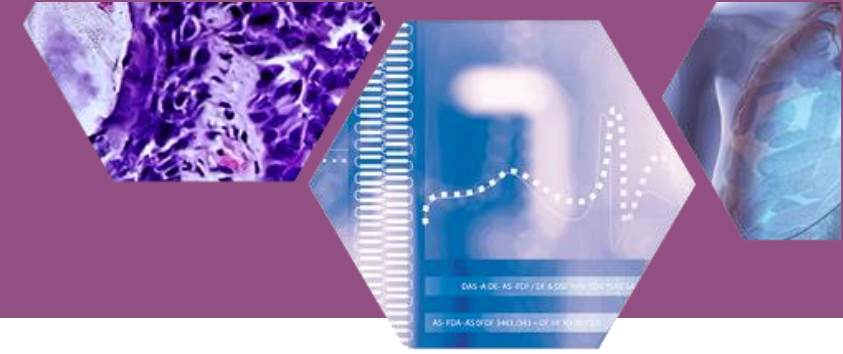
What was the greatest benefit of participating in this activity?

- ✓ Networking with the faculty and peer researchers.
- ✓ Learning how to present research.
- ✓ Learning to talk about research with a broad audience.
- ✓ Having casual conversation with accomplished physician scientists.
- ✓ Meeting other young researchers and learning about all the cool work other people are doing!
- ✓ Networking and additional opportunity to present my work to outside physician-scientists.
- ✓ Built my confidence and taught me a lot about career in science.
- ✓ As a pediatric participant, I was very intimidated at first about the sheer number of adult providers at the event, but I was very nicely surprised at how warmly my pediatric research was received by the adult providers.
- ✓ It was great overall and I'm so happy to have been a part of such an amazing and encouraging community.

Networking was the top benefit of the Forum reported by evaluation respondents

Career Trajectory Changes

Final Outcomes Report



- ✓ I will absolutely continue to pursue a career that incorporates research into my practice.
- ✓ It will definitely encourage me to collaborate a lot more.
- ✓ Knowing more about negotiating and seeing different people's perspectives/seeking out different views was very helpful.
- ✓ More motivated to continue in a physician-scientist pathway.
- ✓ I think having more knowledge about these data makes me want to ask more questions in my clinical practice. It has encouraged me to expand my network in the care of my patients.
- ✓ I definitely feel better equipped!

Accreditation

Final Outcomes Report

National Jewish Health is accredited with Commendation by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The NJH Office of Professional Education produced and accredited this program and adhered to the updated ACCME guidelines.

National Jewish Health designates this live activity for a maximum of 14.0 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

