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Respiratory Structure and Function

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MESSAGE FROM THE ASSEMBLY CHAIR

Since its creation as a pioneering assembly in 1979, RSF has been a core unit of ATS, its strength being drawn from the bottom up from its members. In an analogy to the lung, the 14 ATS Assemblies are a conduit of fresh air, the means of *exchange* of ideas, giving that *breath* for our members to grow and for the world to be healthier. RSF is perhaps the broadest assembly scientifically, and it homes a rich mix of senior and junior scientists and clinicians; almost 40% are international members. RSF remains strong, and in 2018 we became the 4th largest assembly. This exciting news is part of a remarkable series of achievements described below that we initiated in May 2016.

Abstracts submission to the ATS International Conference that had been in decline for several years have skyrocketed in 2017 and 2018. We had not only reached but surpassed the numbers we enjoyed in 2010! Many factors had contributed to this success including the hard work of the members of the Program Committee led by Drs. Hackett and Seow, and the strategic actions taken by our assembly in improving the abstract categories organization and our Writing Abstract guide as well as persistent communication with our membership. Another important milestone that I am looking forward to will enhance further submissions to RSF, is the acceptance of reviewing Case Reports. Let's continue this momentum, making sure to submit your abstract for ATS 2019 selecting RSF as your reviewing assembly so we can better program our favorite conference sessions for our members!

Last year I encouraged members to take ownership in the assembly, exercise their right, and participate in the elections of RSF and ATS officers. I want to congratulate you for a terrific 20% increase in RSF member voting in the 2017 elections. The Nominating Committee chaired by Dr. Bill Gerthoffer secured a pool of outstanding candidates, and the election results will be announced during the Membership Meeting. If you did not receive the announcement for voting, let us know and make sure to update your member profile with current contact information. Details of our Assembly can be found on our website (<http://www.thoracic.org/members/assemblies/assemblies/rsf/>).



Blanca Camoretti-Mercado, PhD



Scientific abstracts reviewed by RSF from 2010 to 2017. Note the sharp increase during the last two years.

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MESSAGE FROM THE ASSEMBLY CHAIR (Continued)

Junior, trainees, and new members have special attention in the efforts and decisions of the RSF Executive Committee. These colleagues are the future of RSF and the ATS, and they belong to one of the vulnerable fragments of our professional society. We have continued planning activities by and for this population under the leadership of Dr. Gijs Ijpma, chair of the Early Career Professionals Working Group (ECP WG) in association with the Web Committee, led by Dr. Sana Siddiqui. For example, a workshop on big data targeted at junior investigators has been programmed for Tuesday; all RSF abstracts sessions at the conference will have a junior colleague as a facilitator (and many sessions will have an international member as a facilitator as well); and junior investigators have hosted all the podcasts the Web Committee produced in 2017. The highlights of RSF junior members on our website has become a popular feature. We are proud that this was an initiative championed by RSF and will likely be modeled by other assemblies. If you would like to be featured in Highlights, contact the ECP WG.

Whether you have a great topic idea, have identified a recent discovery, an emerging or unmet need in the field or in the scientific community, I encourage you to submit a session proposal for ATS 2019. In the preparation, consider that the Basic Science Core theme will be on cell lineage and fate in health and disease. Another great opportunity for junior and mid-career and senior colleagues is to submit a Sunrise or Meet the Professor Seminar proposal to present at the conference. These are clear mechanisms by which RSF members can shape the International Conference. On an additional note, RSF has been a visible partaker of the successful program “Lung Disease Week at the ATS” organized by the ATS Public Advisory Roundtable. I have contributed to Asthma week in 2017 and to LAM week in 2018, bringing important patient issues to the front of ATS’ agenda.

I informed you in the *2017 RSF Spring Newsletter* about the creation of the **PhD Working Group** formed by the ATS Board of Directors (BoD) with the Chairs of the RSF, AII and RCMB assemblies. Our charge was to identify issues that concern PhDs, how to improve PhDs’ experience within ATS, and how to increase the value provided by ATS. We held a productive working luncheon at ATS 2017 from which concrete ideas emerged including the organization of a reception for PhDs at the conference, generation of a survey of PhDs to establish needs assessment, increasing the representation of PhDs in ATS committees at large, and improving the content of the International Conference. If you want to make a difference, I urge you to reach to me or to Drs. Alastair Stewart or Janette Burgess, whom I asked to also represent RSF in the Working Group. In May 2017, I presented the report to the BoD which was very well received. Moreover, we have strategically reached out to other interested bodies and have created lines of communication and collaboration with the Science and Innovation Center (SIC) and the Research Sub-committee of the ATS Education Committee. As result of these interactions, do not miss the report below from Dr. Jane Bourke, the RSF representative to SIC, about the first **Reception for PhDs & Other Basic Science Researchers** on Sunday, May 20 from 3:30 pm – 5:00 pm.

During the last two years, we have inquired and listened to our members regarding the RSF dinner / reception held after the Membership Meeting. The loss of industry sponsorship in the early 2010’s plus a persistent unfriendly funding environment have contributed to increased costs and inability of many colleagues to attend. In response to feedback received, the Planning Committee led by Dr. Reinoud Gosens has decided for ATS 2018 to substitute the post-membership reception with an extended **Pre-Membership Meeting** on Monday, May 21. There will be an informative gathering for new and junior members as well as the usual networking opportunity for the entire RSF membership, starting at 4:30 pm. I personally invite you to join us and enjoy good company, food and drinks, introduce yourself, and get to know new people, potential collaborators and senior colleagues. After these events, we will have the **Membership Meeting** at 5:30 pm. You will learn about both the activities done and the plans of the various RSF committees, whose summary reports are below. We will present our prestigious Rodarte, Woolcock, Hirst, and Crapo awards. Also presented will be the RSF Abstract Scholarships for trainees and other commendations. Most importantly, bring your ideas, questions, complaints and comments. Tell us what we are doing right and what we are missing. Engage with the life of your assembly. The challenges our assembly faced when I became Chair in 2016 were historic declining number of submitted abstracts, a new unfavorable abstract categories reorganization, and a presumptive needed of self-inspection to revisit our mission and enhance our relevance in the ATS, seem to have been managed. RSF deserves what we accomplished together, and let’s keep working for further improvement. This is why it is vital for the health, innovation, and stamina of RSF that you voice your opinion at the membership meeting and volunteer to get involved. All science contributions are valuable, and you will be building your academic and professional resume while making new collaborations and friends. Last but not least, let’s also congratulate our past assembly chair Jeff Fredberg who is a recipient of the ATS Recognition Award for Scientific Accomplishments, and all RSF members who support his nomination.

It is with this spirit of accomplishment and challenge, and excitement that I pass leadership on to RSF Chair-Elect Gwen Skloot in May. She inherits excellent initiatives and momentum, a tremendous membership, and a terrific Executive Committee. I want to express my gratitude to the ATS staff led by Miriam Rodriguez, all members of the different RSF committees and to acknowledge the efforts of outgoing officers: Bill Gerthoffer, Reinoud Gosens, Tillie Hackett ...

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... Gijs Ijpma, and Sana Siddiqui, as well as my appointees Andrew Halayko, Rey Panettieri, and Julian Solway. These individuals have volunteered their time and talents to advance our mission and served admirably with hard work, enthusiasm, and dedication for the last 12 or 24 months. Thanks also to those who will take lead positions in RSF: Chum Seow (Program Committee chair), Connie Hsia (Planning Committee chair), and Jade Jaffar (ECP WG chair). My appreciation also extends to the outgoing and incoming members of our committees – you are the essential pillars of our Assembly. And deep thanks to those members who agreed to stand for election for some key positions in the Assembly in 2017.

In closing, it has been one of my greatest honors to be RSF Assembly Chair during the past two years and served RSF members in this capacity and to the ATS as a BoD member. I am humbled and grateful for your trust in electing me, and for your support and commitment to our Assembly and Society. Immersed in rich diversity and with innate energy and vast talent, I have no doubt that RSF will continue to thrive and have strong representation and impact at the ATS conferences and the ATS at large. I look forward to seeing you in sunny San Diego!

PLANNING COMMITTEE REPORT

Reinoud Gosens, PhD, Chair

The RSF Planning Committee has participated in the generation and review of new ATS Assembly Projects for 2018-2019. I am happy to report about the projects for which RSF was the primary or secondary assembly that were recently selected for funding by ATS. Two new projects were approved. The proposal, “Updated Technical Standards for Spirometry”, for which RSF was primary assembly, was led by Dr. Brian Graham as an ATS project / ERS Task force that will be published as a technical statement. A second project, “Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Diseases: Official ATS Workshop Report”, for which RSF was secondary assembly, was led by Dr. Darcy Wagner aiming to produce an official ATS workshop report. Two projects were approved for renewal. “Reporting Spirometry: An ATS Technical Standard” will render a technical statement led by Dr. Bruce Culver and a team of specialists; the project is co-sponsored by the assemblies on Clinical Problems and Pediatrics. The “ATS/ERS Statement on Technical Standards for the Forced Oscillation Technique” project is co-sponsored by the assembly on Pediatrics and led by Dr. Gregory King. RSF is the primary assembly for both these renewal projects. Clearly, RSF takes the lead in several technical standards in the area of spirometry testing and reporting.

Due to a large number of submissions, ATS could not support all projects submitted by RSF and other assemblies. Constructive feed-back was received and several new projects will be prepared for submission for 2019-2020. To this end, the committee has identified scientific areas of interest for RSF, and ATS has requested input from our assembly chair. The committee always encourages prospective applicants to discuss their ideas with the Planning Committee for feed-back. We welcome submission of draft applications by email and / or the exchange of new ideas at the International Conference in San Diego. You will be able to meet the RSF Planning Committee members at the RSF pre-membership meeting gathering and the membership meeting (starting at 4:30 pm) on Monday, May 21st.

The significant task of choosing the awardees of the prestigious Joseph R. Rodarte, Ann Woolcock and Robert Crapo Awards is underway, and the awards will be presented at the 2018 International Conference.

This year we are having an expanded pre-membership meeting on Monday, May 21st with activities geared to new and junior colleagues while facilitating networking and socialization of the entire RSF membership. We encourage you to attend and enjoy this dedicated time starting at 4:30 pm. Regarding the dinner / reception we used to have after the membership meeting, we tried to improve it last year and make it more affordable. In response to feedback from the membership and due to simultaneous events run by other institutions, the committee has voted to cancel this year the reception (other assemblies have made the same decision), and expand the pre-membership meeting. There will be, in addition, opportunities announced at the membership meeting to continue bringing together all colleagues from RSF in all fields, both junior and senior scientists and physicians. As usual, we encourage senior scientists to bring their trainees to the event.

PROGRAM COMMITTEE REPORT

Tillie-Louise Hackett, PhD, Chair and Chun Seow, PhD, Chair-Elect

It has been an extremely busy year for the RSF Programming Committee, which comes as a result of the research successes of our RSF membership. The RSF Programming Committee is formed of 30 members representing the diverse range of expertise and career stages within the assembly. The task of the members of the committee is to peer-review all symposia, sessions, and abstracts submitted to RSF. The role of the committee Chair and Chair-elect is to program all accepted RSF sessions and abstracts at the International Conference and participate in other aspects of the International Conference Committee (ICC) functions.

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PROGRAM COMMITTEE REPORT (*Continued*)

RSF Programming Update

- RSF received 537 Scientific Abstracts and 34 Late Breaking Abstracts for review this year, the highest number of abstracts for the last 7 years! This increase in submission is the outcome of the hard work done at the committee level in close coordination with our RSF Early Career Professional Working Group in response to the strategic plan developed by the RSF Executive Committee in 2016. You will see from the ATS schedule below the outstanding research you, the members, bring to the RSF Assembly.
- This year we also took the leadership opportunity to chair the Late Breaking Abstract Programming Committee for all ATS Assemblies, and I am sure the resulting Mini-Symposium Session “Late Breaking Trails and First Reports in Asthma and COPD”, will be of great interest to our membership.
- From all abstracts programmed by RSF, we selected the top most meritorious 25 submitted by trainees or fellows-in-training to receive ATS Scholarship Awards, and selected an additional one for the Stuard J. Hirst Award. The winners will be announced at the RSF membership meeting on Monday, May 21st.
- From the 32 session proposals submitted by our members in June 2017, we were successful in programming 2 Post-graduate Courses, 3 Scientific Symposia, 5 Mini-symposia, 6 Poster Discussion sessions, 14 Thematic Poster sessions, 2 Meet the Professor Seminars, and 3 Sunrise Seminars.
- One Career Development Workshop on big data submitted by the Early Career Professionals Working Group was also programmed.
- The Program Committee chair has the potential to program additional Joint-Scientific Symposia with other Assemblies through a competitive process at the September ICC meeting. This year we led the top-ranked Joint-Scientific Symposium, “At the Interface of Engineering and Respiratory Medicine: Updates and applications” along with our sister assemblies RCMB and EOPH. We were also successful as a Joint Assembly on 2 additional Symposia.
- The 2018 Basic Science Core Theme is “Mitochondrial Dysfunction as a Driver of Lung Disease”. We worked with All and RCMB assemblies to assist the Basic Science Core Working Group with this programming.
- In collaboration with RCMB we jointly programmed the ATS ICC Chair’s symposium session, which this year will focus on “Epithelial Progenitor Cells: Biology, role in disease, and potential therapeutics”.
- Finally, we have assembled a group of top-notch session moderators and facilitators from our membership to enhance the program further that includes junior and international members.

Imaging, airway smooth muscle, pulmonary vasculature, acute lung injury, asthma, pulmonary measurements, interstitial lung diseases, and the extracellular matrix are all represented in the work submitted to RSF. For a full look at the exciting 2018 ATS conference sessions programmed by RSF, please see the schedule below.

Looking Forward

To ensure RSF continues to represent the strong and diverse research expertise of our membership, our prior Program Committee chair, Gwen Skloot, myself, and the RSF leadership have worked extensively with the ATS ICC over the last two years to revise the new abstract categories to be more relevant to the RSF membership. A very important change last year was to include “Physiology / Pathophysiology” as a sub-classification for all category classifications. We believe this has resulted, as hoped, in the 34% increase in abstract submissions from 2016 to 2017. This year we proposed the addition of “Pharmacology” as a sub-classification, which was widely accepted by the ICC. Importantly, RSF will now have the capacity to receive Case Reports submitted for the 2019 ATS International Conference. You will get more information about this exciting news in the coming months.

Lastly, I would like to thank all members of the RSF Program Committee and the current Chair-elect Chun Seow, who peer-reviewed the great science that was submitted to RSF for the 2018 conference. The Program Committee has the responsibility to shape the ATS conference and safeguard the best research is presented. Each February, members of the RSF Program Committee are selected to include a diverse range of expertise and career stages. If you would like to learn more on how you can be involved in this excellent opportunity, I invite you to come and meet us at the RSF membership meeting on Monday, May 21st, starting at 4:30 pm, and / or submit your nomination (email Tillie.Hackett@hli.ubc.ca, Chun.Seow@hli.ubc.ca).

ATS 2018 - SAN DIEGO, CA

SESSIONS SPONSORED BY THE ASSEMBLY ON RESPIRATORY STRUCTURE AND FUNCTION

| Session Code | Session Title | Session Time | |
|------------------------------------|--|--------------|----------|
| Postgraduate Courses | | | |
| Friday, May 18, 2018 | | | |
| PG15 | PULMONARY FUNCTION AND CARDIOPULMONARY EXERCISE TESTING: CLINICAL UPDATES FOR 2018 AND CASE CONFERENCE | 8:00 AM | 4:00 PM |
| Saturday, May 19, 2018 | | | |
| PG27 | MASTER PHYSIOLOGY CLASS: COMMON DISEASES FROM A PHYSIOLOGIC PERSPECTIVE | 8:00 AM | 4:00 PM |
| Scientific Symposium | | | |
| Sunday, May 20, 2018 | | | |
| A10 | PATHOBIOLOGY OF AGE-RELATED LUNG DISEASE: FROM BENCH TO BEDSIDE | 9:15 AM | 11:15 AM |
| Tuesday, May 22, 2018 | | | |
| C5 | MITOCHONDRIA-TARGETED THERAPEUTICS FOR PREVENTING OR TREATING LUNG DISEASES | 9:15 AM | 11:15 AM |
| Wednesday, May 23, 2018 | | | |
| D5 | MECHANOBIOLOGY IN THE AIRWAY ENVIRONMENT: FEEL THE FORCE | 9:15 AM | 11:15 AM |
| Jointly-Developed Symposium | | | |
| Sunday, May 20, 2018 | | | |
| A86 | ATS MYTHBUSTERS: BIOENGINEERING APPROACHES WILL REVOLUTIONIZE RESPIRATORY MEDICINE IN THE NEXT TEN YEARS | 2:15 PM | 4:15 PM |
| Monday, May 21, 2018 | | | |
| B91 | AT THE INTERFACE OF ENGINEERING AND RESPIRATORY MEDICINE: UPDATES AND APPLICATIONS | 2:15 PM | 4:15 PM |
| Tuesday, May 22, 2018 | | | |
| C85 | SCIENTIFIC BREAKTHROUGHS: CELL FUNCTION, FATE AND FITNESS: ROLE OF MITOCHONDRIA | 2:15 PM | 4:15 PM |
| Workshop Sessions | | | |
| Tuesday, May 22, 2018 | | | |
| WS5 | CAREER DEVELOPMENT WORKSHOP: SWIMMING IN THE SEA OF BIG DATA FOR PULMONARY RESEARCH | 11:45 AM | 1:15 PM |
| Sunrise Seminars | | | |
| Monday, May 21, 2018 | | | |
| SS116 | REDUCING UNCERTAINTY IN ORAL DEVICE THERAPY FOR AIRWAY MANAGEMENT | 7:00 AM | 8:00 AM |
| Tuesday, May 22, 2018 | | | |
| SS217 | SMALL AIRWAY TESTS: READY FOR CLINICS? | 7:00 AM | 8:00 AM |
| Wednesday, May 23, 2018 | | | |
| SS316 | INVESTIGATING THE 3D PATHOLOGY OF THE HUMAN LUNG USING MULTI-RESOLUTION COMPUTED TOMOGRAPHY AND STEREOLOGY | 7:00 AM | 8:00 AM |
| Meet The Professor Seminars | | | |
| Sunday, May 20, 2018 | | | |
| MP412 | INVESTIGATING COLLAGEN AND ELASTIN STRUCTURE IN THE DISEASED LUNG USING NON-LINEAR OPTICAL MICROSCOPY | 12:15 PM | 1:15 PM |

| Session Code | Session Title | Session Time | |
|---|--|--------------|----------|
| Meet The Professor Seminars | | | |
| Tuesday, May 22, 2018 | | | |
| MP613 | RUNNING, SLEEPING, AND PREGNANT: UNDERSTANDING ASTHMA IN SPECIAL CIRCUMSTANCES | 12:15 PM | 1:15 PM |
| Mini-Symposium | | | |
| Sunday, May 20, 2018 | | | |
| A18 | COPD: EARLY DISEASE AND HOW TO FIND IT | 9:15 AM | 11:15 AM |
| Monday, May 21, 2018 | | | |
| B20 | ASTHMA: NEW FINDINGS IN AIRWAY SMOOTH MUSCLE PATHOPHYSIOLOGY AND POTENTIAL THERAPY | 9:15 AM | 11:15 AM |
| Tuesday, May 22, 2018 | | | |
| C19 | MECHANICAL VENTILATION: VISUALIZING PARENCHYMAL STRAIN AND ACUTE LUNG INJURY | 9:15 AM | 11:15 AM |
| C97 | DIFFUSE PARENCHYMAL LUNG DISEASES: EVALUATION, OUTCOMES, AND TRIALS | 2:15 PM | 4:15 PM |
| Wednesday, May 23, 2018 | | | |
| D98 | ASTHMA AND COPD: THE BEST OF RESPIRATORY STRUCTURE AND FUNCTION | 1:30 PM | 3:30 PM |
| Poster Discussion Sessions | | | |
| Sunday, May 20, 2018 | | | |
| A29 | NOVEL MECHANISMS FOR AIRWAY SMOOTH MUSCLE CONTRACTION AND RELAXATION: POTENTIAL TARGETS FOR MODULATION | 9:15 AM | 11:15 AM |
| Monday, May 21, 2018 | | | |
| B108 | PULMONARY HYPERTENSION: THE LATEST FINDINGS | 2:15 PM | 4:15 PM |
| Tuesday, May 22, 2018 | | | |
| C29 | LUNG STRUCTURE AND FUNCTION: NEW INSIGHTS FROM MEASUREMENT AND MODELING | 9:15 AM | 11:15 AM |
| Wednesday, May 23, 2018 | | | |
| D28 | RESPIRATORY DISEASE DIAGNOSIS: PULMONARY FUNCTION TESTING AND IMAGING | 9:15 AM | 11:15 AM |
| RAPiD: Rapid Abstract Poster Discussion Sessions | | | |
| Monday, May 21, 2018 | | | |
| B29 | LUNG ECM ENVIRONMENT: NOVEL FINDINGS AND MODELS IN FIBROSIS | 9:15 AM | 11:15 AM |
| Wednesday, May 23, 2018 | | | |
| D110 | EPITHELIAL FUNCTION IN HEALTH AND DISEASE | 1:30 PM | 3:30 PM |
| Thematic Poster Sessions | | | |
| Sunday, May 20, 2018 | | | |
| A72 | WHAT'S NEW IN CYSTIC FIBROSIS, BPD AND OTHER CONGENITAL PEDIATRIC LUNG DISEASES | 9:15 AM | 4:15 PM |
| A73 | DIFFUSE PARENCHYMAL LUNG DISEASE: NOVEL MECHANISMS, BIOMARKERS, AND THERAPEUTICS | 9:15 AM | 4:15 PM |
| A74 | RESPIRATORY HEALTH: ALTITUDE, ENVIRONMENTAL EXPOSURES, AND REHABILITATION | 9:15 AM | 4:15 PM |
| A75 | COPD: TARGETS, MODELS, AND CLINICAL STUDIES | 9:15 AM | 4:15 PM |
| Monday, May 21, 2018 | | | |
| B64 | COPD: LUNG FUNCTION, IMAGING, AND PATHOPHYSIOLOGY | 9:15 AM | 4:15 PM |

| Session Code | Session Title | Session Time | |
|--|---|--------------|----------|
| Thematic Poster Sessions | | | |
| Monday, May 21, 2018 | | | |
| B65 | ASTHMA: PATHOPHYSIOLOGY AND CLINICAL TRIALS | 9:15 AM | 4:15 PM |
| B66 | WHAT'S NEW IN VASCULAR AND PLEURAL DISEASE | 9:15 AM | 4:15 PM |
| Tuesday, May 22, 2018 | | | |
| C74 | ASTHMA: WHAT'S NEW IN ALLERGIC INFLAMMATION! | 9:15 AM | 4:15 PM |
| C75 | LUNG MEASUREMENT: NOVEL METHODS AND TECHNIQUES | 9:15 AM | 4:15 PM |
| C76 | CHEST WALL, RESPIRATORY MUSCLES: NEURAL AND VENTILATORY CONTROL | 9:15 AM | 4:15 PM |
| Wednesday, May 23, 2018 | | | |
| D55 | ACUTE LUNG INJURY AND MECHANICAL VENTILATION: MODELS AND MECHANISM | 9:15 AM | 3:30 PM |
| D56 | WHAT'S NEW IN LUNG INFECTION: BACTERIAL, VIRAL, AND FUNGAL | 9:15 AM | 3:30 PM |
| D57 | LUNG TRANSPLANT: CELLULAR AND PHYSIOLOGICAL INVESTIGATIONS | 9:15 AM | 3:30 PM |
| D58 | AIRWAYS HYPERRESPONSIVENESS: NOVEL MECHANISMS AND TARGETS | 9:15 AM | 3:30 PM |
| ADDITIONAL SESSIONS OF INTEREST TO RSF ASSEMBLY | | | |
| Postgraduate Courses | | | |
| Friday, May 18, 2018 | | | |
| PG8 | A PHYSIOLOGIC APPROACH TO MECHANICAL VENTILATION | 8:00 AM | 4:00 PM |
| PG12 | PEDIATRIC RESPIRATORY PHYSIOLOGY: TESTS OF LUNG FUNCTION AND DISEASES THEY TEST FOR | 8:00 AM | 4:00 PM |
| PG13 | FORGOTTEN AND CONTROVERSIAL TOPICS IN PULMONARY HYPERTENSION | 8:00 AM | 4:00 PM |
| PG14 | ARE YOUR MITOCHONDRIA HAPPY? A BEGINNERS GUIDE TO ASSESSING MITOCHONDRIAL FUNCTION AT THE BENCH | 8:00 AM | 4:00 PM |
| Scientific Symposium | | | |
| Sunday, May 20, 2018 | | | |
| A5 | SETTING THE STAGE: MITOCHONDRIAL DYSFUNCTION AS A DRIVER OF CHRONIC DISEASE | 9:15AM | 11:15 AM |
| A6 | GLYCOBIOLOGY AND GLYCOMICS OF LUNG DISEASES | 9:15AM | 11:15 AM |
| A11 | ATS/JRS/CTS/ERS SYMPOSIUM ON SEVERE ASTHMA: RATIONALIZING TARGETED THERAPEUTICS | 9:15AM | 11:15 AM |
| A85 | MITOCHONDRIAL DYSFUNCTION AND REPROGRAMMING IN LUNG AGING AND DISEASE | 2:15 PM | 4:15 PM |
| A87 | MECHANISMS OF PERSISTENT ORGAN DYSFUNCTION AFTER CRITICAL ILLNESS | 2:15 PM | 4:15 PM |
| Monday, May 21, 2018 | | | |
| B3 | THE REVOLUTION OF LUNG IMAGING: FROM PIXELS TO PATIENTS | 9:15AM | 11:15 AM |
| B6 | PRINCIPLES TO PRACTICE IN PULMONARY REHABILITATION: A PRO/CON DEBATE | 9:15AM | 11:15 AM |
| B82 | CONTROVERSIES IN THE DIAGNOSIS AND TREATMENT OF COPD | 2:15 PM | 4:15 PM |
| B89 | NOT JUST THE LUNGS: PAH AS A SYSTEMIC VASCULAR DISORDER | 2:15 PM | 4:15 PM |
| Wednesday, May 23, 2018 | | | |
| D7 | FROM CANCER BIOLOGY TO NEW THERAPEUTICS: TARGETING CELL PROLIFERATION SIGNALING HUBS IN PULMONARY HYPERTENSION AND FIBROSIS | 9:15AM | 11:15 AM |
| D82 | INTERVENTIONAL APPROACHES TO THE TREATMENT OF OBSTRUCTIVE LUNG DISEASES | 1:30 PM | 3:30 PM |

WEB COMMITTEE REPORT

Sana Siddiqui, PhD, Web Director

The Web Committee has had another eventful year! Members of our Web Group are mostly RSF early career professionals from around the world and we benefit from the participation of senior members Charlie Irvin and Blanca Camoretti-Mercado.

Since ATS 2017 and continuing with the theme of Work / Life Balance in Academia with guest speaker Jae Ellard, an author and expert who specializes in behaviors that cause imbalance, disengagement, and distraction, we have released two excellent podcasts:

- **Having a Difficult Conversation**, moderated by Christopher Philp.
- **Are You Done Yet? Getting Unstuck so You Can Move Forward**, moderated by Jade Jaffar.

These and all previous podcasts can be found at: <http://www.thoracic.org/members/assemblies/assemblies/rsf/podcasts.php>

We look forward to the webinar release on 'Things to Do in San Diego' by Samaneh Bolourchi. This presentation, tailored to the city that hosts ATS, is the second of its kind released by RSF after the success of the 'Things to Do in DC' webinar launched for the 2017 ATS international Conference.

We have been posting in the "What's New" section in our RSF webpage the latest activities and announcements of our assembly and its members before being archived in our website. Many of the contributions are from the Early Career Professional Working Group. Examples of postings are the monthly ECP Highlights, the updated RSF Abstract Writing Guide 2017 – 2018 (submitted by Dr. Gijs Ijpma with input from Drs. Camoretti-Mercado and Hackett), the RSF Mentoring Program, and all the podcasts and journal clubs releases with the respective content pages. We recommend to check the site periodically to know what is going on in RSF at <http://www.thoracic.org/members/assemblies/assemblies/rsf/>.

In close association with the ECP Working Group, we have used our social media platforms **Facebook** (<https://www.facebook.com/pages/ATS-RSF-Assembly/508565009274117>) and **Twitter** (http://twitter.com/ATS_RS_F) to advertise RSF-related happenings. So please follow us if you do not already to keep up-to-date!

ATS is releasing the *MyATS portal*, a new personalized tool for all members. MyATS allows users to access and customize favorite pages on thoracic.org. For a tutorial, please visit: <http://www.thoracic.org/about/my-ats-tutorial.php>.

Finally, I wanted to thank everyone who has contributed to all the Web Committee has accomplished this year. It has been a great delight to serve as the RSF Web Director for the past two years and am excited that Dr. Jade Jaffar (jade.jaffar@monash.edu) will be our next Web Director after the 2018 ATS. I want also to remind you to forward your ideas and suggestions, and become involved and engage with RSF. Best wishes to all.

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, and increase the value you receive as member of RSF. The working group is composed of early career professionals spanning three continents and a wide variety of backgrounds.

We organized one workshop this year, **WS5 - Career Development Workshop: Swimming in the Sea of Big Data for Pulmonary Research** on Tuesday, May 22, 11:45AM - 1:15PM (registration required). This workshop will feature speakers presenting from the basis to the most elaborated concepts and tips on how to get started using big data (Dr. Gerthoffer, University of Nevada), the tools needed to handle big data (Dr. Knight, University of California San Diego), the new challenges in big data (Dr. Cox, Vanderbilt University), and two exciting case reports (Dr. Weiss, Harvard University and Dr. Kaminski, Yale University), followed by an extensive Q&A session led by Dr. David Kasahara (Harvard University).

The 2017 RSF Mentorship Program was successful, with new 14 pairings formed. 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 dedicated space at the ATS international conference. We receive lots of positive feedback about the program year after year, and most participants would recommend others to participate too. Because most assemblies including RSF have seen a small decrease in participants in the Mentorship program we are eager to change this trend.

(Continued on Page 6)

EARLY CAREER PROFESSIONALS WORKING GROUP (Continued)

So, do not hesitate to contact Assembly Program Coordinator, Melinda Garcia (mgarcia@thoracic.org). Our RSF program is currently run by Dr. Kasahara. We are always looking for new mentors and mentees.

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

- **ECP Highlights:** we have posted descriptions of over ten early career RSF members and their research on our RSF web site. We have aimed posting a new ECP highlight every month or so. The Highlights can be found at: <http://www.thoracic.org/members/assemblies/assemblies/rsf/ecp-highlights/>
- **Abstract Writing Guide:** In 2013, we developed an abstract 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 at: <http://www.thoracic.org/assemblies/rsf/resources/rsf-abstract-writing-guide.pdf>
- **Poster Guideline:** We developed and posted in our RSF website the Poster Presentation Guidelines document for Creating a Poster that includes tips on preparing for rapid poster (RAPiD) presentation, a new popular poster discussion session format.
- **Journal Clubs, Podcasts, and Social media:** We continue being involved in the planning and development of these activities led by the RSF Web Committee, Dr. Siddiqui.
- **Pre-business Gathering for New and Junior Members:** In close association with the Planning Committee, we organized for this year gathering just before our membership meeting where RSF leadership will be available to answer questions and hear your comments. There will be also plenty of opportunity to networking and meet new colleagues and potential collaborators. Come and join us on May 21 starting at 4:30 pm.

If you have any ideas, or would like to join us, please do not hesitate to contact me (gijs.ijpma@mcgill.ca) or, starting from May 2018, our new chair Corrine Kliment (cklimen1@jhmi.edu). See you in San Diego!

SCIENCE AND INNOVATION CENTER (SIC)

Jane Bourke, PhD, Representative

The Science Innovation Center (SIC) was established in 2012 to provide a Researcher counterpart to the Clinician Center at the ATS International Conference. Planning of the SIC activities is carried out by the SIC Committee whose members are appointed by the chairs of the participating assemblies, RSF, RCMB, PI-TB and AII, and from the ATS PhD Working Group. I, Jane Bourke, from Melbourne, Australia and Rama Krishnan from Boston represent RSF.

The planning of the ATS 2018 SIC events has occurred throughout the year with regular teleconferences, providing opportunities for the Committee to reflect on the strengths of the programming over the last few years, and identify ways to improve content and engagement, particularly in relation to promotion of the SIC as a valuable resource for basic science researchers attending the conference. This year, the SIC will provide a venue for both professional and social networking and will be open from Sunday, May 20 to Tuesday, May 22, with daily complimentary breakfast served at 7 am and light refreshments served at noon.

We are excited to announce the first *Reception for PhDs & Other Basic Science Researchers* on Sunday, May 20 from 3.30 pm – 5 pm. We hope this will be a great start to the conference and the perfect opportunity to meet up with friends and colleagues as well as a means to express how to enhance the experience of this sector of ATS and learn of more ways to get involved. The Committee has developed a series of topics for *ATS 101* as introductory presentations held over breakfast and lunch on the first two days. This year, the focus is on iPSCs, CyTOF, Pathogenesis of Pneumonia and Mitochondrial Biology. These topics were selected to pair with major scientific symposia / core scientific themes, and will be presented by leaders in the field. Check the final ATS conference program and the Early Career Professional Road Map, and plan to attend!

New this year and targeted at ECPs is the *ECP Coffee Corner*, a breakfast session on Tuesday wherein attendees will meet with representatives from ECP Working groups from AII, RCMB, RSF and PI-TB. The lunchtime session will be a *Meet and Greet Session with NIH Officials*, relevant to researchers at all career stages. All early afternoon sessions will profile the future of research, with the *Rising Stars of Research*, a set of mini-presentations and Q&A by award winners from all assemblies, and the *SIC Awards* to junior investigators who will present their particularly innovative abstracts.

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Estimated attendance at SIC has been steadily increasing since 2012, with up to ~1,000 visits in 2017, indicating that the SIC has been discovered and regarded as a great place to rest, eat, and mingle, as well as to hear some great science from experts and from the research leaders of the future. I highly recommend you visit the SIC at this year's ATS International Conference and benefit from all it has to offer, and to support the award recipients from our Assembly!

Assembly on Respiratory Structure and Function Membership Meeting

*Monday, May 21st
4:30pm-7:00pm
Manchester Grand Hyatt, San Diego
Grand Hall D
Lobby Level*

American Thoracic Society

ASSEMBLIES



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



We help the world breathe
PULMONARY • CRITICAL CARE • SLEEP



ATS 2018 SCIENCE & INNOVATION CENTER

San Diego Convention Center | Sails Pavilion (Upper Level)

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 Assembly on Allergy, Immunology and Inflammation (All), 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 at noon
- + Informal networking & rest area all day

| Sunday, May 20, 2018 | Monday, May 21, 2018 | Tuesday, May 22, 2018 |
|---|--|--|
| <p>ATS 101 Series 7:15 - 8 a.m.</p> <p>Topic: iPSC: Innovation and Promise for Lung Disease</p> <p>Speaker: Amy Firth, PhD, University of South California</p> | <p>ATS 101 Series 7:15 - 8 a.m.</p> <p>Topic: Mass Cytometry (CyTOF) for Translational Lung Research</p> <p>Speaker: Jeffrey Atkinson, MD, Washington University in St. Louis</p> | <p>Early Career Professionals Coffee Corner 7:15 - 8 a.m.</p> <p>Meet representatives from Early Career Working groups from All, RCMB, RSF and PI-TB</p> |
| <p>ATS 101 Series 11:15 a.m. - 12 p.m.</p> <p>Topic: Pathogenesis of Pneumonia</p> <p>Speaker: Joseph P. Mizgerd, Sc.D., Boston University</p> | <p>ATS 101 Series 11:15 a.m. - 12 p.m.</p> <p>Topic: Mitochondria Biology</p> <p>Speaker: Navdeep Chandel, PhD, Northwestern University</p> | <p>Special Meet and Greet Session with NIH Officials 11:15 a.m. - 12 p.m.</p> <p>Topic: Meet and Greet with NHLBI Program Officers</p> <p>Speaker: Matt Craig, PhD Neil Aggarwal, MD, National Institutes of Health</p> |
| <p>Rising Stars 1:15 - 3 p.m.</p> <p>All Rising Stars: 1:15 - 2</p> <p>RCMB Rising Stars: 2 - 2:45</p> | <p>Rising Stars 1:15 - 3 p.m.</p> <p>PI-TB Rising Stars: 1:15 - 2</p> <p>RSF Rising Stars: 2 - 2:45</p> | <p>SIC Abstract Awards 1:15 - 3 p.m.</p> <p>All Abstract winner: 1:20 RCMB Abstract winner: 1:45 PI-TB Abstract winner: 2:10 RSF Abstract winner: 2:35</p> |
| <p>Reception for PhDs & Other Basic Science Researchers Sunday, May 20, 2018 3:30 - 5 p.m.</p> | | |



ATS 2018
Where today's science meets tomorrow's care™

San Diego, CA
May 18 - May 23, 2018
conference.thoracic.org



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!

Assembly Mentoring Programs' Meeting Spot

Struggling to find a quiet location to meet with your mentor? Look no further! This year at the 2018 ATS International Conference in San Diego, CA, 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 at the Manchester Grand Hyatt in the Balboa A room on the Second Level in the Seaport Tower. The room will be available:
Sunday May 20th – Tuesday May 22nd, 2018 from 7 a.m. to 7 p.m.

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

Submit an Assembly/Committee Project Application for funding in FY2019!

We are happy to announce that ATS will once again accept NEW Assembly/Committee Projects for FY2019. 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 your Assembly Planning Committee Chair Reinoud Gosens, PhD at r.gosens@rug.nl.

For questions regarding submissions please contact Miriam Rodriguez at tel: (212) 315-8639 or email: 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: <https://www.thoracic.org/professionals/clinical-resources/video-lecture-series/index.php>

2nd Annual ATS Walking Challenge

Walk for a good cause! Track steps and stay active with the Second Annual ATS Walking Challenge. For every participant who walks 30,000 steps TEVA Respiratory will make a donation of \$100 to the ATS Foundation, for a total maximum donation of \$50,000.

Remember – 100% of all donations to the ATS Foundation fund new research awards. [Click here](#) for more details.

Invitation to Join ATS Signature Global Health Program: Methods in Epidemiologic, Clinical and Operations Research (MECOR)

Loyal to its tagline, the American Thoracic Society helps the world breathe; the ATS has been working to build research capacity in low- and middle-income countries through its Methods in Epidemiologic, Clinical, and Operations Research (MECOR) program for 25 years. This intensive course for physicians and related health care professionals increases capacity and leadership in pulmonary, critical care, and sleep medicine research beyond its US borders and US membership.

This spring, the ATS launched MECOR 2.0, which includes a ground-up redesign of the curriculum, course organization, and faculty/mentorship offerings. The updated program capitalizes and builds upon the program's extensive experience and expertise. The curriculum utilizes a "flipped classroom" teaching model with seminar style classroom sessions and a focus on one to one instruction with a learning management system for students, faculty, and alumni (CANVAS).

Since its initiation in 1994, the scope of the ATS MECOR program has grown tremendously. Today, its footprint is truly global with more than 1800 graduates from its global network of courses. Courses and partners include in **Africa**, the Pan African Thoracic, in **China**, the Chinese Thoracic Society, in **India**, the US Centers for Disease Control and the Indian Council for Medical Research, in **Indonesia**, the Indonesian Society for Respiriology, in the **Mediterranean**, the Turkish Thoracic Society, in **Latin American** the Latin American Thoracic Society, and in **Southeast Asia**, the Vietnamese National TB Program and the University of Sydney.

To join the ATS MECOR program as a faculty member or mentor, please use the link below to complete an application. For more information on the ATS MECOR Program, please go to the ATS website at:

[ATS MECOR Program](#)

[ATS MECOR Faculty Application](#)

Official ATS Documents: Informational Opportunities at the 2018 ATS International Conference in San Diego

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

- Documents Development & Implementation Committee (DDIC) Workshop/Meeting: Friday, May 18th from 6-9 PM, Manchester Grand Hyatt, Golden Hill AB (Seaport Tower, 3rd Level). This session is required for all Guideline Panel Chairs and Chairs of new non-guideline projects. It is also recommended for Chairs of ongoing non-guideline projects. Anyone who is interested in Official ATS Documents is welcome to attend. Please RSVP to John Harmon at jharmon@thoracic.org if you have not already done so. A light dinner will be served.
 - ⇒ 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)
 - ⇒ 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 to discuss your idea with Dr. Kevin Wilson (ATS Documents Editor) or Dr. Jan Brozek (ATS Methodologist). To schedule a meeting, email Kevin Wilson at kwilson@thoracic.org or Jan Brozek at brozekj@mcmaster.ca.
- **Documents Meeting Space:** Meeting space will be available to document developers from Sunday-Wednesday. Contact Kimberly Lawrence at klawrence@thoracic.org for additional details.
- **Guideline Methodology Training Program Information Session:** Monday, May 21st from 7-8:30 PM, Manchester Grand Hyatt, Hillcrest AB (Seaport Tower, 3rd Level). The guideline methodology training program provides mentored training in the skills necessary to serve as a lead methodologist for a clinical practice guideline project. Anyone who is interested in learning more about the 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 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 22nd from 12:15-1:15pm. Registration is available through the Conference Registration Website.

Physicians planning to take the ABIM critical care MOC assessment have a new resource to prepare for the exam: the ATS Review for the Critical Care Boards

The ATS Review for the Critical Care Boards and Questions Book provide an in-depth review of critical care topics that will be on the American Board of Internal Medicine Critical Care Medicine Certification examination. Chapters include:

- Renal, Endocrine and Metabolic Disorders
- Infectious Diseases
- Pharmacology and Toxicology
- Pulmonary Diseases
- Gastrointestinal Disorders
- Surgery, Trauma, and Transplantation
- Cardiovascular Disorders
- Neurologic Disorders
- Hematologic and Oncologic Disorders
- Ethics, Research and Administration

Learn more, order, and begin studying by [visiting](#) the ATS Store

Education Committee to offer Educational Consulting Office Hours during the 2018 International Conference

- Are you planning to submit a proposal for programming at the 2019 International Conference, but don't know where to start?
- Do you want to maximize your chances of having your Postgraduate Course Proposal programmed in 2019?
- Would you like to review feedback you received on a 2018 proposal that wasn't programmed?
- Would you like feedback on a presentation you're giving at this year's International Conference?

If you answered 'yes' to any of the above, stop by the Science and Innovation Center, where members of the Education Committee will be available to answer questions, no appointment necessary. Consulting will be offered on a first-come, first-served basis on:

Monday 5/21 from 10-11AM, 12-1 PM, and 3-4 PM
Tuesday 5/22 from 10-11AM, 12-1PM, and 3-4PM
Wednesday 5/23 from 10-11AM, and 12-1PM

Restoring Joy in Health Care Booth

What does burnout look like and how can we change things personally and professionally for the better?

Explore the **Restoring Joy in Health Care booth** (#904) to crowd source ways to improve the professional environment, get a chair massage or visit with a therapy dog to bring you back to center. Therapy dogs are in the booth from 11 a.m. to 2 p.m. each day.

Interactive booth in the Exhibit Hall (with puppies)
San Diego Convention Center
Hall C (Ground Level), Booth 904
May 20-22, 10:30 a.m. – 3:30 p.m.

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.

Help Available for Assembly Members on Clinical and Research Ethics and Conflict Management

The ATS Ethics and Conflict of Interest Committee is a society-wide committee appointed by the ATS President to be a resource and contribute to ATS education on biomedical and organizational ethics. Its seventeen members are from many ATS assemblies and sections, and many have leadership roles in their institution's ethics committees, advanced degrees in medical or nursing ethics, and have published on related issues.

Assembly members are encouraged to use the committee for advice and help in developing programs, statements, and conference sessions relevant to clinical or research ethics or managing conflicts of interest (COI), as well as in dealing with the ethical issues you face in the workplace. In recent years, the committee developed ATS statements on Managing Conscientious Objections and Responding to Requests for Potentially Inappropriate Therapies, and produced podcasts on other topics that are available within the ATS Breathe Easy podcasts on the ATS website. It also oversees ATS management of COI. The Committee is chaired by David Chooljian, MD, JD. Questions and requests for help can go through the committee's staff member, Shane McDermott, at smcdermott@thoracic.org or 212-315-8650.