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# Respiratory Structure and Function

Editor: Blanca Camoretti-Mercado, PhD

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## MESSAGE FROM THE ASSEMBLY CHAIR

Year after year we gather in a welcoming city, feel the excitement of meeting colleagues and friends, present and discuss our work, and proudly witness the performance of our young investigators and mentees. We enjoy superb scientific and educational sessions, get a fresh infusion of ideas, and initiate new collaborations. The arrival of spring softly reminds us that it is again that time of year when the ATS International Conference is just around the corner, and we start finalizing the last details of our trip to Washington D.C. in May. For me and for the leaders of our Assembly on Respiratory Structure and Function, it is the time to inform you what we have achieved since returning from ATS 2016 International Conference in San Francisco.



Blanca Camoretti-Mercado, PhD

The RSF Executive Committee has been working diligently not only on the various aspects related to the upcoming International Conference but also in planning and implementing several interesting activities independent of the conference, as delineated below. It is with this spirit of accomplishment, excitement, and service that I personally invite you to become more involved with your assembly and join the fabric of RSF members as your primary assembly if you have not yet done so. All contributions are valuable, and you will be building your academic and professional resume while probably making new friends.

Among the 14 assemblies, RSF may be the broadest scientifically. RSF homes a blend of senior and junior scientists and clinicians. Over 30% of RSF members are internationals and we have a rich diversity and wide variety of interests with a focus on the integrated function of the respiratory system, from the cell and molecular levels to whole individuals and populations, both in health and disease. RSF is a core unit of ATS, its strength being drawn from the bottom up, from its members. At RSF we thrive to appreciate and recognize the dedication and accomplishments of our members, and promote participation of new members by providing an atmosphere of comradery, embracement, and engagement.

Assembly members recently elected new RSF officers. The Nominating Committee chaired by Dr. Julian Solway did a terrific job securing a pool of outstanding candidates and striving for inclusiveness among the nominees. I would like all members to take ownership in the assembly and participate in the elections. It is your right. If you did not receive the announcement for voting, please let us know, and update your member profile with the current contact information to make sure you vote next time. Details of our Assembly can be found on our website (<http://www.thoracic.org/members/assemblies/assemblies/rsf/>). The election results will be announced during the Membership Meeting in Washington, DC.

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## MESSAGE FROM THE ASSEMBLY CHAIR (*Continued*)

We pay special attention to our junior members because they are the future of RSF and the ATS, and because they belong to one of the vulnerable fragments of the Society. Thus, I am happy to mention several activities geared to our junior colleagues. First, our Early Career Professionals Working Group (ECP WG) led by Dr. Gijs Ijpmma has successfully programmed two workshops at the Conference targeted at junior investigators. Second, all abstracts sessions organized by our Program Committee led by Drs. Gwen Skloot and Tillie Hackett will have a junior colleague as facilitator (and many sessions will have an international member as facilitator as well). Third, the vast majority of the podcasts that RSF launched were hosted by junior investigators. And fourth, through a new initiative championed by the ECP WG, our assembly has been highlighting young investigators on our website on monthly basis. We are proud that RSF reached a record number of releases of Podcasts and Journal Clubs since last May. They are produced under the leadership of Dr. Sana Siddiqui with expert support from ATS staff. If you are interested in participating in the preparation of Podcasts or Journal Clubs, contact them.

Symposia, Workshops, and Postgraduates Courses at the Conference happen because someone got a bright idea, or identified a recent discovery, an emerging or unmet need in the field or in the scientific community, and prepared a proposal, usually recruiting input from other assembly members. The competition for the few slots is big; and if your proposal is not selected, you will get feedback and can try again the following year. In addition, I want to encourage you to submit that Sunrise or Meet the Professor Seminar proposal that you have been thinking about or have half-way written, and submit it to present it to your peers during the next Conference.

In response to feedback we received regarding last year's RSF dinner, the Planning Committee led by Dr. Reinoud Gosens has organized a reception on Monday immediately after the Membership Meeting. As in the past, this gathering promises to be a highpoint of the Conference. I invite you to join us and enjoy good company and food, introduce yourself, get to know new people, potential collaborators and senior colleagues, discuss projects, and take advantage of this great networking opportunity, especially for trainees and junior professionals. Other activities sponsored by the Committee are detailed below. They include an Assembly Highlights from the Blue Journal for the published statement on airway remodeling.

During the ATS Board of Directors meeting in September, the ATS Immediate Past President Dr. Atul Malhotra established the basic science PhD Taskforce formed by the chairs of the RSF, AII and RCMB assemblies. The Group's charge is to identify issues that concern PhDs, how to improve their experience with ATS and how to increase the value provided by ATS. I believe this could be a useful venue to express what matters to us, and I urge you to reach to me or to Drs. Alastair Stewart or Janette Burgess, whom I asked to also represent RSF on the Taskforce. It is my expectation that a strong communication will develop between the Group, the Science Innovation Center (SIC), and our Program Committee. The SIC plans activities at the Conference that are of interest to basic science-oriented assembly members. I have appointed Drs. Jane Bourke and Ramaswamy Krishnan to serve in the SIC on behalf of SRF.

Those who attended the RSF Membership Meeting last year learned about the challenges our assembly was facing with declining number of submitted abstracts, the reorganization of the abstract programming, and the need to do a self-inspection to revisit our mission and enhance our relevance in the Society. I am happy to report that this year RSF has received almost 30% more abstracts than last year. Our goal is to continue this trend and to pass the 500-abstract mark in 2018. I have no doubt that we can accomplish this with your commitment and participation.

Besides this good news and accomplishments, we recognize that there is room for improvement. We need to hear your voice and get your help. So, I am asking you to attend our Membership Meeting in DC on Monday at 5 pm at the Grand Hyatt Washington DC - Independence Ballroom. Come and get informed, familiarize yourself with all that RSF and ATS have to offer, and learn about the ATS' activities from the ATS leaders. Meet current and recently elected RSF officers of the various Committees and Working Groups, and volunteer to get involved. Congratulate the winners of the Stuart J Hirst Abstract Excellence Award and Travel Awards, the Ann Woolcock Memorial Award, the Joseph R. Rodarte Award for Scientific Distinction, and the Robert Crapo Memorial Lifetime Achievement Award in Pulmonary Diagnostics. Most importantly, bring your questions, share your ideas, and engage in the discussion. Following are summary reports of the various RSF Committees and Working groups. I appreciate their hard work, enthusiasm, and dedication.

In closing, it is my honor to chair the RSF Assembly and serve its members. I welcome your suggestions, comments, and feedback at all times. Please, contact me at [bcamoret@health.usf.edu](mailto:bcamoret@health.usf.edu). I look forward to seeing you in Washington DC!

# PLANNING COMMITTEE REPORT

Reinoud Gosens, PhD, Chair

The RSF Planning Committee has recently participated in the generation and review of new ATS Assembly Projects for 2017-2018. RSF members submitted two fine proposals and co-sponsored three additional ones. We were not successful in securing funding for new projects as primary Assembly. Constructive feed-back was received however, and several new projects will be prepared for submission for 2018-2109. To this end, the Committee has identified scientific areas of interest for RSF and will be developing some of them. We encourage prospective applicants to discuss their ideas with the Planning Committee for comments and guidance. We welcome submission of draft applications by email or the exchange of new ideas at the International Conference in Washington. You will be able to meet the RSF Planning Committee members at the RSF reception directly after the RSF Membership Meeting on Monday May 22nd.

We welcome all of you to attend the RSF reception after the Membership Meeting on Monday 22nd (reception starting at 7 pm). Registration for the reception is required and can be done via the registration form online. The reception aims to bring together all colleagues from RSF, in all fields, both junior and senior scientists and physicians, to meet and build new contacts or strengthen existing ones. We encourage senior scientists to bring their trainees to the event.

The significant task of choosing the awardees of the prestigious Joseph R. Rodarte (for lifetime research achievement), Ann Woolcock (for an outstanding young investigator in asthma) and Robert Crapo (for a lifetime of dedication and accomplishment in the study of pulmonary diagnostic testing) Awards, is underway. The awards will be presented during the 2017 Membership Meeting at the International Conference.

## Assembly Projects Updates

I am happy to report that several ATS projects, for which RSF was the primary assembly, were recently concluded, and the documents that were prepared as part of these projects were finalized.

- The project **Advancing Airway Remodeling as a Therapeutic Target** headed by Drs. Penn and Prakash was completed in 2016, followed by publication of an ATS Research Statement in January this year (Prakash YS et al., *Am J Respir Crit Care Med.* 2017, 195:e4-e19. doi: 10.1164/rccm.201611-2248ST). See below about the Highlight in the Blue Journal.
- The project on **Evaluation and Management of Asthma in the Elderly** headed by Dr. Skloot published their workshop report in Skloot GS et al., *Ann Am Thorac Soc.* 2016, 13:2064-2077.
- The working group led by Dr. Graham has published the article, **2017 ATS/ERS Standards for Single-breath Carbon Monoxide Uptake in the Lung** (Graham BL et al., *Eur Respir J* 2017, 49 : 1600016), that provides an update to the technical standards that were last updated in 2005.

I highly recommend these documents for reading as they summarize the state of knowledge in key RSF priority areas.

# PROGRAM COMMITTEE REPORT

Gwen S. Skloot, MD, Chair

The RSF Program Committee had a very productive year. We successfully programmed 3 Scientific Symposia (one recognized as Basic Science Core), 3 Meet the Professor Seminars, 2 Post Graduate Courses, and 2 Workshops. In addition, we participated in programming 2 competitive joint symposia, and based on the decision of the RSF Advisory Committee, one of RSF's submitted proposals was incorporated into a top down symposium. We are particularly proud of the fact that we developed a joint symposium on Imaging and Metrics to be co-presented with the American College of Radiology. All programmed sessions by SRF are listed below.

Last year, there was an alarming decline in abstracts submission to RSF that we partially attributed to the introduction of new classification of abstracts categories. We worked conscientiously to reverse this trend, and joined forces with the Early Career Professionals Group to assist with the abstract writing and submission process guide. We were quite dogged in our efforts to solicit abstracts from our membership via email. These efforts paid off, and we are happy to report that RSF abstract submissions increased by 29% compared to 2016. At the December International Conference Committee (ICC) meeting, we worked collaboratively with multiple other assemblies to program submitted abstracts. RSF programmed 5 Mini-symposia, 6 Poster Discussions, and 13 Thematic Poster sessions. We are very pleased with these results and feel that ATS 2017...

*(Continued on page 4)*

## PROGRAM COMMITTEE REPORT (Continued)

... Conference will strongly highlight the work of RSF in all areas but particularly related to imaging, airway smooth muscle, acute lung injury, pulmonary measurements and the extracellular matrix. We have assembled a group of top-notch moderators and facilitators to enhance the program further that includes junior and international members. The award subcommittee selected the winners for the Stuart J. Hirst Award and the Science and Innovation Center award from the outstanding abstracts submitted. It was difficult task, and the winners will be announced during the Business Meeting

I worked hard with our chair-elect Dr. Hackett in revising the new abstract categories to make them more relevant to our membership. We received input from many senior and junior RSF members regarding the most important changes needed and submitted our proposal for discussion in the ICC. We were able to negotiate the addition of “Physiology/pathophysiology” to every pertinent abstract category for the 2018 ATS Conference; we believe that this important modification will increase abstract submission to RSF. We suggested also other modifications that are being finalized by the ICC.

As we look ahead to 2018, we hope to strengthen our membership, encourage submissions of all types to RSF, and to facilitate the abstract submission process. We will continue to strive to have strong and diverse representation at ATS conferences.

## WEB COMMITTEE REPORT

Sana Siddiqui, PhD, Web Director

Post-ATS 2016 has been eventful! The first Web Directors' meeting was held at the ATS Leadership Summit in San Antonio in September 2016. RSF received positive feedback on the initiatives we were proposing and the progress we made since last May. We followed-up with a teleconference in February 2017 in which Web directors presented a progress report and explored ways to increase collaboration between assemblies. Members of our Web Group are mostly RSF early career professionals from around the world and we benefit from the participation of senior members Drs. Charlie Irvin and Blanca Camoretti-Mercado. Recently, RSF created the Journal Club Subcommittee chaired by Dr. Eric Gartman, who is a new RSF member, and the Podcast Subcommittee chaired by myself, Dr. Sana Siddiqui.

Examples of postings in the "What's New" section on the RSF web page are the monthly Early Career Professional Highlights (a new initiative championed by Dr. Jade Jaffar), the updated RSF Abstract Writing Guide 2017 (submitted by Dr. Gijs Ijpmma with input from Drs. Camoretti-Mercado and Skloot), and all the podcasts and journal clubs releases and their respective content pages. We recommend to check the site periodically to know what is going on in RSF.

We are delighted to report that we have been actively producing podcasts on a variety of hot topics including a series of conversations on Work/Life Balance in Academia with Jae Ellard, an author and expert who specializes in behaviors that cause imbalance, disengagement, and distraction. The podcasts released are:

- ***Brexit and Its Impact on Research in Academia***, guest: Dr. Stephen Holgate; moderator: Dr. Luke Bonser.
- ***A Dialogue between the New Editor of the Red Journal and the RSF Assembly Chair***, with Drs. Paul Schumacker and Blanca Camoretti-Mercado
- ***Stress and Anxiety***, moderator: Dr. Eleshia Morrison
- ***Digital Boundaries as they Relate to Mindfulness***, moderator: Dr. Nirav Bhakta
- ***Energy and State of Mind***, moderator: Dr. Michael O'Sullivan
- ***Time Management***, moderator: Dr. Camoretti-Mercado

In November RSF co-sponsored the journal club “***Innate immunity and asthma risk in Amish and Hutterite farm children***” by Stein et al., published in the NEJM. This article had a lot of written and oral press. Our Assembly has scheduled for March 16 the journal club “***Physiologic effects of high-flow nasal cannula in acute hypoxemic respiratory failure***”, published in the Blue Journal in December 2016. We will be collaborating with other ATS Assemblies to host and/or share platforms to advertise. Please sign up to attend our journal clubs.

We look forward to receiving ideas, suggestions, and more volunteers from within the RSF Assembly and hope to continue to meaningfully engage with our RSF Assembly. We invite you to join our two social media:

RSF Twitter: [https://twitter.com/ATS\\_RSJ](https://twitter.com/ATS_RSJ)

RSF Facebook: <https://www.facebook.com/pages/ATS-RSF-Assembly/508565009274117>

# EARLY CAREER PROFESSIONALS WORKING GROUP REPORT

Gijs Ijpma, PhD, Chair

Another good year for the Early Career Professionals working group (ECP)! The ECP aims to help graduate students, post-docs, clinical fellows and junior professionals getting ahead in their careers by offering workshops, a mentoring program, and other tools to maximize your exposure at ATS and in the scientific community. The working group is composed of early career professionals spanning three continents and a wide variety of backgrounds.

We organized two workshops at 2017 ATS, both at the Marriott Marquis Washington:

- **Career development: How to start your independent research laboratory**, will feature six speakers discussing managing to set-up a lab together with clinical practice; teaching and grant writing; developing a budget; strategies regarding the start-up package; starting a lab at NIH; starting a lab at an engineering school; and challenges and opportunities at large vs. small universities.
- **Preparing for entering the grant shark tank: Attaining early career funding**, will feature four speakers discussing the navigation of early career funding; K awards and foundations mechanisms; NIH awards for new and early PIs; and international funding mechanisms.

The 2016 RSF Mentorship Program was very successful, with new pairings of 17 mentors and 18 mentees. The program allows students and trainees to connect with mentors who have already established themselves in their careers to receive advice and guidance. There is at least one face-to-face meeting in a reserved space at the ATS international conference. We have received lots of positive feedback on the program, and most participants would recommend others to participate too. The program is currently run by Drs. Jin-Ah Park and Kanika Jetmalani. We are always looking for new mentors and mentees, so do not hesitate to contact ATS coordinator, Melinda Garcia ([mgarcia@thoracic.org](mailto:mgarcia@thoracic.org)).

We have also updated / developed several other initiatives:

- **2017 Abstract Writing Guide:** In 2013 we developed a guide to help both in the writing of the abstract and the navigation of the submission process to maximize the exposure of your research. Every year we update this guide to incorporate changes in the submission process. The guide can be found here: <http://www.thoracic.org/assemblies/rsf/resources/rsf-abstract-writing-guide.pdf>
- **ECP Highlights:** a brief description of one early career RSF member and their research. We aim to post a new ECP highlight every month from now on. The Highlights can be found at <http://www.thoracic.org/members/assemblies/assemblies/rsf/ecp-highlights/>
- **Podcasts:** In coordination with RSF Web Director, Dr. Siddiqui, we launched 6 podcasts this year, 4 on work-life balance, 1 on the impact of Brexit on academia, and 1 featuring our RSF chair and the new editor of the Red Journal. All can be found at: <http://www.thoracic.org/members/assemblies/assemblies/rsf/podcasts.php>
- **Journal Clubs:** we have co-sponsored and organized 2 Journal Clubs and are organizing several others under the leadership of Dr. Gartman. <http://www.thoracic.org/members/assemblies/assemblies/rsf/journal-club/>
- **Social Media:** We are also active on Twitter ([https://twitter.com/ATS\\_RSf](https://twitter.com/ATS_RSf)) and Facebook (<https://www.facebook.com/pages/ATS-RSF-Assembly/508565009274117>), where the above activities are listed and important publications from and for RSF members are posted.

If you have any ideas, or would like to join us, please do not hesitate to contact me ([gijs.ijpma@mcgill.ca](mailto:gijs.ijpma@mcgill.ca)). See you in Washington DC!

# ATS 2017 INTERNATIONAL CONFERENCE ASSEMBLY ON RESPIRATORY STRUCTURE AND FUNCTION SESSIONS

Session Code	Session Title	Session Time	
<b>Postgraduate Courses</b>			
<b>Friday, May 19, 2017</b>			
PG9	MASTER PHYSIOLOGY CLASS: HEMODYNAMICS	8:00 AM	4:00 PM
<b>Saturday, May 20, 2017</b>			
PG21	PULMONARY FUNCTION AND CARDIOPULMONARY EXERCISE TESTING: MOVING FROM THEORY TO CLINICAL PRACTICE	8:00 AM	4:00 PM
<b>Scientific Symposium</b>			
<b>Sunday, May 21, 2017</b>			
A9	IN MEMORY OF PETER T. MACKLEM: EMERGENT PHENOMENA AND HETEROGENEITY IN RESPIRATORY DISEASE	9:15 AM	11:15 AM
<b>Monday, May 22, 2017</b>			
B5	SMOKERS WITH PRESERVED SPIROMETRY: EARLY COPD?	9:15 AM	11:15 AM
<b>Wednesday, May 24, 2017</b>			
D86	INTERACTIONS BETWEEN FAT AND FLOW	1:30 PM	3:30 PM
<b>Jointly-Developed Symposium</b>			
<b>Sunday, May 21, 2017</b>			
A5	DOHAD: DEVELOPMENTAL ORIGINS OF HEALTH AND DISEASE AND THE CIRCLE OF LIFE FOR LUNG DISEASE	9:15 AM	11:15 AM
A85	THE EXPOSOME CONCEPT: UNDERSTANDING IMPACT ON LUNG HEALTH AND DISEASE	2:15 PM	4:15 PM
A91	CATCHING FIRE: THE GLOBAL HEALTH ISSUE OF HOUSEHOLD AIR POLLUTION	2:15 PM	4:15 PM
<b>Tuesday, May 23, 2017</b>			
C11	POLLUTION EFFECTS ON THE EPIGENOME IN THE DEVELOPMENT OF CHRONIC LUNG DISEASE	9:15 AM	11:15 AM
C85	SCIENTIFIC BREAKTHROUGHS: REGULATION OF THE STRESS RESPONSE IN LUNG DISEASE	2:15 PM	4:15 PM
<b>Workshop Sessions</b>			
<b>Tuesday, May 23, 2017</b>			
WS6	CAREER DEVELOPMENT WORKSHOP: HOW TO START YOUR INDEPENDENT RESEARCH LABORATORY	11:45 AM	1:15 PM
<b>Wednesday, May 24, 2017</b>			
WS8	PREPARING FOR ENTERING THE GRANT SHARK TANK: ATTAINING EARLY CAREER FUNDING	11:45 AM	1:15 PM
<b>Sunrise Seminars</b>			
<b>Monday, May 22, 2017</b>			
SS116	PRENATAL AIR POLLUTION EXPOSURE AND PROGRAMMING OF RESPIRATORY OUTCOMES	7:00 AM	8:00 AM

Session Code	Session Title	Session Time	
<b>Tuesday, May 23, 2017</b>			
SS216	THINKING OF STARTING A BRONCHIAL THERMOPLASTY PROGRAM: WHAT YOU NEED TO KNOW IN 2017	7:00 AM	8:00 AM
<b>Wednesday, May 24, 2017</b>			
SS316	NEW APPROACHES IN LUNG BIOLOGY ENABLED BY THE PRECISION CUT LUNG SLICE	7:00 AM	8:00 AM
<b>Meet The Professor Seminars</b>			
<b>Sunday, May 21, 2017</b>			
MP415	OBESE ASTHMA: UNDERSTANDING AND MANAGING A COMPLEX PROBLEM	12:15 PM	1:15 PM
<b>Monday, May 22, 2017</b>			
MP513	NEW FRONTIERS IN G PROTEIN COUPLED RECEPTORS: RELEVANCE TO ASTHMA AND COPD	12:15 PM	1:15 PM
<b>Tuesday, May 23, 2017</b>			
MP613	LUNG IMPEDANCE: MEASUREMENT AND INTERPRETATION	12:15 PM	1:15 PM
<b>Mini-Symposium</b>			
<b>Sunday, May 21, 2017</b>			
A19	THE EXTRACELLULAR MATRIX: A STICKY SITUATION	9:15 AM	11:15 AM
A98	SEEING IS BELIEVING: USING NOVEL IMAGING TECHNIQUES TO UNDERSTAND THE LUNG IN HEALTH AND DISEASE	2:15 PM	4:15 PM
<b>Tuesday, May 23, 2017</b>			
C18	MECHANISMS OF AIRWAY HYPERRESPONSIVENESS AND REMODELING	9:15 AM	11:15 AM
<b>Wednesday, May 24, 2017</b>			
D19	NOVEL THERAPEUTIC TARGETS IN OBSTRUCTIVE LUNG DISEASE	9:15 AM	11:15 AM
D98	INSIGHTS INTO ENVIRONMENTAL EXPOSURES IN ASTHMA, COPD, AND CONSTRUCTIVE BRONCHIOLITIS	1:30 PM	3:30 PM
<b>Poster Discussion Sessions</b>			
<b>Monday, May 22, 2017</b>			
B30	MECHANISMS OF AIRWAY SMOOTH MUSCLE CONTRACTILITY AND RELAXATION: POTENTIAL THERAPEUTIC TARGETS	9:15 AM	11:15 AM
B109	ADVANCES IN PULMONARY MEASUREMENTS, MODELING, AND METHODOLOGY	2:15 PM	4:15 PM
<b>Tuesday, May 23, 2017</b>			
C29	ADVANCES IN PULMONARY IMAGING TO STUDY LUNG STRUCTURE AND FUNCTION	9:15 AM	11:15 AM
C108	GETTING INFLAMED: MARKERS OF LUNG INJURY AND REMODELLING	2:15 PM	4:15 PM
<b>Wednesday, May 24, 2017</b>			
D29	UNRAVELING THE EXTRACELLULAR MATRIX	9:15 AM	11:15 AM
D109	UNDERSTANDING THE MECHANISMS OF ACUTE LUNG INJURY	1:30 PM	3:30 PM

Session Code	Session Title	Session Time	
<i>Thematic Poster Sessions</i>			
<b>Sunday, May 21, 2017</b>			
A76	WHAT'S IN THE TOOL BOX TO ASSESS LUNG FUNCTION	9:15 AM	4:15 PM
A77	CHANGES IN THE LUNG DUE TO DIETARY AND ENVIRONMENTAL EXPOSURES	9:15 AM	4:15 PM
A78	READY... SET... GO: ALL ABOUT EXERCISE PHYSIOLOGY	9:15 AM	4:15 PM
A79	TAKING CONTROL OF BREATHING: RESPIRATORY MUSCLES, INNERVATION, AND GAS EXCHANGE	9:15 AM	4:15 PM
<b>Monday, May 22, 2017</b>			
B80-C	GETTING MODELED: BIOENGINEERING AND COMPUTATIONAL METHODS	9:15 AM	4:15 PM
B80-D	EVERYTHING YOU WANTED TO KNOW ABOUT AIRWAY SMOOTH MUSCLE BUT WERE AFRAID TO ASK	9:15 AM	4:15 PM
B80-E	FROM BENCH TO BEDSIDE: THE RIGHT VENTRICLE, PULMONARY VESSELS, AND THEIR DISORDERS	9:15 AM	4:15 PM
B80-F	A TWITCH IN TIME: AIRWAY HYPERRESPONSIVENESS AND COUGH	9:15 AM	4:15 PM
<b>Tuesday, May 23, 2017</b>			
C79	ADVANCING UNDERSTANDING OF OBSTRUCTIVE LUNG DISEASE: MEDICATIONS AND MECHANISMS OF DELIVERY	9:15 AM	4:15 PM
C80-A	EVERYTHING YOU NEED TO KNOW ABOUT BRONCHOPULMONARY DYSPLASIA, CYSTIC FIBROSIS AND DIFFUSE PARENCHYMAL LUNG DISEASES	9:15 AM	4:15 PM
C80-B	MULTI-MODALITY ASSESSMENT OF COPD, ASTHMA, AND ASTHMA-COPD OVERLAP SYNDROME	9:15 AM	4:15 PM
C80-C	IMAGING METHODOLOGY AND APPLICATION TO LUNG DISEASE	9:15 AM	4:15 PM

## RSF ASSEMBLY MENTORSHIP PROGRAM REPORT

Jin-Ah Park, Ph.D. & Kanika Jetmalani, PhD, Mentoring Program Organizers

Are you looking for a mentor, to advance your professional career?

This year at the ATS International Conference in Washington, DC, we have prepared opportunities where you can meet your mentors and share their experience. Mentors will be able to provide career advice and help in navigating the conference. We would like to thank those of you who agree to participate in the Mentoring Program as mentors for your time and generosity, in advance.

The Assembly Mentoring Program is offering a meeting spot **exclusively** for mentors and mentees to meet. The Assembly Mentoring Programs' Meeting Spot will be located at the Renaissance, Washington DC Hotel in the Carnegie room on the Ballroom Level. The room will be available: Friday, May 19h – Tuesday, May 23rd: 7AM - 7PM. Snacks and beverages will be offered throughout the day. There will also be laptops and printers available for use. You can also pick up your Assembly Mentoring Program ribbon and pin!

The mentees and mentors are highly encouraged to meet face-to-face at the Assembly Membership Meeting (no registration required) and at the Assembly on RSF Reception (ticket required) on Monday, May 22. Both the Assembly Membership Meeting and the Reception will be held in the Independence Ballroom A located on the Independence Level 5B, at the Grand Hyatt Washington. We look forward to meeting you at the ATS International Conference in Washington, DC!

For more information on the ATS Mentoring Programs, please visit the ATS website or contact Melinda Garcia, Coordinator at [mgarcia@thoracic.org](mailto:mgarcia@thoracic.org).

## ASSEMBLY HIGHLIGHTS FROM THE BLUE JOURNAL

YS Prakash, PhD

A working group from the RSF Assembly led by Y S Prakash and Raymond Penn published an Official ATS Research Statement on airway remodeling (AR). Co-authors of this Statement were Andrew Halayko, Reinoud Gosens, Reynold Panettieri Jr, and Blanca Camoretti-Mercado. The publication is the culmination of an extensive online discussion and a face-to-face meeting at the 2015 ATS International Conference in Denver, Colorado by an international, multidisciplinary group of about 20 leaders from academia, industry, and the National Institutes of Health, who have expertise in multimodal approaches to the study of airway structure and function, pulmonary research and clinical practice in obstructive lung disease, and drug discovery.

AR is a process encompassing changes in structural cells and tissues of the airway in obstructive disease, particularly asthma. The Research Statement discusses specific scientific, technological, economic, and regulatory issues that deter progress of AR research and development of therapeutics targeting AR, and proposes some approaches and solutions to these specific problems. The Specific challenges identified include: 1) Lack of consensus regarding the importance of the multiple features of AR; 2) Fundamental methodological limitations to defining and exploring AR; 3) Difficulty of proposing “deliverables” in testing anti-AR drugs; 4) Economic and regulatory issues in anti-AR drug discovery and trials. The Recommendations for enhancing AR research and therapeutics include: A) Promoting educational and informational opportunities such as NIH workshops and symposia; B) Promoting multidisciplinary efforts to encourage broad and deep collaborative platforms for AR research; C) Working with leading federal and foundation based funding agencies as well as the pharmaceutical industry to emphasize the need and potential impact of AR research, and developing academia-government-industry partnerships; D) Leveraging long-term funding strategies with international networking/partnerships (reflecting the prolonged timeframe of AR); E) Improving the design of human studies of AR, and assessing drugs that target AR in the context current regulatory indicators.

### *Assembly on Respiratory Structure and Function Membership Meeting*

*Monday, May 22nd  
5:00pm-7:00pm  
Grand Hyatt Washington, DC  
Independence Ballroom A  
Independence Level 5B*

### *Assembly on Respiratory Structure and Function Reception*

*Monday, May 22nd  
7:00pm-10:00pm  
Grand Hyatt Washington, DC  
Independence Ballroom A  
Independence Level 5B*

Be sure to follow us at [@ATS\\_Assemblies](https://twitter.com/ATS_Assemblies) for news on webinars, deadlines, and other things you might have missed in your inbox!



## Meet Your Mentor HERE!



Struggling to find a quiet location to meet with your mentor? Look no further! This year at the 2017 ATS International Conference in Washington, DC, the Assembly Mentoring Programs is offering a meeting spot exclusively for mentors and mentee to meet.

The Assembly Mentoring Programs' Meeting spot will be located in the Renaissance, Washington DC Hotel in the Carnegie room on the (Ballroom Level). The room will be available from:

Friday May 19<sup>th</sup> to Tuesday May 23<sup>rd</sup> between 7AM. to 7PM

Light snacks and beverages will be offered throughout the day. Laptops and printers will be made available for use and don't forget to pick up your Assembly Mentoring Program Ribbon and Pin!

**We hope you can join us at the Assembly Mentoring Program's Meeting spot!**

Interested in joining a mentoring program? Visit our Assemblies homepage and click on ATS Mentoring Program to learn more or contact Melinda Garcia at [mgarcia@thoracic.org](mailto:mgarcia@thoracic.org)

## Submit an Assembly/Committee Project Application for funding in FY2018!

We are happy to announce that ATS will once again accept NEW Assembly/Committee Projects for FY2018. All interested applicants should begin developing their ideas for Assembly/Committee Project Applications. Applications will be available on the ATS website at [www.thoracic.org](http://www.thoracic.org).

Please consider submitting an application for an Assembly/Committee project. If you have a suggestion for a project application and you need assistance, please contact your Assembly Planning Committee Chair Reinoud Gosens, PhD at [r.gosens@rug.nl](mailto:r.gosens@rug.nl).

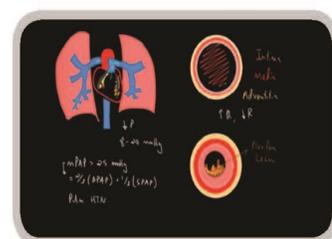
For questions regarding submissions please contact Miriam Rodriguez at tel: 212/315-8639 or email: [mrodriguez@thoracic.org](mailto:mrodriguez@thoracic.org).

## Best of ATS Video Lecture Series (BAVLS)

Do you have an amazing teaching video that you want to share with the world?  
Then consider submitting to the Best of ATS Video Lecture Series (BAVLS).

For more information, please visit

<http://www.thoracic.org/professionals/clinical-resources/video-lecture-series/>



## PROGRAMS AND SPECIAL EVENTS FOR EARLY CAREER PROFESSIONALS

### Networking Exchange For Early Career Professionals

Saturday, May 20, 2017; 5:30-6:30 p.m.

Marriott Marquis • Washington D.C. University of DC/Catholic University (Level M1)

Free to all conference attendees

### Attend a Workshop in the Center for Career (CCD)

Sunday, May 21 – Tuesday, May 23, 2017; 7:00 a.m. – 5:00 p.m.

Walter E. Washington Convention Center Hall D, (Middle Building, Level 2)

**VISIT THE CCD TO PICK UP A ROAD MAP TODAY!**



Washington, DC  
May 19-May 24  
[conference.thoracic.org](http://conference.thoracic.org)

## ANNOUNCING ATS FOUNDATION RESEARCH PROGRAM 2017-2018 GRANT CYCLE

The Research Program is excited to announce that it is now accepting letters of intent! In 2017, the Research Program has increased the number of available Unrestricted Grants for early career investigators. In addition to 15 Unrestricted Grants, the portfolio offers grants with Alpha-1 Foundation, American Lung Association of the Mountain Pacific, Hermansky-Pudlak Syndrome Network, ResMed, PCD Foundation, Pulmonary Hypertension Association, and the ATS Foundation Tobacco-Dependence Research Fund, and 4 MECOR Awards. The deadline for letters of intent is June 6, 2017.

For more information on the current opportunities, please visit [thoracic.org/go/researchgrants](http://thoracic.org/go/researchgrants).

## ATS Membership Matters



Tell us!

As an ATS Assembly member your experience is central to inspiring others to join or renew their membership. **Tell us why ATS membership matters to you! What is its value to you?**

Send a sentence or two, or even a punchy quote, to [MemberValue@Thoracic.org](mailto:MemberValue@Thoracic.org). We appreciate hearing from you within three weeks of the date of this newsletter. Be sure to provide your name, the name of your institution, city and state/country. We may use your quote in a future membership promotion!

## Did you know that as an ATS member you:

- Receive a discount of **20%** (average) on education products at the ATS Store?
- Benefit from **FREE** ABIM and ABP MOC self-assessment products?
- Have access to **NEW member benefits** that include:
  - Significant discounts on Springer respiratory books (print copies), and FREE online access to this book series,
  - Copies of our new ATS pocket guidelines.

**Save \$1,200** – or more – per year on ATS products and services over nonmember rates.

See why [members love the ATS!](#)

## Assembly Members: Help Us to Help You!

Have you:

- ◇ Moved?
- ◇ Changed your title?
- ◇ Added a new specialty, credential or other information?
- ◇ Or perhaps we just do not have a complete profile for you!

Please take a minute to update your contact information, assembly affiliations, and demographic profile today. And now you can also upload your PHOTO to your member profile!

Log in: <https://www.thoracic.org/login/ats-member-login.php>

By keeping your profile current, you help us provide programs and services that are most targeted to you.

## ATS 2017 Exhibitors Doing Fundraisers for ATS Foundation

### **Actelion Pharmaceuticals US, Inc. in Booth 525**

Actelion Pharmaceuticals, Inc. will donate \$25 for each attendee who takes part in their “Join the Conversation” digital graffiti activity. They have pledged a maximum donation of \$25,000.

### **AstraZeneca in Booth 637**

AstraZeneca will donate \$5 for each attendee who completes their activity. They have pledged a maximum donation of \$7,500.

### **Vitalograph, Inc. in Booth 1630**

Vitalograph, Inc. will donate \$1 for each attendee who completes their respiratory quiz. They have pledged a maximum donation of \$100



### **ATS BEAR Cage**

*(Building Education to Advance Research)*

**Sunday, May 21, 2017**

**2pm – 4pm**

**Center for Career Development**

**Walter E. Washington Convention Center, Hall D, (Middle Building, Level 2)**

Hosted by the ATS Drug Device Discovery and Development (DDDD) Committee, the 3rd Annual BEAR Cage (Building Education to Advance Research) competition encouraged early career investigators to submit an innovative clinical or translational research proposal for the opportunity to participate in the live event at ATS 2017. Join us to see the top three finalists competitively “pitch” their proposals to a panel of translational science experts representing academia, industry, and governmental sectors. Come support and cheer on the finalists as they compete for the \$5,000 grand prize! All are encouraged and welcome to attend. For more information, please contact [DDDD@thoracic.org](mailto:DDDD@thoracic.org).

### **2017 BEAR Cage Finalists**

#### **Marcus Y. Chen, MD**

National Heart, Lung, and  
Blood Institute (NHLBI)

*Chest CT at Chest X-ray Radiation Dose*

#### **Sanghyuk Shin, PhD**

UCLA Fielding School of Public Health

*Unmasking Resistance: Impact of Low-frequency Drug-Resistance on Molecular Diagnosis of Drug-Resistant Tuberculosis*

#### **Prema R. Menon, MD, PhD**

University of Vermont Medical Center

*Communicating with Mechanically Ventilated Patients*

# SCIENCE & INNOVATION CENTER

**Sunday, May 21 – Tuesday, May 23 • 7 a.m. – 5 p.m.**  
**Wednesday, May 24 • 7 a.m. – 1 p.m.**  
**Walter E. Washington Convention Center,**  
**Hall D (Middle Building, Level 2)**

The Science & Innovation Center is a forum for scientists and researchers to meet, network, learn, and rest. The Science & Innovation Center is organized by representatives of the All, MTPI, RCMB, and RSF Assemblies.

## DAILY

- Complimentary breakfast served at 7 a.m.
- Light refreshments served at noon
- Informal networking & rest area all day

## SIC 101 SERIES

Interested in a scientific symposium, but need to brush up on the basics before venturing out to the cutting edge? Stop by for the SIC 101 series, where you can learn the basic principles underpinning high profile symposia at ATS 2017 Washington, DC.

### Sunday, May 21

7:15 – 8:00 a.m.

#### Genomics

Blanca Himes, PhD  
University of Pennsylvania

11:15 a.m. – Noon

#### E. Cigarettes and Effects of Lung Immunology

Laura Crotty Alexander, MD  
University of California,  
San Diego

### Monday, May 22

7:15 – 8:00 a.m.

#### Ex Vivo 3D Lung Tissues

Melanie Königshoff, MD, PhD  
University of Colorado, Denver

11:15 a.m. – Noon

#### RNA Seq/Single Cell RNA Seq

Max Seibold, PhD  
National Jewish Health

## SPECIAL EVENTS

### Sunday, May 21, and Monday, May 22

1:15 – 3:00 p.m.

#### Rising Stars of Research

Join the All, MTPI, RCMB, and RSF assemblies in celebrating their Rising Stars. Rising Stars are basic and translational science researchers at the assistant professor or early associate professor level making waves in their fields. Each Rising Star will give a 15 minute presentation on their work with time for Q&A at the end of the session.

### Tuesday, May 23

7:15 – 8:00 a.m.

#### Early Career Professionals Coffee Corner

Mentors and mentees are welcome to talk, collaborate, and caffeinate.

11:15 a.m. – Noon

#### Complementing NIH Funding: Philanthropic Organizations

Katherine L. Tuggle, PhD

Learn how to seek funding from a wider range of sources. Meet representatives from the Cystic Fibrosis Foundation

1:15 – 3:00 p.m.

#### SIC Abstract Awards

Join us to celebrate the best scientific abstracts submitted to ATS 2017 Washington, DC by early career professionals.

## Cough

When air passes out through our voice box with force, a sound is made that we all recognize as a "cough". The act of coughing usually begins with a deep breath in, followed by air leaving the mouth with force. A cough is your body's way of preventing material from entering your breathing tubes (airways) and clearing mucus or foreign material from your airways. Cough is the most common complaint for which patients seek medical care.



A cough is not a disease, but can be a common symptom of different upper and lower respiratory tract diseases. Even if you do not have a lung disease, you may cough.

## What causes a cough?

A cough can happen when something irritates your nerve endings. Labeled cough receptors. These nerve endings are in many areas inside your body, from your head and neck area, to just above your navel (belly button). Inhaling particles, vapors, smoke, fumes, dust, or cold air may irritate these receptors and may make you cough.

## Can a cough spread infection?

Cough can be a way of spreading infection to others. Infection (the flu) and tuberculosis (TB) are examples of infections that can be spread by coughing infected droplets into the air. While a cold virus (the common cold) can be passed on to others by coughing, cold viruses are much more likely to be spread to others by hand-to-hand contact. Hand-to-hand contact is when you shake hands with someone who has the infection or touch something that has the cold virus on it and then your touch your nose or eyes.

To help decrease the spread of infection, you should:

- Cover your mouth and nose with a tissue when coughing or sneezing. You don't want to spread germs to others.
- When a tissue is not available, cough or sneeze into your upper sleeve or elbow, not your hands.
- Dispose of used tissues into a waste basket.
- Avoid spitting as it can cause a risk that may infect others.
- Ask for and wear a facemask when visiting a healthcare facility if you are coughing or have cold symptoms.
- Wash your hands often and for at least 30 seconds using soap and water.
- Use an alcohol-based hand rub (sanitizer) when soap and water are not available.

Is there anything special that I should know about my cough?  
If you have a cough, keep track of how long you have been

that provides vomiting is called pertussis (whooping cough). Such a cough-sound syndrome, according to the CDC, should alert one to the possibility of pertussis. For more information on whooping cough, see the ATS patient information series piece "Pertussis" at [www.thoracic.org/patient](http://www.thoracic.org/patient).

## Acute, Sub-acute and Chronic Cough

There are three time periods to use as you describe how long you have had your cough: acute (lasts less than 3 weeks), sub-acute (lasts 3 to 8 weeks) or chronic (lasts more than 8 weeks and does not let up).

- An acute cough is most often caused by the common cold. This cough usually starts to improve by the third to fifth day. Cough from the common cold usually is not a serious threat to health and usually does not last longer than 3 weeks. People with a cold typically also complain of nasal stuffiness, runny nose, throat clearing, and a sore or scratchy throat. They also may feel like they have mucus dripping down the back of their throat. Acute cough can also be due to inhaling irritants such as pollen or strong fumes. Cough may be the first symptom of inadequate control of asthma. Less commonly, an acute cough can be due to more serious conditions such as pneumonia or heart failure.
- A sub-acute cough most commonly happens after a respiratory infection (often from a virus). Other common reasons for a sub-acute cough are whooping cough (pertussis) and flare-ups of conditions such as asthma, chronic bronchitis, sinusitis or bronchiectasis. When a cough starts to get better but then worsens, you should see your healthcare provider.
- A chronic cough can happen to you for many reasons. Often, it is a combination of reasons that explain why you are coughing. Chronic cough can happen from upper airway conditions such as inflammation (swelling) of the membranes inside the nose (rhinitis) and sinuses (sinusitis) as a result of allergies or infections or from poorly controlled asthma. Cigarette smoking can cause chronic bronchitis and result

## Patient Education Materials Available at the 2017 International Conference

The ATS now maintains over 100 patient education handouts as part of its Patient Information Series. The Series includes a wide variety of pulmonary/critical care/sleep and public health topics including: Bronchoscopy, Pneumonia, Mechanical Ventilation, Oxygen Therapy, Asthma, COPD, PFTs, Sleep Testing, Lung Cancer, VCD, TB, Emergency/Disaster, and Palliative Care. All pieces are available in English and many available in other languages, such as Spanish and Portuguese.

In addition to the Patient Information Series, a new Lung Cancer Screening Decision Aid is now available for free on the ATS Website, with bulk copies available for purchase.

All are encouraged to use these free-access materials, which are published in the ARJCCM, posted on the ATS Website at [www.thoracic.org/patients](http://www.thoracic.org/patients) and can be provided upon request in alternative formats for EMR systems. Stop by the ATS Center in Washington, D.C. to view copies of these materials. Contact Judy Corn, ATS Staff, at [jcorn@thoracic.org](mailto:jcorn@thoracic.org) for additional information or to suggest new topics.

### Official ATS Documents: Informational Opportunities at the 2017 ATS International Conference in Washington, D.C.

If you're developing or interested in developing an Official ATS Document (Statements, Clinical Practice Guidelines, Workshop Reports, or Technical Standards), please consider attending one or more of these opportunities while you are in Washington, D.C. at the ATS International Conference:

- Documents Development & Implementation Committee (DDIC) Workshop/Meeting: Friday, May 19th from 6-9 PM, Renaissance Washington Downtown, Meeting Room 8-9. This session is **required** for all Guideline Panel Chairs and Chairs of new non-guideline projects. The session is **recommended** for Chairs of ongoing non-guideline projects. Please RSVP to John Harmon at [jharmon@thoracic.org](mailto:jharmon@thoracic.org) if you have not already done so. Note: CPG Chairs are required to provide a brief verbal update at this session.
  - ⇒ 6-7 PM – Presentations by DDIC members about the Official Document types, methodological requirements for each, and other practical issues (e.g., conflict of interest management, review, and approval); a light dinner will be served.
  - ⇒ 7-9 PM – Current Guideline Chairs (or their designees) will give progress reports and then troubleshoot informally with DDIC members and ATS staff. New Guideline Chairs will have the opportunity to listen to these reports and learn about the "trials and tribulations" of guideline development from experienced peers.
- Ad Hoc meetings: Whether you are developing or want to develop an official ATS document, you can schedule an appointment with Dr. Kevin Wilson (ATS Documents Editor) or Dr. Jan Brozek (ATS Methodologist). To schedule a meeting, email Kevin Wilson at [kwilson@thoracic.org](mailto:kwilson@thoracic.org) or Jan Brozek at [brozekj@mcmaster.ca](mailto:brozekj@mcmaster.ca).
- Documents Meeting Space: Meeting space will be available to document developers from Sunday-Wednesday; contact Kimberly Lawrence at [klawrence@thoracic.org](mailto:klawrence@thoracic.org) for additional details.
- Guideline Methodology Training Program Information Session: Monday, May 22<sup>nd</sup> from 7-8:30 PM, Renaissance Washington Downtown, Meeting Rooms 12-13-14. Anyone who is interested in learning more about this new training program is welcome to attend. A brief description of the program will be provided, followed by time for questions and answers. A light dinner will be served. RSVP to [kwilson@thoracic.org](mailto:kwilson@thoracic.org) is required. Space is limited.
- Meet the Professors: A Meet the Professors Session entitled "Official ATS Documents: How to Get Involved" is being hosted by Dr. Raed Dweik (Chair of the Documents Development and Implementation Committee) and Dr. Kevin Wilson (ATS Documents Editor) on Tuesday, May 23<sup>rd</sup> from 12:15 until 1:15 pm. Registration is available through the Conference Registration Website.

**ATS Assembly Members Give Generously to the ATS Foundation**

Thank you for participating in the [2016 ATS Assembly Challenge!](#)

The annual challenge taps into the grassroots community — and competitive spirit — of the ATS assemblies in support of the ATS Foundation. This was the closest Challenge yet!



**Eileen G. Collins, PhD**, chair for the Assembly on Nursing, receives Nursing’s Assembly Challenge award from Dean Schraufnagel, MD, ATS Foundation Chair



**Irina Petrache, MD**, chair for the Assembly on Respiratory Cell & Molecular Biology, receives RCMB’s Assembly Challenge award from Dean Schraufnagel, MD, ATS Foundation Chair

The results are: the Assembly on **Respiratory Cell and Molecular Biology** raised the most dollars with \$94,718; **Nursing** had the highest member participation with 20.49 percent; **Allergy Immunology & Inflammation** had the highest number of first-time givers in December with seven new donors.

Many members made gifts supporting the [Research Program](#) and other core programs in the final days of 2016. There was tremendous energy around the Challenge this year, with assembly chairs crafting special messages to their members. Most chairs sent two or more personal emails to their members during the Challenge.

Congratulations to the Respiratory Cell & Molecular Biology, Nursing, and Allergy Immunology & Inflammation assemblies! They will receive special recognition in ATS communications, at ATS 2017, and within their own assemblies.

The ATS Foundation would like to thank all ATS assemblies for their outreach and generosity during the Challenge. You provided a big boost to Foundation year-end giving campaigns—and a boost to our upcoming grant-making capacity for talented investigators. Thank you for your enthusiastic support!

Truly, your energy, creativity, and participation were outstanding. Thank you for everything you do for the ATS, the Foundation, young investigators, patients, and respiratory health worldwide.

To learn more about the ATS Foundation or to make a gift, visit [foundation.thoracic.org](http://foundation.thoracic.org).



**Mitchell A. Olman, MD**, chair for the Assembly on Allergy Immunology & Inflammation, receives All’s Assembly Challenge award from Dean Schraufnagel, MD, ATS Foundation Chair