MESSAGE FROM THE ASSEMBLY CHAIR

Spring is a time for rejuvenation and new beginnings. It is a perfect time to head to a new city for the ATS International Conference. We look forward to welcoming new and returning Respiratory Structure and Function (RSF) Assembly members in Dallas, Texas this May 2019. I am excited to share the reports from our committee chairs and directors and to tell you what we have accomplished as a group since last May.

First, a little bit about our Assembly for those of you who are not familiar with us. RSF was one of the initial assemblies formalized in the 1970s. We join together basic scientists, clinical investigators, and clinicians who share an interest in advancing scientific discovery and patient care. The scope of the Assembly is one of the broadest scientifically and our members have diverse interests. To learn more about what we do as a group and how we do it, please visit our website: https://www.thoracic.org/members/assemblies/assemblies/rsf/index.php. I would be happy to answer any questions that you have as would our Assembly Officers, also listed on the website.

Our membership is as diverse as our interests and this enriches us as a group. In 2018, we were the 4th largest assembly. Thirty-eight percent of us come from abroad. Almost one third of us are women. Thirty-seven percent of us are 40 years old or younger. This segment of our Assembly includes many rising stars who will become the leaders of RSF in the future. We are PhDs and MDs and span the gamut from students and medical trainees to senior faculty. I am proud of our inclusive-ness. RSF is a comfortable scientific “home” for anyone interested in translational biology and clinical approaches to address disease pathogenesis and therapy.

2018-2019 was a year of firsts for RSF. We accepted our first case reports in addition to our traditional scientific abstracts. The total number of abstracts and case reports was similar to the number of scientific abstracts received in 2018. We introduced a new Assembly award: The prestigious Solbert Permutt Trailblazer Award in Pulmonary Physiology and Medicine. Sol was a remarkable physiologist, physician, leader, educator, and mentor who was passionate about science, his trainees, the RSF Assembly and life in general. This award thus honors an established investigator who has done pioneering research in the area of respiratory structure and function and has guided and inspired others in the field.

After several years of planning and development, the “PhD and Basic and Translational Scientists Working Group” officially started in 2019, chaired by our own Blanca Camoretti-Mercado (Past RSF Assembly Chair) with representation from all 14 assemblies. This working group focuses on the career goals of PhD and MD scientists and provides a forum for scientific programming... (Continued on Page 2)
..and networking related to their interests at the International Conference. On the social media front and thanks to the technical prowess of our Web Director, Jade Jaffar and her team, we have started an “RSF Opportunities Board,” which advertises predominantly post-doctoral but also faculty positions. Other new features include “Images of RSF” and “RSF Infographics.” “Images of RSF” confirms that a picture is worth a thousand words and includes graphics that reflect RSF research. The Infographics, created by a junior RSF member, Johanna Uthoff, provide a visual road map for developing a scientific abstract or poster. Another new feature this year is a specific type of podcast called “Perspectives” designed to include the basic science and clinical viewpoints on disease entities, enhancing our translational understanding of respiratory pathobiology.

In addition to new accomplishments, other programs have flourished. The Early Career Professionals Working Group (ECPWG), chaired by Corrine Kliment, has been busy this year planning journal clubs and podcasts. We have collaborated with multiple other assemblies to increase journal club activity. Eric Gartman has been instrumental in this regard. We continue to feature the research of our junior members on the website as our “ECP Highlight.” The Mentoring Program is an ATS-wide venture designed to match junior individuals with “veterans” who can provide them with general career guidance and navigational advice at the International Conference. This year, the RSF Mentoring Program successfully matched 11 mentees with appropriate mentors under the leadership of David Kasahara and other representatives of the ECPWG.

As we head to Dallas this year, we will convene at the RSF Membership Reception and Business meeting. To quote one of our past Assembly Chairs, Reynold A. Panettieri, Jr., the purpose of this gathering is to “inform, inspire and network.” You will receive information about our committees and other activities during the business part of the meeting. In addition, during the reception, we will have an “RSF 101” session in the front of the room where RSF leaders will answer questions and provide insight into the workings of our Assembly. Networking is an important part of the reception and we hope that you will enjoy camaraderie and introduce yourselves to both junior and senior RSF Assembly members. To facilitate this, we will have a type of “speed dating” event during the reception. In a round-robin approach, five junior and five senior members will be paired to briefly chat and then switch partners consecutively. Inspiration is perhaps the most important goal of this event and it will come from you, the membership. We invite you to ask questions, make comments and participate as actively as possible. We want you to be inspired by assembly activities and to bring new ideas to the table. Included in this newsletter is an RSF Assembly Crossword Puzzle Teaser (another first!). We hope it will inspire you to learn who’s who in the Assembly and what some of our interests are. We are a serious group of individuals committed to advancing scientific discovery and patient care but I personally want you to know that we also have a fun side! (Remember the fun in Respiratory Structure and Function).

As a first-year Assembly Chair, I have been supported by a group of strong committee leaders and an involved membership. None of our accomplishments would have been possible without you. I wanted to personally thank the members of the Executive Committee who join me on a monthly call to discuss and plan assembly business.

These individuals include Connie Hsia, MD (Planning Committee Chair), Chun Seow, PhD (outgoing Program Committee Chair), Y.S. Prakash, MD (incoming Program Committee Chair), Jade Jaffar, PhD (Web Committee Chair), Corrine Kliment, MD, PhD (Early Career Professionals Working Group Chair), Jane Bourke, PhD and Sana Siddiqui, PhD (Science and Innovation Center Representatives), Blanca Camoretti-Mercado, PhD (Nominating Committee Chair and Chair of the PhD and Basic and Translational Scientists Working Group), Andrew Halayko, PhD and Reynold A. Panettieri, Jr., MD (Science Core) and my appointees, Robert Brown, MD and Susan Gunst, PhD. I thank you all for your dedication and diligence. I would also like to acknowledge Miriam Rodriguez from ATS for her strong support and guidance during this year. Finally, I have been fortunate to learn from multiple prior Assembly Chairs and I appreciate the insights they have given me. Please join me in congratulating the recipients of this year’s RSF Assembly awards as well as the Stuart J. Hirst Abstract Excellence Award. I also would like to recognize those who have received abstract travel awards. I extend a special welcome to our new apprentices for the Program and Planning Committees. In closing, it is my honor to serve as the RSF Assembly Chair. I look forward to continuing to represent your interests and work with you to have another successful year in advancing the mission of RSF and ATS. I hope that you will become more involved in our Assembly. I welcome your input and encourage you to contact me to introduce yourselves and discuss your ideas.

Gwen Skloot, MD, ATSF
The RSF Planning Committee is charged with reviewing Assembly Project proposals and providing feedback to the applicants prior to final submission to the ATS Program Review Subcommittee. For 2019, three out of four new proposals submitted to the Planning Committee were approved for funding. These are: “Updated Technical Standards for Interpretative Strategies for Basic Lung Function Tests” co-chaired by Sanja Stanojevic, David Kaminsky and Martin Miller (RSF Primary), “Quantitative Imaging Metrics for the Assessment of Pulmonary Pathophysiology” co-chaired by Connie Hsia, Sue Hopkins, and David Lynch as a Joint ATS/Fleischner Society Workshop (RSF primary), and “Workshop on Research Priorities in Central Sleep Apnea” co-chaired by Jeremy Orr and Safwan Badr (SRN primary, RSF secondary). In addition, three renewal proposals were submitted and two were approved: “Standardisation of Spirometry” led by Brian Graham as a joint ATS/ERS technical statement (RSF as primary assembly), and “Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Diseases” led by Darcy Wagner as a workshop report (RCMB primary, RSF secondary). The RSF Assembly continues to lead the state-of-the-art projects in pulmonary function assessment, pulmonary imaging, and structure-function lung biology in collaboration with other ATS Assemblies and scientific societies.

The ATS places great emphasis on supporting project proposals from members. I highly encourage prospective applicants to discuss their ideas with the Planning Committee members by email, phone, or in person at the International Conference to obtain feedback prior to submitting the full application online. You will be able to meet the Planning Committee members at the Assembly Membership Meeting.

The Planning Committee is also charged with reviewing nominations for the Assembly Awards. In addition to the three existing RSF Assembly Awards: the Ann Woolcock Memorial Award on obstructive airways disease for a young investigator, the Joseph R. Rodarte Award for Scientific Distinction, and the Robert Crapo Lifetime Achievement Award in Pulmonary Diagnostics, this year a new RSF award, the Solbert Permutt TrailBlazer Award in Pulmonary Physiology and Medicine, was created to recognize an established innovative investigator and outstanding teacher/mentor. At press time, the nominations are under review. The 2019 awardees will be recognized at the RSF Assembly Membership Meeting at the International Conference.
Submit an Assembly/Committee Project Application for Funding in FY2020!

We are happy to announce that ATS will once again accept NEW Assembly/Committee Projects for FY2020. 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

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 the Assembly Planning Committee Chair Connie Hsia, MD at connie.hsia@utsouthwestern.edu

For questions regarding submissions please contact Miriam Rodriguez at:
tel: (212) 315-8639 or email: Mrodriguez@thoracic.org.

The ATS has a Guideline Methodology Scholar Program that provides hands-on training in guideline development. An informational program is being held on Monday, May 20th from 7-8:30 PM, Hyatt Regency Dallas, Sanger A (Atrium Level). Anyone who is interested in learning more about clinical practice guideline development and the ATS training program that provides a hands-on experience in clinical practice guideline development is welcome to attend. A light dinner will be served. Please RSVP to kwilson@thoracic.org. Space is limited.

Additional information: The field of clinical practice guideline development has changed dramatically over the past decade. Formal standards must now be met as defined by the Institute of Medicine, which include a specific approach to searching for evidence, selecting evidence, summarized evidence, formulating recommendations, and rating the quality of evidence and the strength of the recommendations. The ATS and other guideline developers have learned that to successfully adhere to these standards, a guideline methodologist is necessary on each guideline committee. Clinical practice guideline methodologists are individuals who are capable of leading both systematic reviews (i.e., develop search strategies, select studies, extract data, perform meta-analyses, and construct evidence tables and summary of findings tables) and the formulation and grading of evidence-based recommendations.

The requirement that there be a methodologist on every guideline committee has created an imbalance, with the demand for methodologists far exceeding the supply. As organizations move toward continuously updating guidelines and demand increases, this imbalance will worsen. In order to combat this trend and build methodological capacity, the ATS has a methodology training program that takes individuals who have an interest in learning guideline methodology and places them on a guideline panel that needs methodological support. The trainee does the hands-on methodological work for the panel with guidance from the ATS methodologist and, in return, gains experience and middle co-authorship on the guideline. After working on one or two such guidelines projects, the trainee will likely have the skills necessary to become an independent methodologist. We believe that this is a potential career pathway, particularly well-suited for clinician-educators.

Additional benefits of the program include: a) systematic reviews performed during the development of the guideline are often publishable as independent entities and the trainee would be the first author on such derivatives, b) participation in a methodology training workshop, and c) participation in the Evidence Synthesis Methodology Working Group of the Behavioral Sciences and Health Services Research Assembly. The latter will lead to additional opportunities to participate in various workshops and projects.

Chief, Documents & Medical Affairs
Kevin Wilson, MD
The RSF Assembly has an exciting program lined up for the 2019 ATS International Conference in Dallas: 5 major scientific symposia, 4 mini-symposia and 7 poster discussion sessions covering basic and translational research and clinical application. We sincerely thank the 32 members of the Program Committee who provided high quality peer-review for a balanced, informative and stimulating program for all conference attendees.

RSF Programming Update

RSF received 496 Scientific Abstracts and case reports, as well as 30 Late Breaking Abstracts for review this year. This is the first year that our assembly accepted case reports and many described rare diseases or unusual presentations of disease. You will see from the ATS schedule below the outstanding research that you, the members, bring to the RSF Assembly.

From all abstracts programmed by RSF, we selected the top most meritorious 30 submitted by trainees or fellows-in-training to receive ATS Scholarship Awards, and selected an additional one for the Stuard J. Hirst Award. In addition, 4 abstracts were selected for the LAM (lymphangioleiomyomatosis) Foundation Awards. The winners will be announced at the RSF membership meeting on Monday, May 20th.

The 2019 Basic Science Core Theme is “Cell Lineage and Fate: Implications for Human Lung Health and Disease.” One of the major scientific symposium proposals from our assembly was used as the template for a symposium sponsored by the Science Core Committee.

In selecting chairs and facilitators for the various sessions programmed for the conference, we (the Chair and Chair-Elect of the Program Committee) paid particular attention to ensure diversity in terms of gender, ethnicity, nationality and professional seniority.

Acknowledgement and Looking Forward

As Chair and Chair-Elect of the RSF Program Committee, we would like to thank the many members of our assembly for accepting our invitation to chair and facilitate the programmed sessions for the 2019 ATS International Conference. Success of the conference critically depends on active participation of all members.

If you are interested in joining the Program Committee for 2020, please contact us at Chun.seow@hli.ubc.ca, Pra-kash.ys@mayo.edu. Membership selection is based on the need for balanced representation of expertise and your ability to commit approximately 25 hours for reviewing major proposals in July and abstracts during the month of November. The Program Committee helps to shape the ATS conference and ensures that the highest quality research is presented. For junior RSF members, you can apply to the apprenticeship program as the first step toward joining the Program Committee. For more information, we encourage you to talk to us at the RSF membership meeting on Monday, May 20th.
## ASSEMBLY ON RESPIRATORY STRUCTURE AND FUNCTION SESSIONS

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<tr>
<th>Session Code</th>
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| **Postgraduate Courses**
| **Friday, May 17, 2019**
| PG10 | RESPIRATORY PHYSIOLOGY INTERACTIVE | 8:00 AM - 4:00 PM |
| **Saturday, May 18, 2019**
| PG24 | PULMONARY FUNCTION TESTING IN THE REAL WORLD: 2019 UPDATES ON THE ART AND SCIENCE OF PFT | 8:00 AM - 4:00 PM |
| **Scientific Symposia**
| **Sunday, May 19, 2019**
| A10 | TREATING ASTHMA IN PATIENTS WITH OBESITY: THE NEED FOR A NEW APPROACH | 9:15 AM - 11:15 AM |
| A86 | MECHANOPHARMACOLOGY OF AIRWAY AND AIRWAY SMOOTH MUSCLE | 2:15 PM - 4:15 PM |
| **Monday, May 20, 2019**
| B5 | TILL DEATH DO US PART: CELL FATE AND OBSTRUCTIVE LUNG DISEASE | 9:15 AM - 11:15 AM |
| **Tuesday, May 21, 2019**
| C87 | PHYSIOLOGICALLY-GUIDED MECHANICAL VENTILATION | 2:15 PM - 4:15 PM |
| **Wednesday, May 22, 2019**
| D85 | UNFOLDING CIRCADIAN CLOCKS AND ER STRESS IN LUNG DISEASES | 1:30 PM - 3:30 PM |
| **Workshops**
| **Sunday, May 19, 2019**
| WS2 | ENHANCING GRANTSMANSHIP: UNDERSTANDING THE GRANT REVIEW PROCESS | 11:45 AM - 1:15 PM |
| **Wednesday, May 22, 2019**
| WS7 | CRISPR: BREAKING BAD FOR THE GOOD OF ADVANCING SCIENCE | 11:45 AM - 1:15 PM |
| **Sunrise Seminars**
| **Monday, May 20, 2019**
| SS114 | CARDIAC DISEASE AND BETA RECEPTORS IN COPD | 6:45 AM - 7:45 AM |
| **Tuesday, May 21, 2019**
| SS215 | THE USE OF CARDIOPULMONARY EXERCISE TESTING IN PULMONARY VASCULAR DISEASE | 6:45 AM - 7:45 AM |
| **Wednesday, May 22, 2019**
<p>| SS315 | APPROACH TO DEVELOPMENTAL LUNG ANOMALIES IN ADULTS | 6:45 AM - 7:45 AM |</p>
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<td><strong>Meet The Professor Seminars</strong></td>
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<td><strong>Sunday, May 19, 2019</strong></td>
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<td>MP411</td>
<td>IDENTIFYING MIMICS OF IDIOPATHIC PULMONARY FIBROSIS: HOW AND WHY</td>
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<td><strong>Monday, May 20, 2019</strong></td>
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<td>MP510</td>
<td>BATTLE OF THE BIOLOGICS: UNDERSTANDING TARGETED THERAPY FOR SEVERE ASTHMA</td>
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<td><strong>Tuesday, May 21, 2019</strong></td>
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<td>MP612</td>
<td>FORCED EXPIRATION FOR THE MATHEMATICALLY INCLINED</td>
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<td><strong>Mini-Symposia</strong></td>
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<td><strong>Sunday, May 19, 2019</strong></td>
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<tr>
<td>A19</td>
<td>LESS IDIOPATHIC: STRUCTURAL AND FUNCTIONAL ABNORMALITIES IN IPF</td>
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<td>A98</td>
<td>PHENOTYPING COPD AND PREDICTING THE DISEASE PROGRESSION</td>
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<td><strong>Tuesday, May 21, 2019</strong></td>
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<td>C19</td>
<td>NEW PATHWAYS REGULATING AIRWAY SMOOTH MUSCLE CONTRACTION: POTENTIAL TARGETS</td>
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<td>FOR ASTHMA THERAPY</td>
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<td><strong>Wednesday, May 22, 2019</strong></td>
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<td>D18</td>
<td>BEST OF NOVEL TECHNOLOGIES AND METHODOLOGIES</td>
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<td><strong>Poster Discussion Sessions</strong></td>
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<td><strong>Sunday, May 19, 2019</strong></td>
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<td>A108</td>
<td>PATHOPHYSIOLOGY IN DIFFUSE PARENCHYMAL LUNG DISEASES</td>
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<td><strong>Monday, May 20, 2019</strong></td>
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<td>B29</td>
<td>MECHANISMS FOR AIRWAY HYPERRESPONSIVENESS: FROM CELL TO ORGANISM</td>
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<td><strong>Tuesday, May 21, 2019</strong></td>
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<td>C108</td>
<td>COPD: PHENOTYPE, MECHANISM, AND TREATMENT</td>
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<td>C109</td>
<td>RESPIRATORY MUSCLE DYSFUNCTION: MECHANISM AND ASSESSMENT</td>
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<td><strong>Wednesday, May 22, 2019</strong></td>
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<td>D30</td>
<td>ASTHMA: WHAT'S NEW IN ASSESSMENT AND TREATMENT</td>
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<td>D108</td>
<td>MECHANISM OF LUNG INJURY</td>
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<td>A63</td>
<td>PATHOPHYSIOLOGY OF ASTHMA IN CELLS, TISSUES, AND ANIMAL MODELS</td>
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<td>A64</td>
<td>CLINICAL ASTHMA: ASSESSMENT AND TREATMENT</td>
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<td>A65</td>
<td>OBESITY</td>
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<td>A66</td>
<td>LYMPHANGIOLEIOMYOMATOSIS (LAM)</td>
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<td>A67</td>
<td>ALTITUDE AND EXTREME ENVIRONMENT</td>
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<td>A68</td>
<td>NEW TECHNIQUES, METHODOLOGIES, AND MATHEMATICAL MODELING</td>
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<td>B63</td>
<td>ANIMAL MODELS OF COPD</td>
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<td>B64</td>
<td>COPD: MECHANISM AND TREATMENT</td>
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<td>C65</td>
<td>DIFFUSE PARENCHYMAL LUNG DISEASES: BASIC AND CLINICAL STUDIES</td>
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<td>C66</td>
<td>MECHANICAL VENTILATION</td>
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<td>C67</td>
<td>LUNG FUNCTION TEST</td>
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<td>C68</td>
<td>SLEEP DISORDER</td>
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<td>C69</td>
<td>LUNG CANCER</td>
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<td>C70</td>
<td>NEONATAL AND PEDIATRIC LUNG DISEASE</td>
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<td>C71</td>
<td>PULMONARY HYPERTENSION</td>
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<td>C72</td>
<td>CASE REPORTS OF RARE DISEASES</td>
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ATS 2019 INTERNATIONAL CONFERENCE
ADDITIONAL SESSIONS OF INTEREST TO RSF ASSEMBLY

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<th>Session Code</th>
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<tr>
<td>PG3</td>
<td>A RESEARCHER'S GUIDE TO INTEGRATING THE PULMONARY 'OMICVERSE</td>
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<td>PG9</td>
<td>FUNCTIONAL ASSESSMENTS IN LUNG DISEASE: STRENGTH, ACTIVITY AND CARDIOPULMONARY EXERCISE TESTING WITH CASE CONFERENCE</td>
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<td>PG17</td>
<td>A PHYSIOLOGIC APPROACH TO MANAGEMENT OF SHOCK</td>
<td>8:00 AM - 4:00 PM</td>
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<td>PG19</td>
<td>RESPIRATORY PHYSIOLOGY OVER THE LIFESPAN: WHEN IT'S RIGHT AND WHEN IT'S NOT</td>
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<td>PG25</td>
<td>VENTILATORY COMPLICATIONS OF HEART FAILURE</td>
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**Scientific Symposia**

**Sunday, May 19, 2019**

| A5           | CELL FATE DETERMINATION IN THE LUNG IN HEALTH AND DISEASE: LOCATION AND NEIGHBORS MATTER | 9:15 AM – 11:15 AM |
| A85          | LIVING AND DYING BY LIPIDS: RESOLVING INFLAMMATION AND TEMPTING CELL FATE         | 2:15 PM – 4:15 PM  |
| A90          | ICU-ACQUIRED WEAKNESS: A RAPID-FIRE DISCUSSION OF EMERGING ISSUES AND NEW INSIGHTS | 2:15 PM – 4:15 PM  |

**Monday, May 20, 2019**

| B2           | ENDOBRONCHIAL VALVE TREATMENT IN PATIENTS WITH ADVANCED EMPHYSEMA: ITS TIME HAS COME | 9:15 AM – 11:15 AM |
| B85          | THEY’VE GOT THE BEAT: CILIA IN DEVELOPMENT AND DISEASE                           | 2:15 PM – 4:15 PM  |

**Tuesday, May 21, 2019**

| C85          | SCIENTIFIC BREAKTHROUGHS                                                        | 2:15 PM – 4:15 PM  |

**Wednesday, May 22, 2019**

| D83          | NEW ADVANCES IN THE BRONCHOSCOPIC DIAGNOSIS AND TREATMENT OF LUNG CANCER        | 1:30 PM – 3:30 PM  |
| D87          | BEYOND THE RIGHT HEART CATHETERIZATION: QUANTITATIVE METHODS FOR INTERROGATING THE PULMONARY CIRCULATION | 1:30 PM – 3:30 PM  |
| D88          | NEW-TROPHILS: AN OLD CELL WITH NEW TRICKS IN LUNG DISEASE                      | 1:30 PM – 3:30 PM  |
| D89          | CONTROVERSIES IN PEDIATRIC PULMONOLOGY                                         | 1:30 PM – 3:30 PM  |
We are excited about another busy year for the Early Career Professionals Working Group (ECPWG)! The ECPWG helps graduate students, postdocs, clinical fellows and junior professionals advance in their careers by offering workshops, a mentoring program, and other tools to maximize exposure at ATS and in the scientific community. The working group is composed of early career professionals spanning 3 continents and a wide variety of backgrounds.

We organized two workshops for ATS 2019:

- **WS2 – Enhancing Grantsmanship: Understanding the Grant Review Process**
  Sunday, May 19th from 11:45AM to 1:15PM (registration required). This workshop will explore the NIH and non-federal grant review processes and scoring, including pitfalls and common mistakes in applications. The session will include a mock review panel.

- **WS7 – CRISPR: Breaking Bad for the Good of Advancing Science**
  Wednesday, May 22nd from 11:45AM to 1:15PM (registration required). This workshop will feature speakers on understanding CRISPR/Cas9 gene editing technology, its rapid development and its applications for advancing respiratory science.

The RSF Mentoring Program had 11 successful pairings this year. The Mentoring Program allows students and trainees to receive advice and guidance from mentors already established in their careers. Mentee-Mentor pairs have a dedicated space at the ATS international conference for face-to-face meetings, which has been very helpful in facilitating the networking. The program is currently run by David Kasahara, Michael O’Sullivan and Tiziana Cremona. We are always looking for new mentors and mentees. Please contact the ATS Coordinator for Assembly Programs, Nicole Feijoo, nfeijoo@thoracic.org for more information.

We have also developed several other initiatives aimed at assisting ECPs in their careers:

- We developed infographics for guidance with abstracts, posters and journal clubs. The RAPiD Poster Session guide was distributed ATS-wide!

- We completed the application cycle of the Apprenticeship program and welcome Jacelyn Peabody and Laura Walkup, as next year’s RSF Apprentices to work closely with and learn from the Programming and Planning Committees. Congratulations!

- Abstract Writing Guide: This is a step-by-step guide for writing an abstract and navigating the submission process to ATS to maximize the exposure of your research. The guide can be found here: https://www.thoracic.org/members/assemblies/assemblies/rsf/resources/rsf-abstract-writing-guide-2018.pdf

- We continue to showcase the research of our junior members via the ECP Highlights on our website. We encourage you to take advantage of this avenue to feature your work. http://www.thoracic.org/members/assemblies/assemblies/rsf/ecp-highlights/

- We assist the RSF Web Committee with development of podcasts, journal clubs and social media with ongoing active posting.

If you would like to get more involved with the RSF ECPWG, please do not hesitate to contact me (ckliment@pitt.edu).
This half decade program was created to foster a productive interaction between junior ATS members (graduate students, post-docs, fellows, and junior faculties) and senior members of ATS (faculty members, industrial PIs, etc.) for mentoring and coaching on ATS programs, career development, scientific advice, collaborations, etc. The participants (mentors and mentees) enroll via a short questionnaire and CV or Biosketch to a particular ATS assembly mentorship program. The mentors and mentees are paired carefully through a matching algorithm followed by a careful curation by members of each assembly mentorship program. The committee expect that mentors and mentees start to communicate before, during and after ATS International Conference. At the conference, several venues are available to promote this interaction, including social hours before the Assembly Business meeting, dedicated lounge for the program, and happy hours organized by ATS.

On Behalf of the ATS RSF Mentorship Program,

David Kasahara, PhD

Committee Member, RSF Early Career Professionals Working Group
At the May 2016 Board of Directors (BOD) meeting, ATS immediate past-President Atul Malhotra established a task force group comprised of the Assembly Chairs of RSF, RCMB and AII. The charge was to focus on the society’s PhD members to identify their concerns, develop ways of increasing ATS value delivered to them, and improve their overall ATS experience.

During the following year, approximately 30 members exchanged ideas and reviewed statistics to better understand the state of PhD members. At the 2017 ATS International Conference (IC), members convened to further discuss issues and strategize to advance the mission. The group concluded that PhD members most valued the opportunities that the IC and the Society offered for professional advancement and resume building. PhD members were dissatisfied with the costs of attending the IC, limited programming for basic scientists, and inadequate activities for non-clinician scientists outside the IC. Competition with other high-quality, less expensive scientific meetings was also frequently cited. To gain broader input, the group sought to partner with other bodies including the Science and Innovation Center (SIC), the assemblies’ Program Committees, the Basic Science Core Working Group, the ATS Journals, and the ATS Planning and Evaluation, Education, MITT, and Membership committees. A society-wide survey for needs assessment was planned. Importantly, making the group an official ATS entity was considered essential to ensure the time and resources necessary to accomplish the goals and guarantee continuity. In May 2017, the BOD expressed strong support for the work of the group after reviewing their conclusions.

The “First Reception for PhDs & Other Basic Science Researchers,” sponsored by the SIC, was held during the ATS 2018 IC and was attended by over 120 individuals. A questionnaire, completed by 56 attendees (about 49% trainees and 28% ECPs) showed that the majority of responders viewed costs as an obstacle to attending the IC, felt that opportunities for career advancement and networking were the main reasons for going to the IC, etc.

(Continued on Page 13)
...and expressed a need for more sessions targeted to research post-docs and graduate students. The group followed up with 16 responders who expressed their interest in getting more involved with the Society.

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The “PhD and Basic and Translational Scientists Working Group” officially started in 2019, chaired by Blanca Camoretti-Mercado (RSF), and co-chaired by Tom Mariani (RMB) and Beth Moore (AII). The Working Group has members from all 14 assemblies, and its name highlights the inclusion of all scientists. It has sponsored webinars organized by the Section on Genetics and Genomics on the LungMap project and promoted the participation of PhDs in the new Fellow to Faculty Bootcamp. The Working Group helped the SIC Committee plan the upcoming second reception at the 2019 IC in Dallas on Sunday from 3-5 pm. We welcome everyone to attend!

**Second Reception for PhDs & Other Basic Science Researchers**

The ATS is pleased to invite members to attend the “Second Reception for PhDs & Other Basic Science Researchers” to be held at the ATS International Conference on Sunday, May 19th from 3-5pm. The reception will be held in the Science and Innovation Center. There will be food provided and activities during the event will include an opportunity to get to meet and network with other scientists, to engage with leaders from the ATS and assemblies and to provide feedback regarding activities or programs that ATS could offer to benefit the basic and translational science members.

Trainees are especially welcome and encouraged to RSVP and attend!!

Register here

In addition, be sure to check out the entire program in the Science and Innovation Center (SIC) which will be available on the ATS international meeting mobile app.
Center for Career Development (CCD)

Sunday, May 19 – Tuesday, May 21, 2019  7 a.m. – 5 p.m.
Wednesday, May 22  7 a.m. - 1 p.m.
Kay Bailey Hutchison Convention Center Dallas
Hall B (Level 2)

The Center for Career Development is a professional networking and career development forum for early career professionals (medical students, residents, fellows, post docs, other allied healthcare and research professionals) in training or transitioning from training in Pulmonary, Critical Care or Sleep Medicine. Each day, the CCD features informal workshops aimed at enhancing the professional development for all health care professionals. The sessions in the CCD are a unique and valuable opportunity for YOU to interact with experts in PCCM and have your questions answered about career development topics that are important to you!

See the schedule [here](#).

Best of ATS Video Lecture Series (BAVLS)

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

For more information, please visit: [https://www.thoracic.org/professionals/clinical-resources/video-lecture-series/index.php](https://www.thoracic.org/professionals/clinical-resources/video-lecture-series/index.php)
In 2018, the ATS tasked Assemblies with creating more original content for our social media presence with the specific aim of encouraging interaction between ATS members. This mandate was particularly pertinent to the RSF Assembly as one third of our members are aged 40 and under. Therefore, we created a space on our social media platforms (the RSF website, Facebook page and Twitter) that serves as an information hub. In addition to regular postings of current/upcoming RSF events, we have begun to offer several streams of original content on our platform to both entertain and inform our members.

Podcasts
https://www.thoracic.org/members/assemblies/assemblies/rsf/podcasts.php

Images of RSF
https://www.facebook.com/pg/atsRSF/photos/?tab=album&album_id=598993120231305

RSF Infographics
https://bit.ly/2FHx8sr

RSF Opportunities Board
https://www.thoracic.org/members/assemblies/assemblies/rsf/rsf-opportunities-board/

Podcasts have been a staple since 2016 and are moderated by RSF Early Career Professionals (ECPs). The themes of our podcasts include the “Ask the Inventor” and the “Perspectives” series where an ECP interviews a senior RSF member on a technique/topic of their choice. Both series aim to put historical context into state-of-the-art scientific findings in a conversational atmosphere. The next podcast to be released features Maria Padilla speaking on “Perspectives: Vascular Damage in ILD.” Future podcasts in current production include “Geographical Migration in the Sciences,” where we tackle how the logistics of moving around as a researcher impacts ones’ career and family.

“Images of RSF,” “RSF Infographics,” and the “RSF Opportunities Board” are brand new features of the Web Committee that are primarily displayed on the RSF Facebook page. “Images of RSF” is a collection of RSF-related graphics to showcase the artistic side of respiratory research. Our first two “RSF Infographics” represented engaging visual guidelines on how to present a RAPiD poster and how to moderate this type of session at the ATS Conference. The “RSF Opportunities Board” collates job postings and collaboration opportunities for the RSF membership.

Original content production would not have come together without the following RSF member volunteers who contributed throughout the year: Jacelyn Peabody (“Ask the Inventor” podcast moderator), Sana Siddiqui (“Geographical Migration” podcast moderator), Johanna Uthoff (RAPiD Poster infographics), and Mariam A. Ba (Media Manager). I would also like to express my gratitude to the interviewees of our podcasts and to those who have advertised on our Opportunities Board. Without such volunteers, we would not be able to provide novel content.

If you are interested in producing any type of original content, we can work with you to make it possible. Please forward your ideas to me and let me know if you would like to become more involved (jade.jaffar@monash.edu).

Be sure to follow us at @ATS_Assemblies for news on webinars, deadlines, and other things you might have missed in your inbox!
The Science and Innovation Center (SIC) was established in 2012 as a networking center at the ATS International Conference (IC) to provide a researcher counterpart to the Clinician Center. Planning for the activities of the SIC is managed by the SIC Committee, with representatives from RSF (Jane Bourke and Sana Siddiqui), Respiratory Cell and Molecular Biology (RCMB), Pulmonary Infections and Tuberculosis (PI-TB), and Allergy, Immunology and Inflammation (AII) Assemblies and from the ATS PhD and Basic and Translational Scientists Working Group.

Planning for the 2019 Meeting occurred throughout the year with regular teleconferences, providing opportunities for the Committee to reflect on the strengths of the program over the last few years, and to identify ways to improve content and engagement, particularly in relation to promotion of the SIC as a valuable resource for researchers attending the IC.

This year, the SIC will provide a venue for both professional and social networking and will be open from Sunday May 19 – Tuesday May 21. Each day, complimentary breakfast will be served at 7 am and Lunch & Learn sessions will also offer a light lunch.

Program highlights include:

**Reception for PhDs & Other Basic and Translational Science Researchers - Sunday, May 19, 3–5 pm**
The highly successful reception is on again this year, and provides a great start to the meeting and the perfect opportunity to connect with friends and colleagues.

**SIC Awards session - Sunday, May 19, 12-3 pm (RSF Awards 12:45 – 1:30 pm)**
This session is a focal point of the SIC program and your attendance to support the RSF winners as they receive their awards and give a mini-presentation with Q&A is encouraged. Awards will be given to two of the Assembly’s Rising Stars (still to be determined). The best RSF abstract by an Early Career Professional (ECP), based on the criteria of scientific quality and innovation, will be awarded to Jinho Kim for “Donor Lung Regeneration Through Selective Replacement of Damaged Airway Epithelium.”

**ATS 101 Imaging, followed by Lunch and Learn – Monday, May 20, 10:15-11 am, 11-11:45 am**
The RSF representatives on the SIC Committee have developed the ATS 101 Imaging session, which will cover applications of ex vivo Precision Cut Lung Slices to visualize intrapulmonary airway reactivity (Yan Bai) and in vivo micro Optical Coherence Tomography (Steven Rowe). Attendees will be able to discuss the application of these techniques with presenters during the Lunch and Learn session. Other topics in the ATS 101 series to be presented by leaders in the field include Cell Fate, RNA-Seq, and Neural Control of Inflammation.

**5th Annual Bear Cage Competition - Monday, May 20, 1-3 pm**
The ATS Drug Device Discovery and Development (DDDD) Committee has selected three finalists to pitch their highly innovative research proposals to a “Bear (Building Education to Advance Research) Cage” panel of translational science experts representing academia, industry, and governmental sectors and a live audience. The panel, with audience participation, will vet these proposals and ask questions of each presenter before awarding a $10,000 prize to the winner, and $2,500 to each of the two runner-ups.

**Career Development – throughout program**
As detailed in the full program, a wide range of presentations are scheduled to support investigators at all stages of their career. Topics include Navigating ATS, Setting Up a Lab, From Innovative Ideas to Clinical Trials, Working with Industry, Mentorship and Building a Track Record. The breakfast session on Tuesday will be the ECP Coffee Corner, allowing attendees to meet with representatives from Early Career Working groups from RSF, AII, RCMB, and PI-TB.

Estimated attendance at the SIC has increased each year since its inception, with ~1000 visits over 3 days in 2018. This is a strong indication that conference attendees view the SIC as a great place to rest, eat, and mingle, as well as to hear cutting edge science from experts and from the research leaders of the future. The schedule of events will be featured in the main program and the ECP Road Map for the IC as well as on the ATS App, so we anticipate that attendance will increase further in Dallas.

We highly recommend that you visit the SIC at the 2019 ATS International Conference to benefit from presentations and events planned for a researcher audience and also to support the worthy award recipients from our Assembly.

Please contact us if you have any questions (jane.bourke@monash.edu; sanathemcgillian@gmail.com).
The Science & Innovation Center, located at the Kay Bailey Hutchison Convention Center Dallas, Hall B (Level 2), is a forum for scientists and researchers to meet, network, learn, and rest. The Science & Innovation Center is organized by representatives of the Assemblies on: Allergy, Immunology and Inflammation (AII), Pulmonary Infections and Tuberculosis (PI-TB), Respiratory Cell and Molecular Biology (RCMB), and Respiratory Structure and Function (RSF).

**DAILY:**

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

<table>
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<tr>
<th>Sunday, May 19</th>
<th>Monday, May 20</th>
<th>Tuesday, May 21</th>
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| 7:15 - 8:00 a.m.  
ATS 101: Cell Fate  
Jason Rock, PhD, Boston University | 7:15 - 8:00 a.m.  
ATS 101: Neural Control of Inflammation  
Brenda Marsh, MD, PhD, OHSU | 7:15 - 8:00 a.m.  
Early Career Professionals Coffee Corner |
| 8:15 - 9:15 a.m.  
Navigating ATS  
Julie Ledford, PhD, University of Arizona | 8:15 - 9:15 a.m.  
Setting up a Lab  
Phil Verhoef, MD, PhD, University of Chicago | 8:15 - 9:15 a.m.  
Mentorship: A Key to Success  
Laura Crotty-Alexander, MD, University of California at San Diego  
Anne Sperling, PhD, University of Chicago |
| 9:15 - 10:00 a.m.  
PRDS Orientation | 9:15 - 10:00 a.m.  
Hiring Lab Management  
Chad Steele, PhD, Tulane University | 9:15 - 10:00 a.m.  
Building Your Track Record for Career Success  
Greg Downey, MD, National Jewish Health |
| 10:15 - 11:00 a.m.  
ATS 101: RNA Seq  
Jay Kolls, MD, Tulane University  
Naftali Kaminski, MD, MD, Yale University | 10:15 - 11:00 a.m.  
ATS 101: Imaging  
Yan Bai, MD, Harvard University  
Steven Rowe, MD, University of Alabama | 10:15 - 11:00 a.m.  
ATS Foundation Grants  
Erin Marie Nebel, ATS |
| 11:00 - 11:45 a.m.  
Lunch & Learn: RNA Seq Data | 11:00 - 11:45 a.m.  
Lunch & Learn: Imaging | 11:00 - 11:45 a.m.  
NIH Grants/Working with Industry  
Taylor Cohen, PhD, MedImmune  
Lora Reineck, MD, NIH  
Ghenima Dirami, PhD, NIH |
| 12:00 - 3:00 p.m.  
Rising Star and SIC Abstract Awards | 12:00 - 12:45 p.m.  
From Innovative Ideas to Clinical Trials  
Hector Ortega, MD, Gossamer Bio  
David Lagares, PhD, Harvard  
Tim Watkins, MD, Gilead | 12:00 - 12:45 p.m.  
Lunch & Learn: Grants and Funding |
| 3:00 - 5:00 p.m.  
PhD and Basic Science Reception | 3:30 - 4:30 p.m.  
Minority Trainee Development Scholarship Reception | 3:00 - 4:30 p.m.  
Relax and Recharge |
RSF Crossword Puzzle Teaser: $50 amazon gift card to be awarded to the winner!

Eligibility: This is intended for students/trainees (both PhDs and MDs). If you are an Assistant Professor or above you are not eligible.

Instructions:
Complete the puzzle and email your results to me at gwen.skloot@nsrn.edu. The first individual to email me a successfully completed puzzle wins the gift card. Good luck and have fun!

Across
2 We are interested in both smooth and striated
4 Current Assembly Chair
5 From the land down under, his last name is quite royal
7 Our "All American Journals"
8 First name of prior Assembly Chair (It means "white" in a different language)
12 Type of award trainees hope to get for their abstract
13 First name of Vermont scientist interested in obesity and asthma
15 Fredberg studied its binding characteristics and was not perturbed.
19 She's the "glue" who holds the assemblies together
21 Assembly chair in 2013 (his last name is also a color)
22 This Canadian bioengineer and his former mentor from Boston both have the same first name only spelled differently
23 A twitchy topic that RSF loves
1 First name of the leader of planning; she's from Dallas
3 Name of the "better half" of incoming Program Committee Chair
6 Co-author of first paper on study of deep inspiration in humans in 1961
7 Physiologist, born in Texas (award named after him)
9 Gary Sieck studies this
10 RSF Trailblazer
11 Jewel of a name that fits our Web Director
14 Award for young investigator working on obstructive lung disease
16 Proposed site for ATS 2020
17 Hot topic in RSF (Hoffman is one member interested in it)
18 Pare and Macklem, two RSF giants share this first name
20 From Canada, a "core" member
Donate $100 to the ATS Foundation Research Program and receive a pair of ATS-branded lungs as a token of thanks! Donors will be recognized with a picture and a mention on the ATS Instagram account.

Donations are being accepted at the ATS Center, booth #2726 in the Exhibit Hall (Hall D). Center Hours are: Sunday, May 19 to Tuesday, May 21st from 10:30 a.m — 3:30 p.m

Spread the Word: Apply for a Research Grant

Last year, ATS awarded 30 grants totaling $1.6 million. 2019 cycle is now open, offering 15 unrestricted grants, 1 grant specifically for nurses, and more!

Deadline to submit an LOI is Monday, June 17, 2019
Visit: thoracic.org/go/researchgrants
Want to know how the ATS Assemblies and Committees really work?
Would you like to get more involved?

This is your chance! You can now register here to become more involved in the ATS Assemblies, ATS Committees or both. There are many ways to grow within ATS and the Assemblies and Committees are a great starting point.

www.thoracic.org/go/get-involved

Assembly on Respiratory Structure and Function Membership Meeting

Monday, May 20th
4:30pm-7:00pm

Hyatt Regency, Dallas

Landmark C

Lobby Level
Step up to the Third Annual ATS Walking Challenge.

Every step helps raise money for the ATS Foundation. The top 3 overall steppers win a prize and 3 randomly selected participants reaching the 30,000 step goal win a prize. Watch it all unfold on leaderboards in the Mylan, Inc. booth #4333 or at the ATS Walking Challenge booth.

The first 2,000 registrants receive a free ATS wireless activity tracker to use with the App (distributed on a ‘first-come, first-served’ basis). The App also supports attendees that prefer to use their own FitBit, Jawbone or iPhone/Android smart phone step counters.

The three individuals who log the most steps win an Ipad Air.

Three randomly selected individuals reaching the 30,000 step goal win Bose QuietControl 30 Wireless headphones!

Visit the Mylan, Inc. booth #4333 each day for a step booster.

The more you visit, the more you receive:

**Day 1 - 500 steps; Day 2 - 750 steps; and Day 3 - 1,000 steps.**

**Walk for a good cause!** For every participant who walks 30,000 steps, Mylan, Inc. will make a donation of $100 to the ATS Foundation, for a total maximum donation of $50,000. Learn more at [Foundation.Toracic.org](http://Foundation.Toracic.org).