

2018

FOURTEENTH ANNUAL
Respiratory Disease
Young Investigators' Forum



Outcomes Summary

This activity is supported by an independent educational grant from AstraZeneca Pharmaceuticals LP

2018

**FOURTEENTH ANNUAL
Respiratory Disease
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14th Annual Respiratory Disease Young Investigators' Forum

Educational Objectives: Identify new areas of respiratory research that offer new inroads to effective therapies and treatment; Discuss research study designs that may improve on current approaches to respiratory research; Evaluate strengths and weaknesses of the research presented and incorporate peer/expert feedback effectively to enhance data presentations; Review key strategies for career development as a physician scientist; Describe overall process and important components of securing grants to support research

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

Actual Reach: 30 junior faculty/fellows; 9 expert faculty

Modality/# Activities: Three day live forum consisting of junior faculty/fellow presentations, expert faculty panel, and structured feedback

Program Location: Washington, DC

Dates (Live Activity): October 11-13, 2018

Relevant Links: N/A

Outcomes Levels: Level 1, 2, 3 and 4

Outcomes Planning: Pre-test and post-test; program evaluation

Summary: The 14th 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 11-13, 2018, with **100% of participants reporting that they would recommend this program to their colleagues.**

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Overview

The 14th Annual Respiratory Disease Young Investigators' Forum, a live independent medical education activity accredited by National Jewish Health (NJH), took place October 11-13, 2018 in Washington, DC. 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 14th 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.



[An Inside Look into YIF 2018](#)
Click below to link to video clips:

[Insider Faculty Insight](#)

[Award Ceremony](#)

[Insider YI Insight](#)

[Rehearsals](#)

[Picture Gallery](#)

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Program Design

The content of the program was based on basic science and clinical research in the field of respiratory disease submitted by young investigators, who compete for acceptance into the program and then serve as the program presenting faculty. The program enabled 30 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 an experienced expert faculty panel.

The program consisted of:

- ✓ Personalized feedback and coaching from presentation advisors during rehearsals
- ✓ Clinical and scientific junior faculty presentations
- ✓ One-on-one mentoring
- ✓ Networking with peer leaders and expert faculty
- ✓ An expert faculty panel providing real time feedback
- ✓ Expert faculty presentations on topics relevant to junior faculty
- ✓ Q&A



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Awards

The top presenting three faculty with the best research in both Basic Science and Clinical Research were presented with a plaque and awarded an educational grant to be used toward future research or to attend a national respiratory meeting such as the AAAAI or the ATS. The grant 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 an award. To recognize the achievement of the attending fellows, all 30 were presented with an award certificate indicating participation at the Forum. A CME certificate will also be provided by NJH.

Awards in Basic Science Research

First Place – Jehan Alladina, MD

Second Place – Thu Elizabeth Duong, MD

Third Place – Matthew Camiolo, MD, PhD

Awards in Clinical Research

First Place – Elizabeth Burgener, MD

Second Place – Sarath Raju, MD, MPH

Third Place – David Wu, MD

Peer Award

Jehan Alladina, MD



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Dashboard: Activity Impact



"This was an excellent program that exceeded my expectations in multiple aspects. I will highly recommend this program for future fellows."

-Young Investigator

30
Fellows/
Junior Faculty

9
Expert
Faculty

An icon showing three stylized human figures in green, yellow, and blue, representing a group of people.

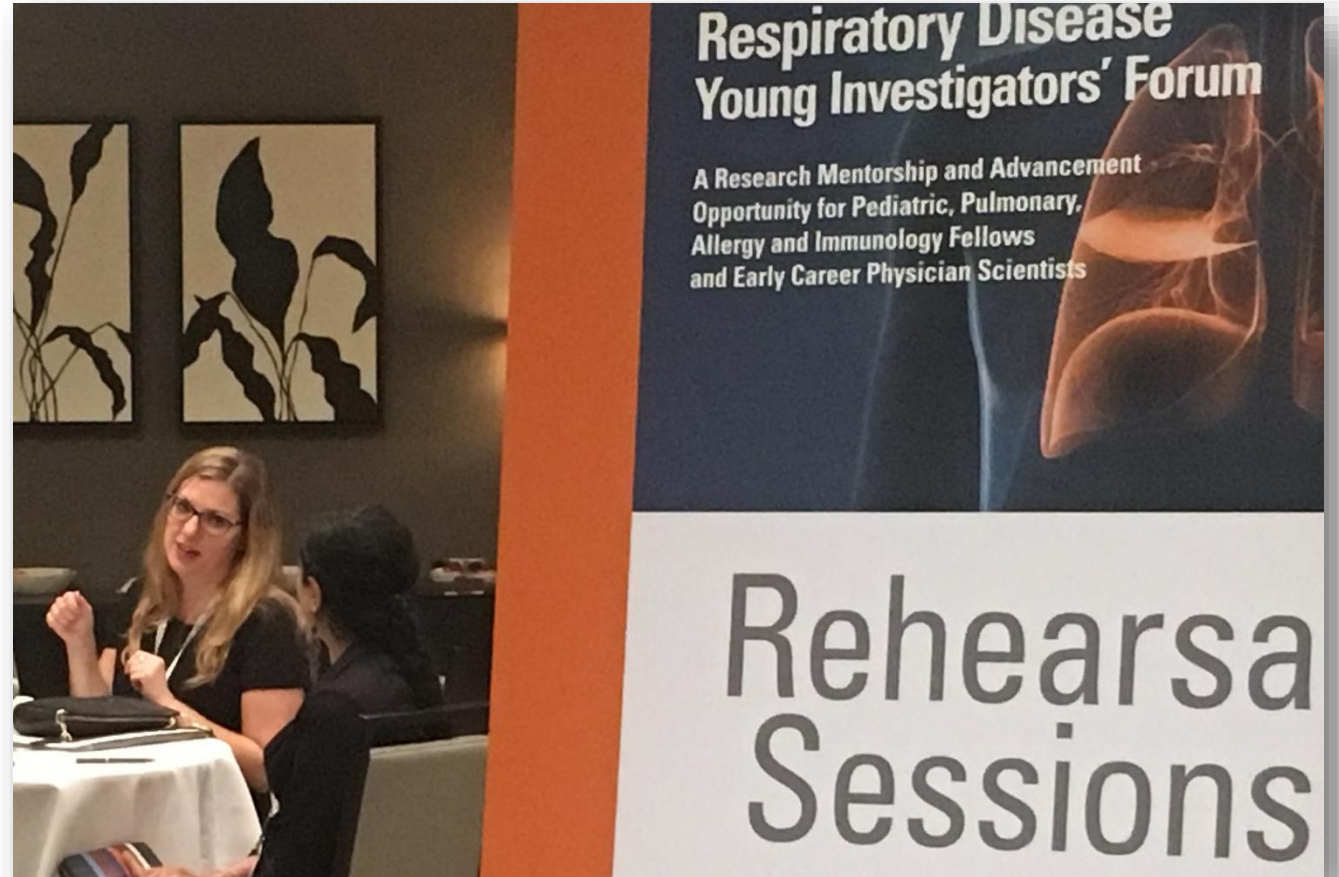
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Learning Objectives

- Identify new areas of respiratory research that offer new inroads to effective therapies and treatment
- Discuss research study designs that may improve on current approaches to respiratory research
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- Review key strategies for career development as a physician scientist
- Describe overall process and important components of securing grants to support research



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Young Investigators

***Jehan Alladina, MD (First Place – Basic Science Research),
Massachusetts General Hospital***

CD141+ Dendritic Cells Distinguish Allergic Asthmatics from Allergic Controls

Aparna Balasubramanian, MD, Johns Hopkins University

The Association Between Right Ventricular Systolic Pressure and Respiratory Morbidity in COPD

Ariane Baldomero, MD, University of Minnesota

The Relationship Between Oral Health and COPD Exacerbations

Christopher Berger, MD, MSIMT, University of California, San Francisco

Comparison of Different Treatments for MDR/Pre-XDR/XDR Tuberculosis: An Individual Patient Data Analysis

Elizabeth Burgener, MD (First Place – Clinical Research), Stanford University

Pf Bacteriophage in Patients with Cystic Fibrosis is Associated with Chronic Pseudomonas aeruginosa Infection and Increased Antibiotic Resistance

Jennifer Bouso, MD, MSPH, Children's Hospital of Philadelphia

In Host Adaptation of Nontuberculous Mycobacteria in Cystic Fibrosis

***Matthew Camiolo, MD, PhD (Third Place – Basic Science Research),
University of Pittsburgh***

Understanding Heterogeneity in Severe Asthmatics Using Machine Learning Analysis of Cellular Phenotypes

Wilfredo De Jesús-Rojas, MD, FAAP, University of Texas Health Science Center

Characterization of Pulmonary Function in Children with Hermansky-Pudlak Syndrome

***Thu Elizabeth Anh Duong, MD (Second Place – Basic Science Research),
University of California San Diego***

Single-cell Chromatin Landscapes and Regulation of Cell Phenotype Alterations in Developing Mouse and Human Lung

Yasaman Eslaamizaad, MD, University of South Alabama

Caspase-1 Contracts the Innate Immune Responses Mediated by Amyloids during Infection in Critically Ill Patients

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Young Investigators

Julie Fierro, MD, MPH, The Children's Hospital of Philadelphia

Bronchopulmonary dysplasia and its effects on medical treatment for asthma in prematurity

Sheetal Gandotra, MD, Wake Forest University

Physical Function Trajectories in Survivors of Acute Respiratory Failure

Marc Gauthier, MD, University of Pittsburgh School of Medicine

CXCL9/10 Elevation in Asthma is Associated with Severe Disease and is Refractory to Corticosteroid Therapy

Christine James, MD, MSc, University of Cincinnati/Cincinnati Children's Hospital Medical Center

HEPA Filtration Improves Asthma Control in Children Exposed to Traffic-related Airborne Pollutants

Hrishikesh Kulkarni, MD, MSCI, Washington University in St Louis

Intracellular C3 protects human airway epithelial cells from oxidative-stress induced cell death

Abigail Koch, MD, Johns Hopkins University

Obstructive Sleep Apnea is Associated with Airway Dimensions in COPD

Van Le, MD, The Ohio State University Wexner Medical Center

IL-13-regulated M2 Polarization during Granuloma Formation in an in vitro Human Sarcoidosis Model

Elinor Lee, MD, University of California, Los Angeles

The Role of Statins in Autoimmune Pulmonary Alveolar Proteinosis

Joshua Levy, MD, MPH, Emory University Hospital Midtown

Dysregulated Endocannabinoid Expression in Aspirin Exacerbated Respiratory Disease: A Novel Source of Epithelial Dysfunction

Shu-Yi Liao, MD, MPH, ScD, University of California-Davis

RNA-Seq Transcriptomics and Time-course Longitudinal Analyses Reveal Potential Pathways Altered During Bronchial Thermoplasty Treatment in Severe Asthmatics

Jacqueline O'Toole, DO, Johns Hopkins University

Impact of Memory Impairment on Chronic Obstructive Pulmonary Disease Outcomes

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Young Investigators

Sarath Raju, MD, MPH (Second Place - Clinical Research), Johns Hopkins University

The Impact of Rural Residence and Poverty on Chronic Obstructive Pulmonary Disease (COPD) Prevalence: A Nationwide Analysis

Joseph Ramzy, MD, Temple University Hospital

Do Demographics, Pattern of Lung Disease, Autoantibodies, or Connective Tissue Disease (CTD) Diagnosis Predict the Response of Connective Tissue Disease Related Interstitial Lung Disease (CTD-ILD) Patients to Mycophenolate Mofetil?

Ruth Siew, MD, University of California San Diego

Bicarbonate Effect on Neutrophil Extracellular Traps in Cystic Fibrosis

Andrew Synn, MD, Beth Israel Deaconess Medical Center

Radiographic Pulmonary Vascular Structure and Measures of Airways Disease in the Framingham Heart Study

MuChun (Joanna) Tsai, MD, Ohio State University

Electronic versus Combustible Cigarette Effects on Inflammasome Release into Bronchoalveolar Lavage Fluid

Omesh Toolsie, MD, BronxCare Health System

Comparison of Outcomes of Patients with Lung Collapse Managed with Bronchoscopy Versus Conservative Approach

Blair Wendlandt, MD, The University of North Carolina at Chapel Hill

The Impact of Provider Support and Communication on Post-Traumatic Stress Disorder Symptoms for Family Caregivers of Patients with Prolonged Mechanical Ventilation

Tianshi David Wu, MD (Third Place – Clinical Research),

Johns Hopkins University

Pre-Diabetes and Diabetes Increase Risk of Asthma Exacerbation in Obese Adults: A Retrospective Cohort Study

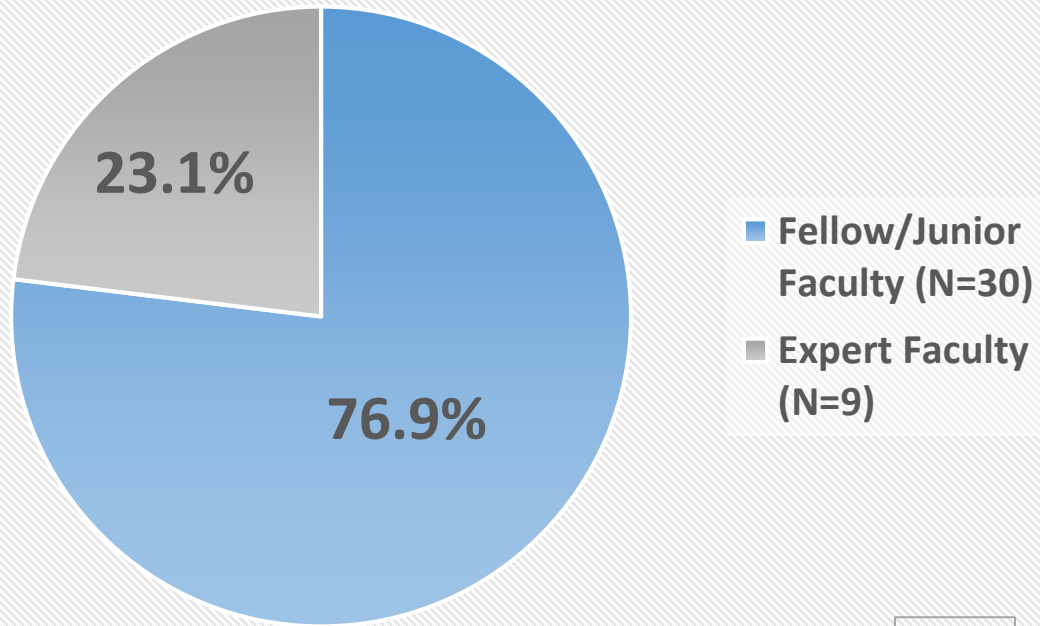
William Zhang, MD, New York Presbyterian Hospital/Weill Cornell Medicine

Abnormal Ferritin Turnover in COPD is Associated with Increased Exacerbation Risk



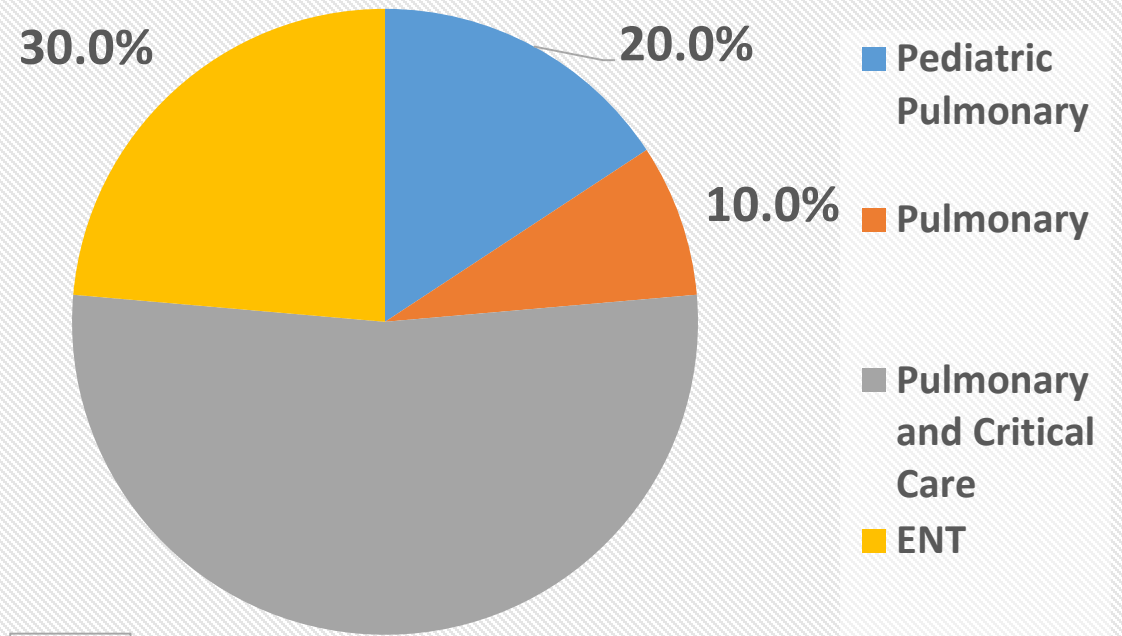
Participation

Expert and Junior Faculty Breakdown



N=39

Junior Faculty Specialties



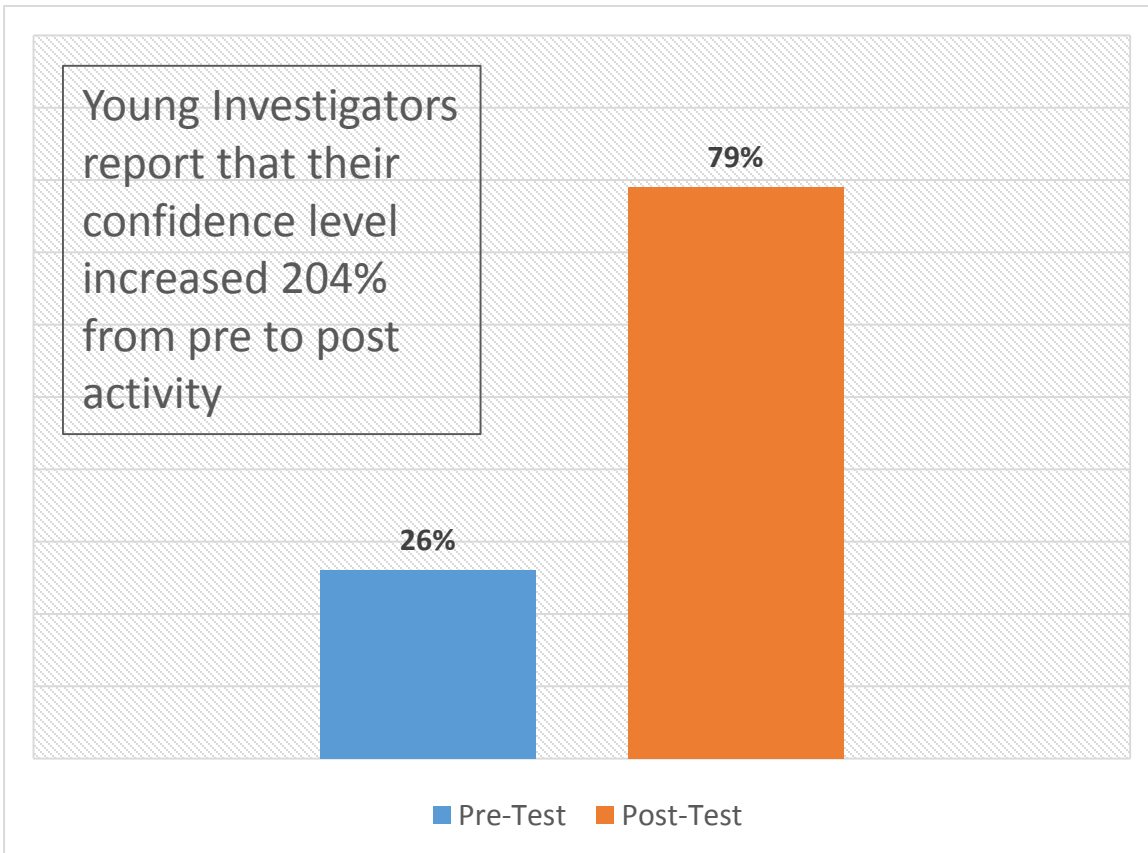
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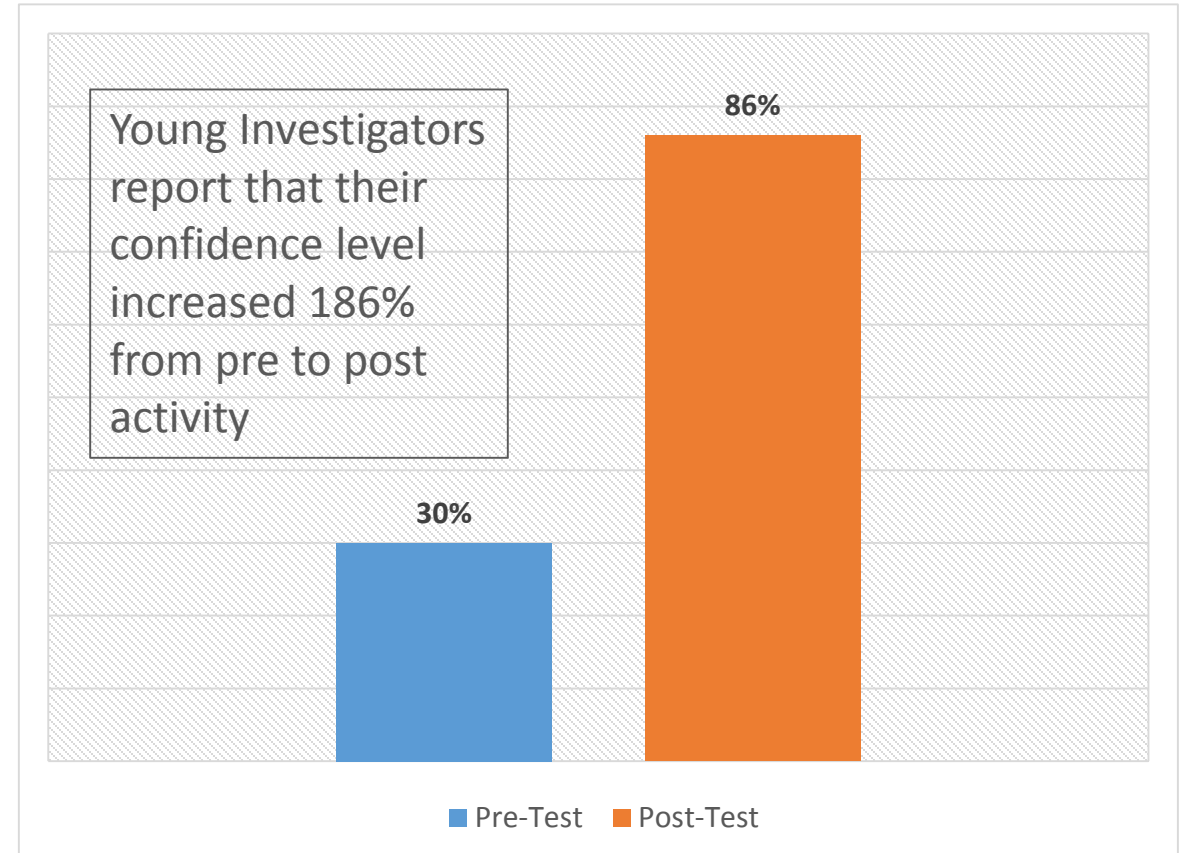
Pre to Post Activity Evaluation

Young Investigators report being “Comfortable” or “Very Comfortable” with:

Presenting scientific research to expert faculty



Confidently articulating strengths/weaknesses of my research

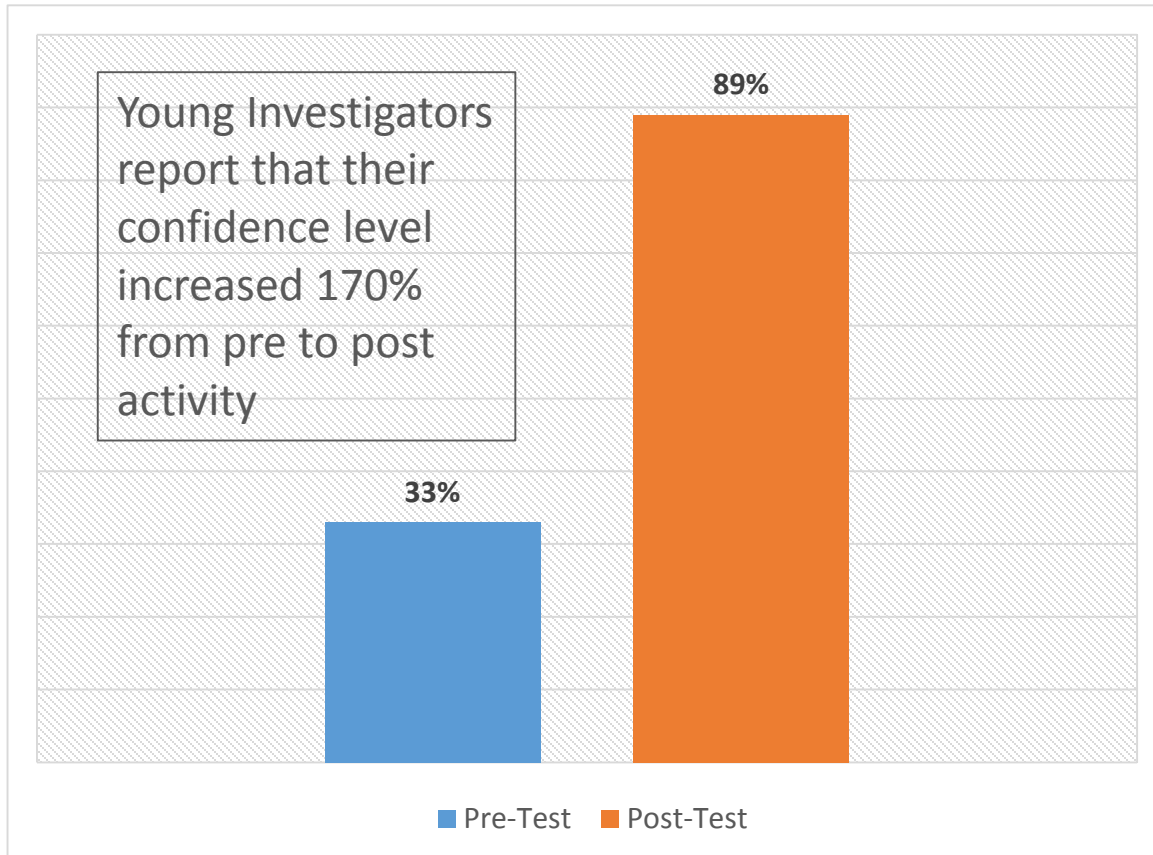




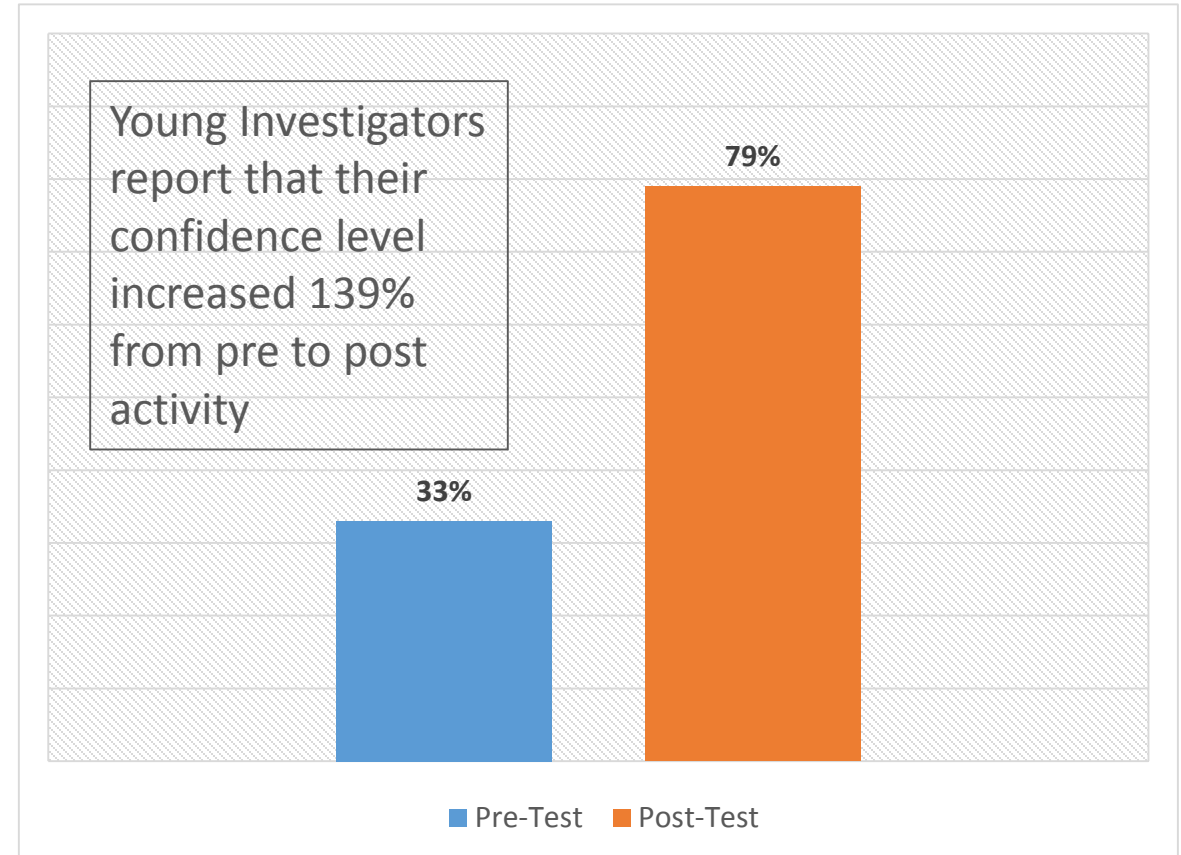
Pre to Post Activity Evaluation

Young Investigators report being “Comfortable” or “Very Comfortable” with:

Networking with Peer Researchers



Seeking input/advice from senior scientists in the field

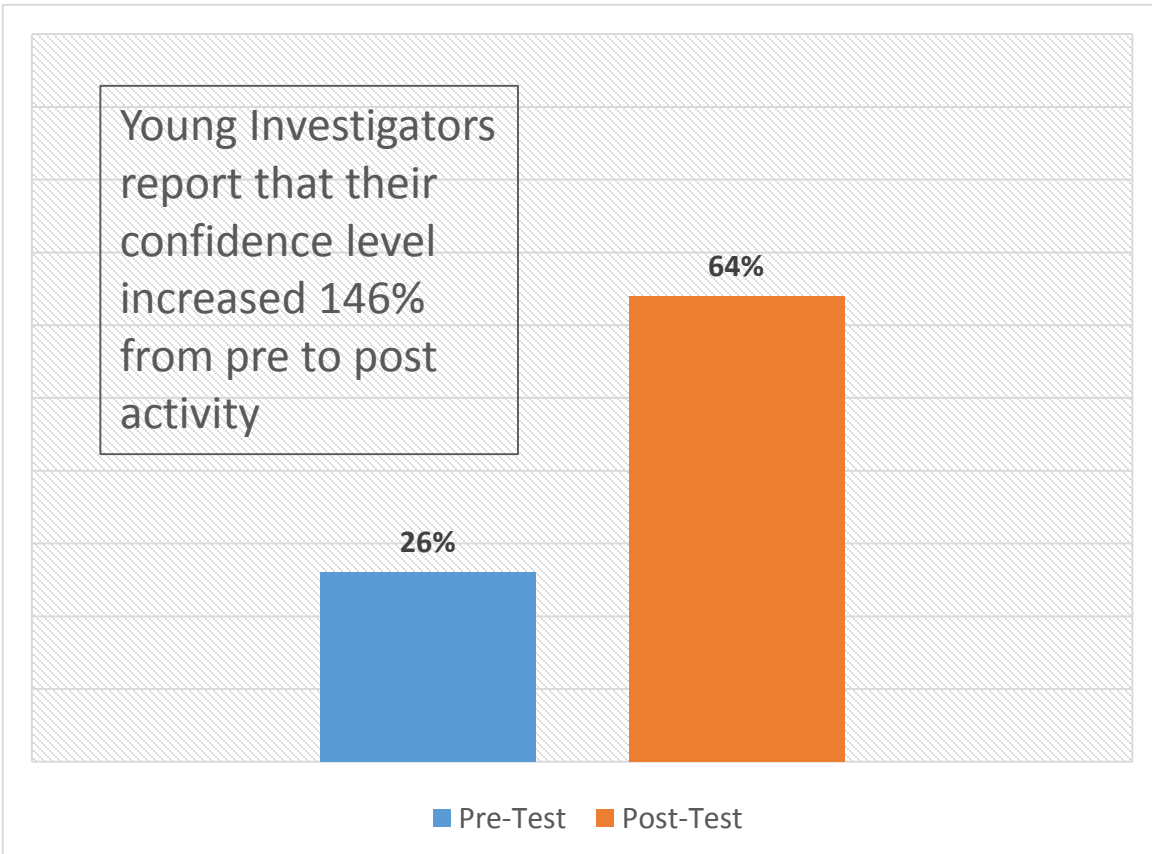




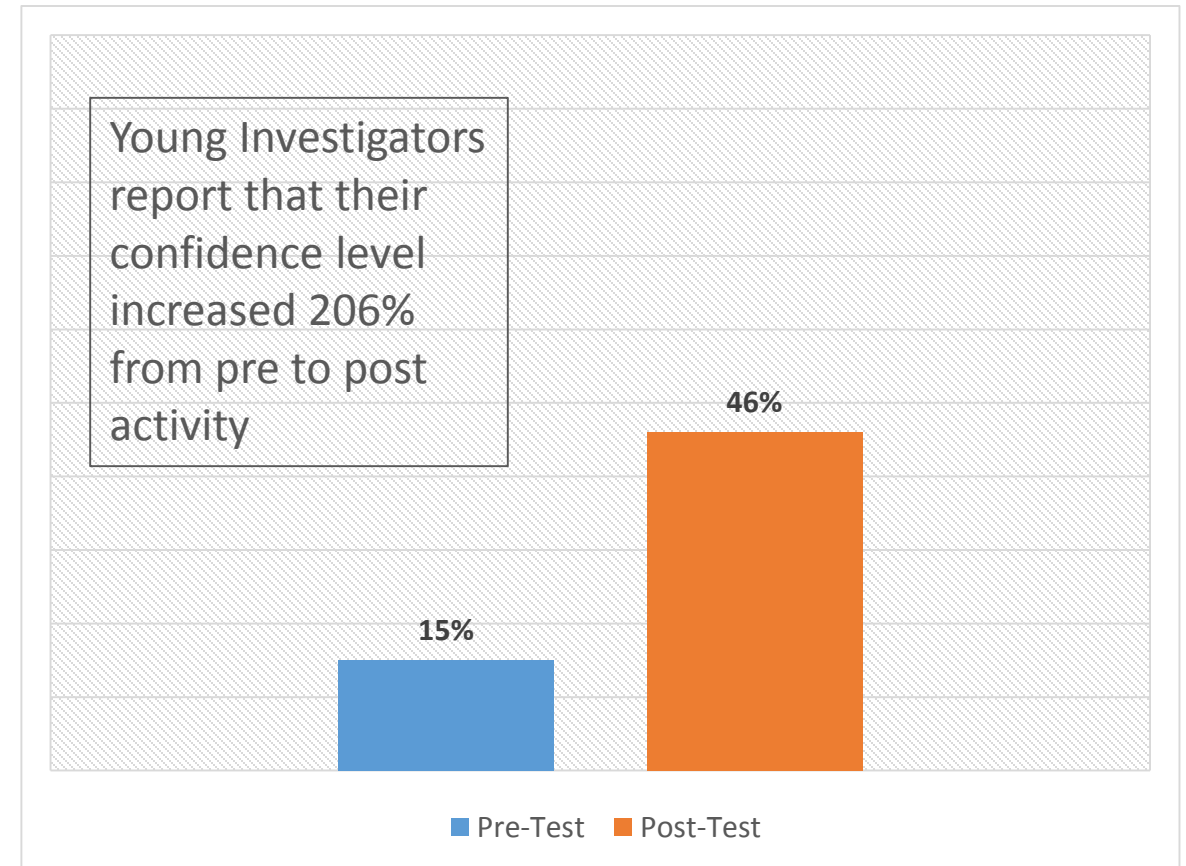
Pre to Post Activity Evaluation

Young Investigators report being “Comfortable” or “Very Comfortable” with:

**Conducting effective respiratory research to
pursue a career in academic medicine**



Preparing, submitting and revising k-award grant applications

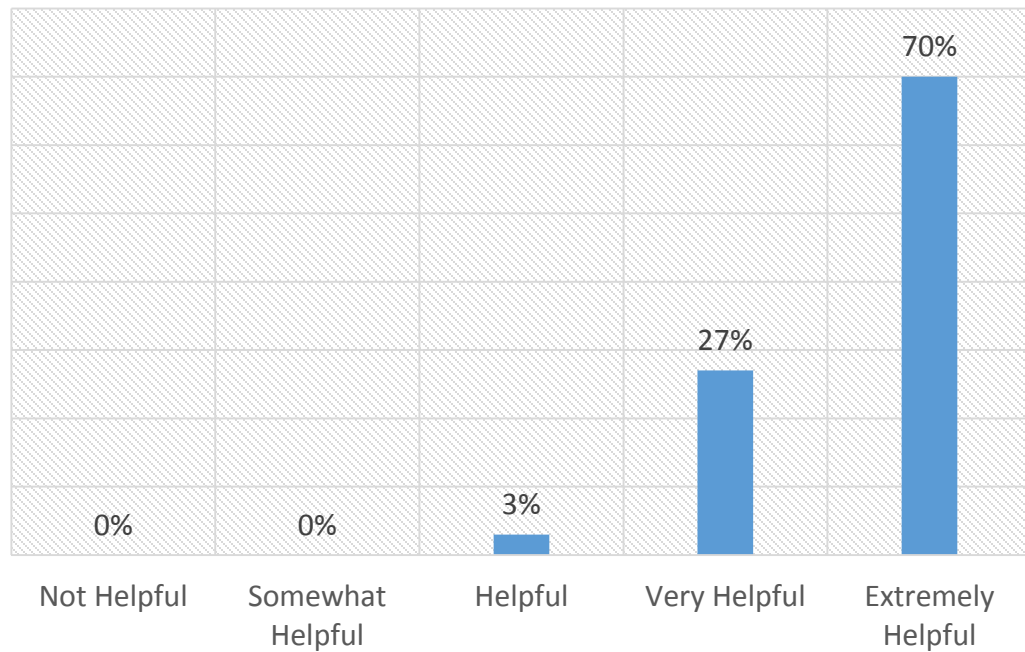




Evaluation

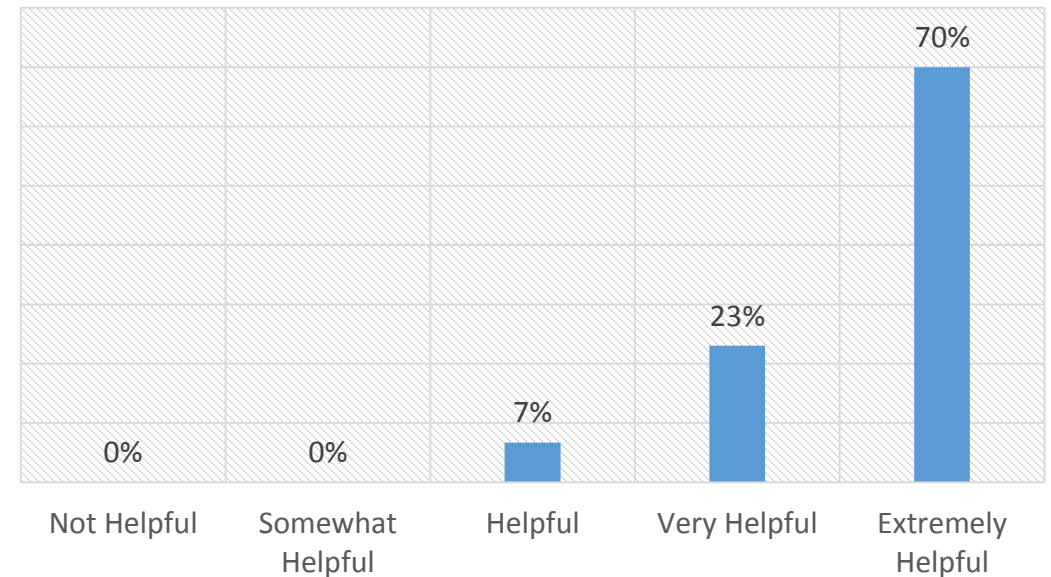
Young investigators indicate the extent that the following components helped meet their expectations:

Rehearsal Sessions



N=30

Opportunity to refine presentation skills



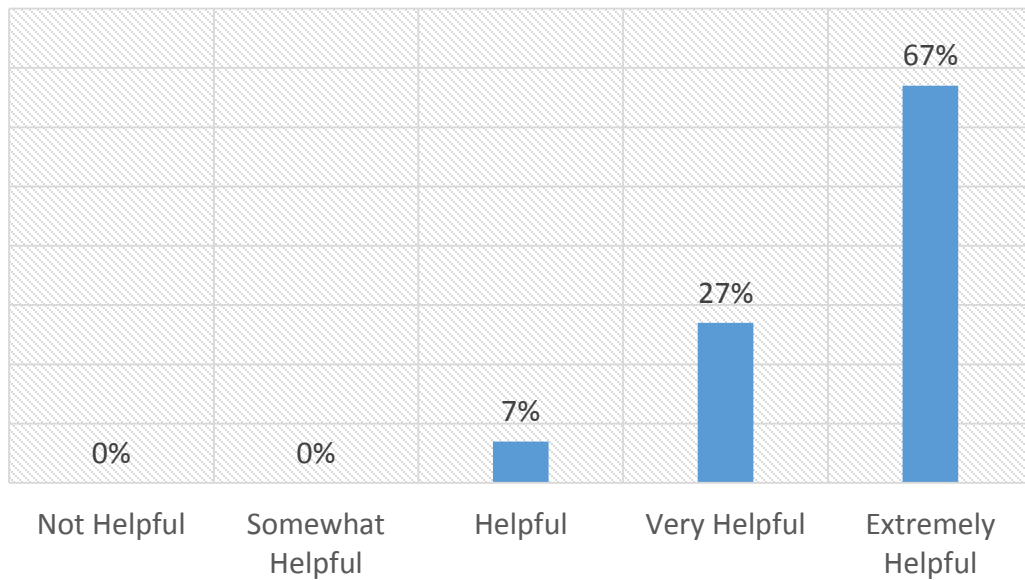
N=28



Evaluation

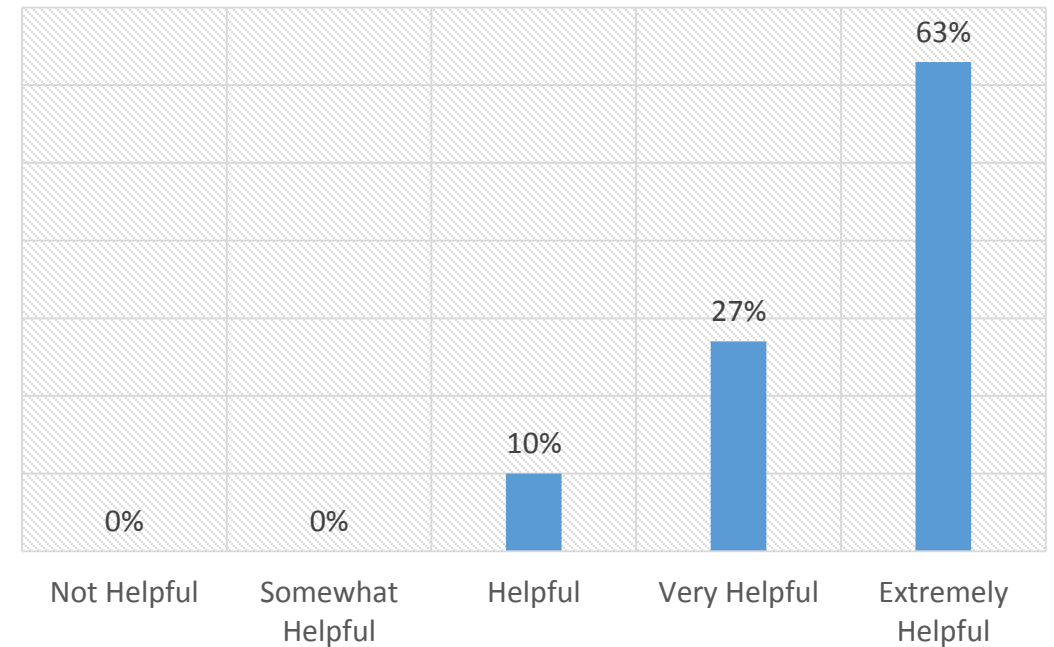
Young investigators indicate the extent that the following components helped meet their expectations:

Expert Faculty Questions and
Feedback



N=30

Expert Faculty Lectures



N=30

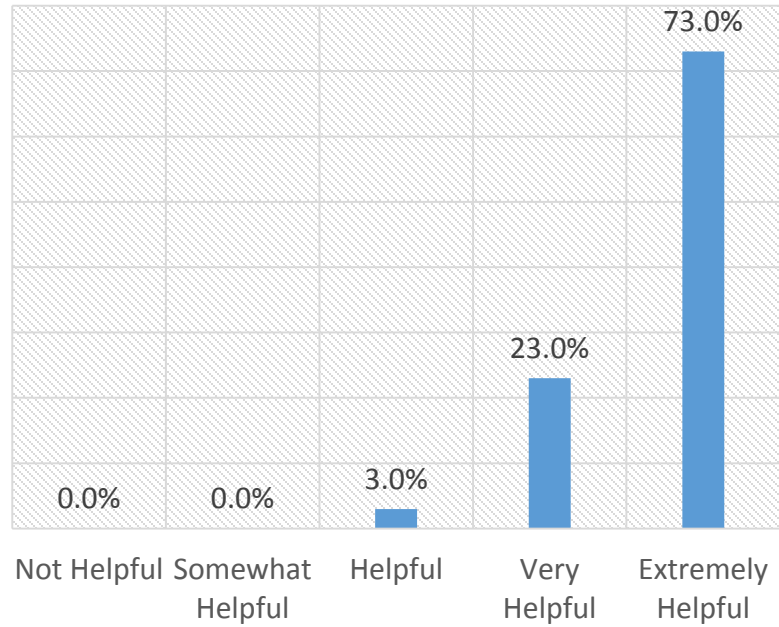


Evaluation

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

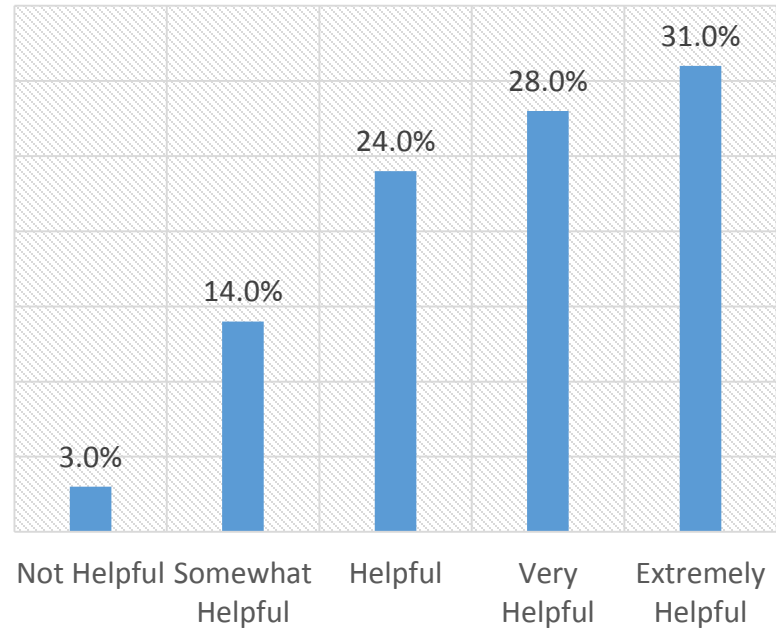
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Networking with peers



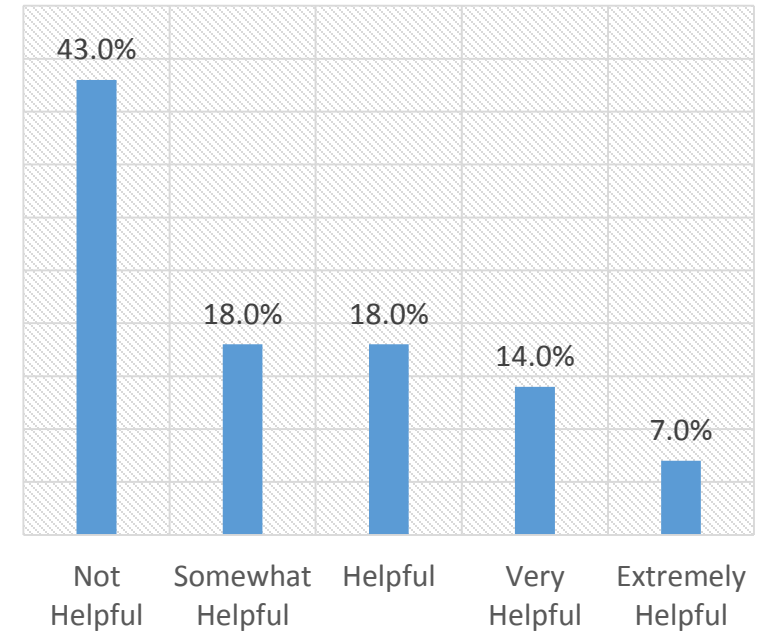
N=30

Preparatory Webinar



N=30

LinkedIn Group

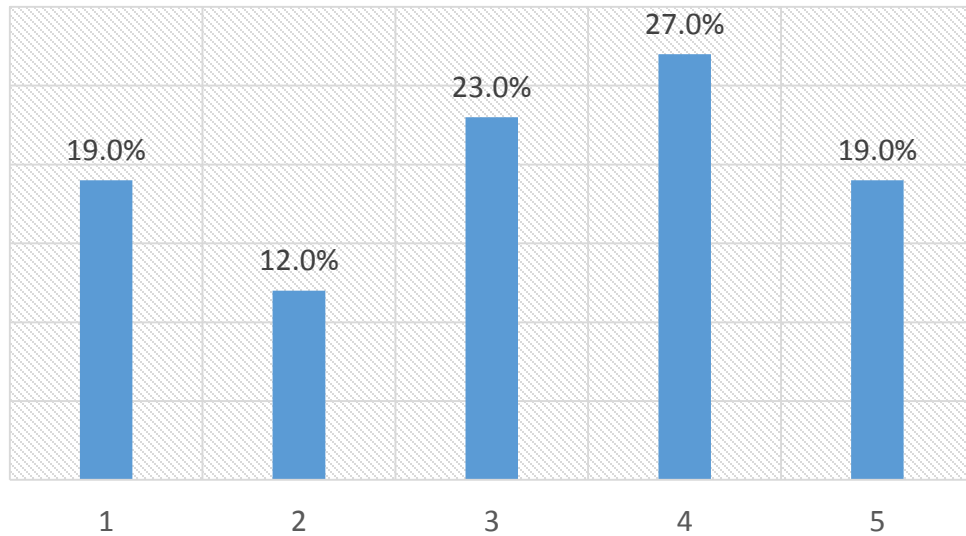




Evaluation

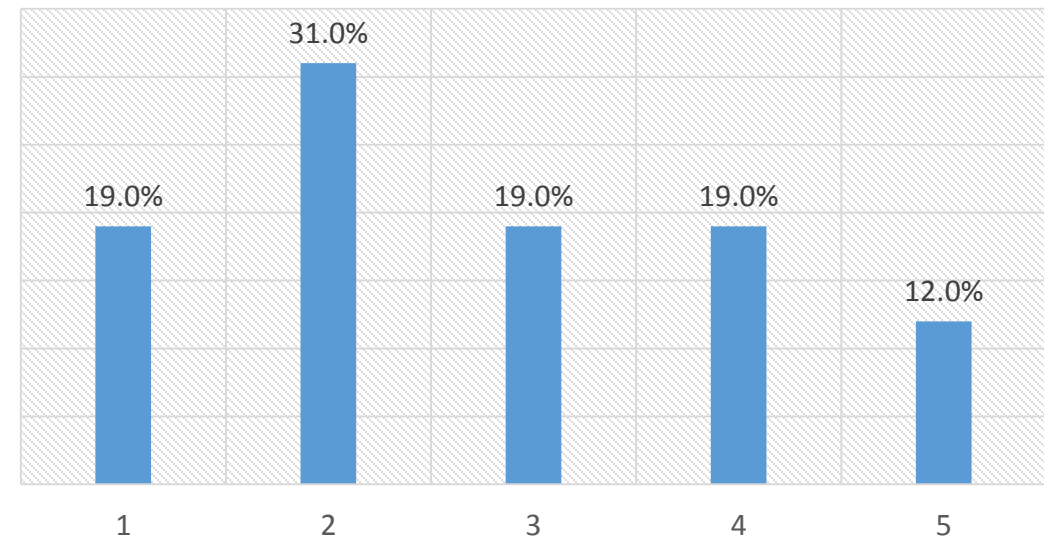
Young Investigators rank expert faculty topics from most helpful (1) to least helpful (5)

Scientific Writing for the Early
Career Researcher



N=28

Career Development Awards and
Other Funding Sources



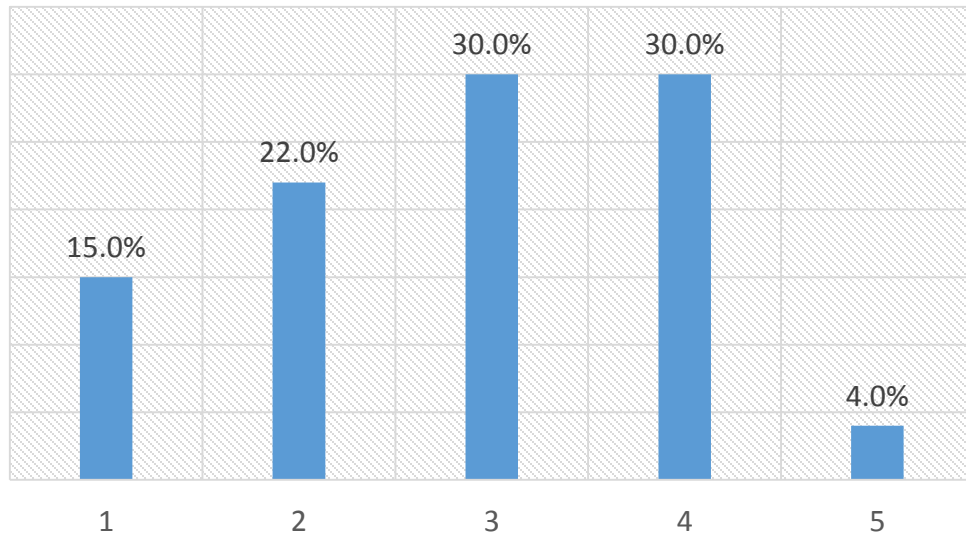
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Evaluation

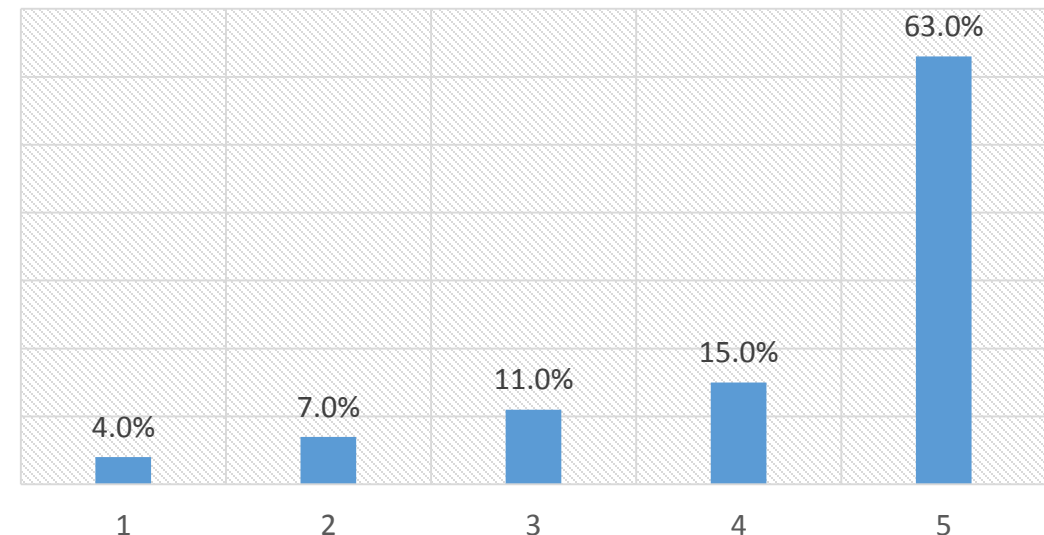
Young Investigators rank expert faculty topics from most helpful (1) to least helpful (5)

Strategies for Successful Grant Applications



N=28

Unique Contributions of the Physician Scientist



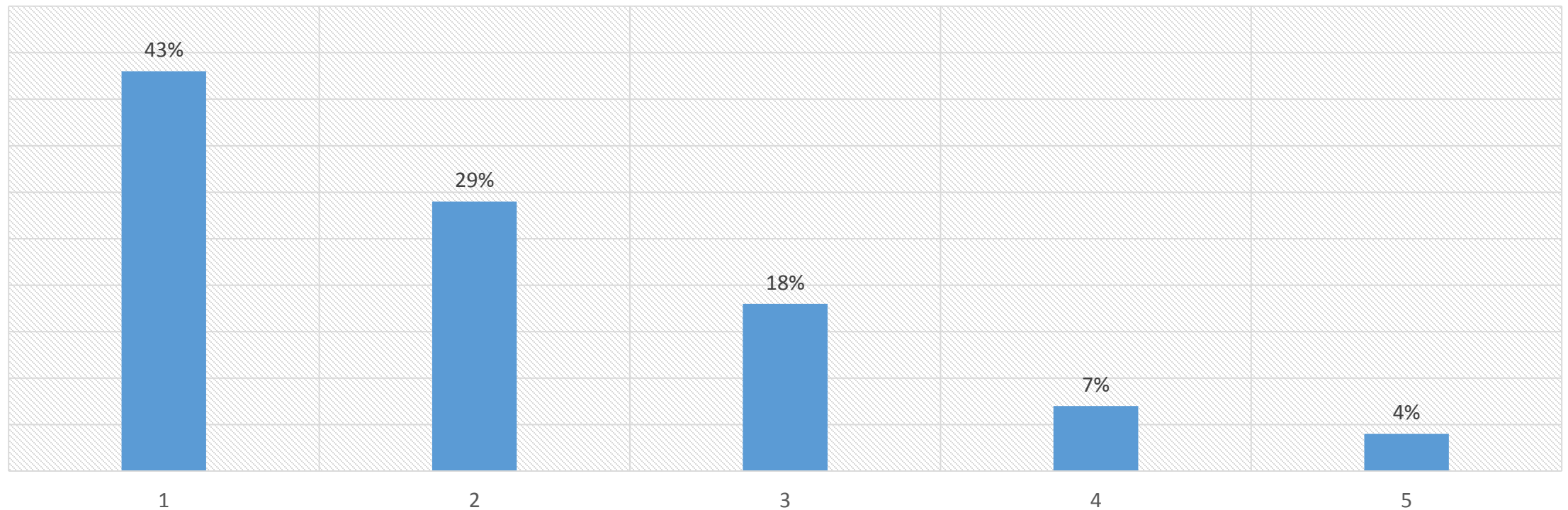
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Evaluation

Young Investigators rank expert faculty topics from most helpful (1) to least helpful (5)

Navigating your Career Path: Finding a Job and Salary Negotiations

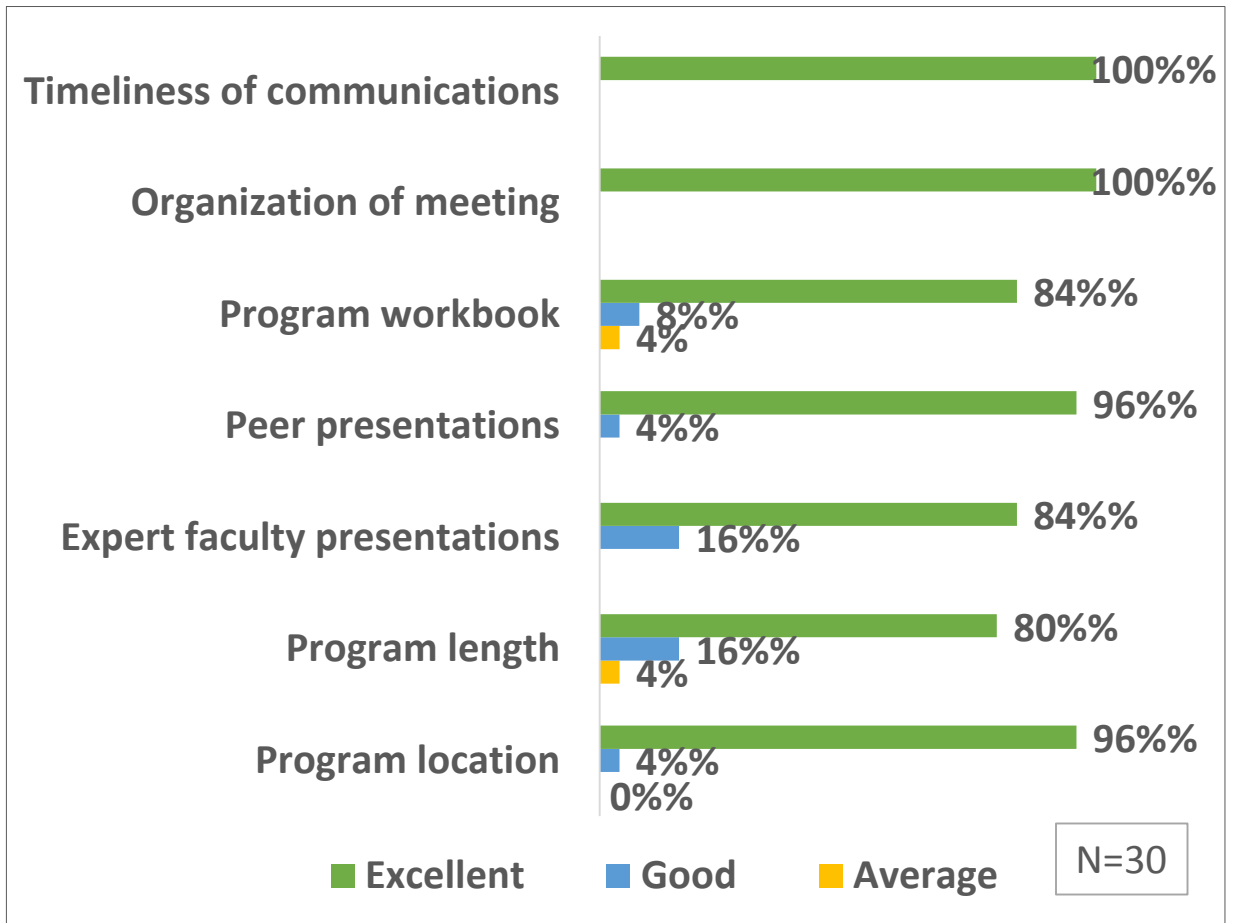




Evaluation

- **100%** reported the material was presented in an **objective manner and free of commercial bias**
- **100%** reported that the **educational content met the learning objectives**
- **100%** reported that the **expectations for this forum were met or exceeded**
- **100%** reported that the **activity positively influenced interest in pursuing a career as a physician scientist**
- **100%** reported that, in comparison to other professional development activities attended, **this activity was as helpful or more helpful toward meeting professional goals**
- **73%** reported they would **modify other abstract submissions based on feedback received during this activity**

How would you rate:



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Participant Takeaways:

Young Investigators report key take-aways from this educational activity

“I was happy to see senior faculty so eager to help motivate young investigators on a national level.”

“Extremely useful and unique opportunity to present to a panel of expert faculty and colleagues in a smaller but formal setting. Excellent words of wisdom from physician scientist that is rare to receive.”

“Reinforced the benefits to a career as a physician scientist.”

“I had an excellent experience meeting peers from other institutions as well as senior career scientists. The weekend was outstanding overall and makes me more confident for future short format talks. Thank you for organizing it. I will tell people in my fellowship to attend next year.”



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Participant Takeaways:

Young Investigators report the biggest benefit of participating is:

“Direct feedback from colleagues and faculty regarding research approach.”

“Networking with top faculty in the field.”

“Great opportunity to present to and seek input from thought leaders in the field

“Meeting people and gaining confidence.”

“Presenting my data and research in a scientific forum to peers and expert faculty.”

“One-on-one interactions, uncensored conversations (things no one likes to talk about like negotiations).”

“Feedback on presentations, being exposed to other young investigators in the same field - seeing their research AND meeting them!”

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Educational Needs:

Young Investigators report changes they may make in their career trajectory after participating in this activity:

“Motivation to apply for more grants.”

“Find a clinical area of expertise.”

“Plan to add daily writing sessions to work on grants and manuscripts to improve writing skills.”

“Paying attention to how much time I have protected for research.”

“Reaffirmed my career path.”

“Hoping to collaborate with someone I met here for research!”



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Educational Needs:

Young Investigators report changes they may make in their clinical practice after participating in this activity:



“Plan on implementing some changes – adding a few tests, filtration of protein – to the bench/laboratory tests we are running in order to compare results as mentioned by expert faculty.”

“Going all in to pursue a career in research.”

“Making sure I have only 25% clinical time post fellowship.”

“Additional asthma evaluation.”

“More intense screening for allergic allergens and consideration of home environment for allergen exposure.”

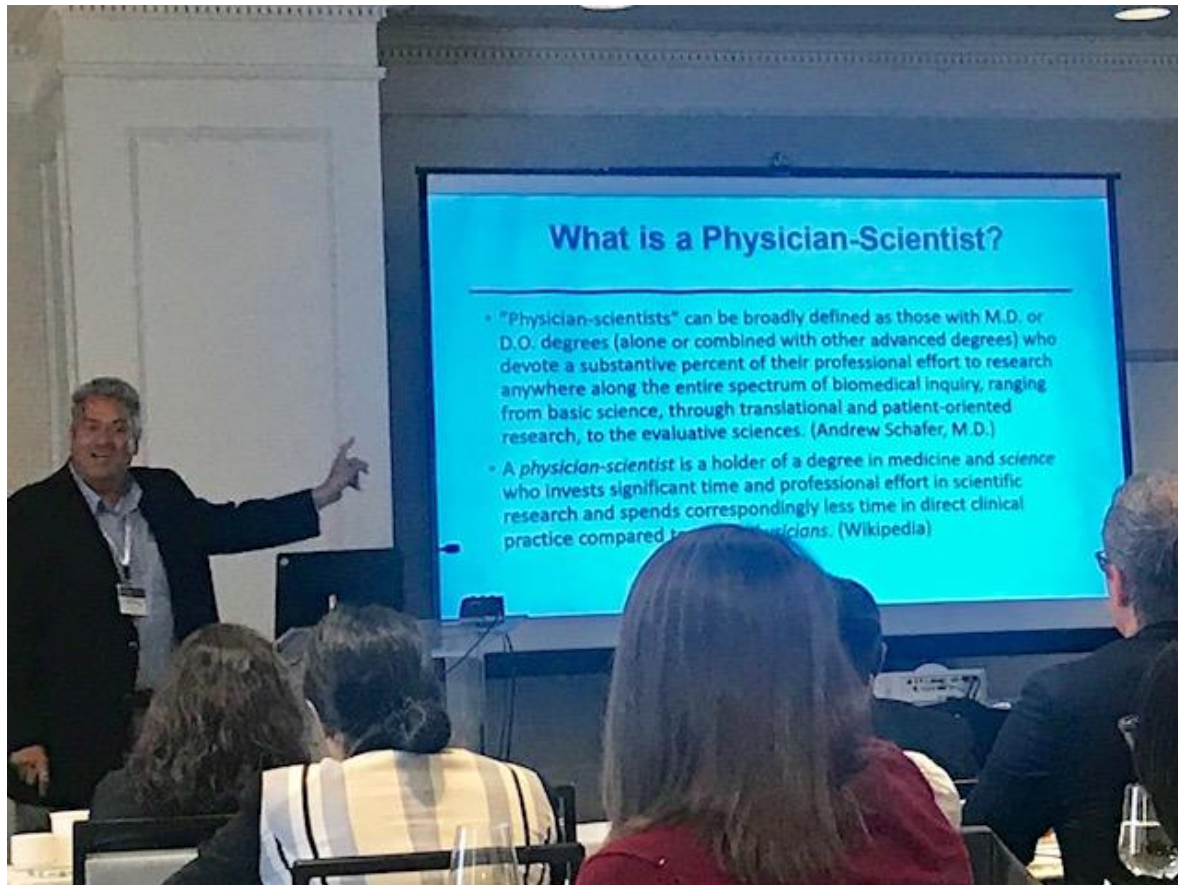
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Educational Needs:

Young Investigators recommend topics for future expert faculty presentations



- ✓ A mock study session so that we can better understand what's going on in the room when experts are reviewing our grants
- ✓ How to form scientific collaborations across institutions
- ✓ How to develop a multidisciplinary research team
- ✓ Navigating the transition from fellow to faculty and establishing yourself as no longer the trainee
- ✓ Navigating national level engagement
- ✓ Tips on reviewing other people's work, eg for a journal

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Accreditation

NJH is accredited 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.

NJH designated this activity for **11.5 AMA PRA Category 1 Credits™**.

