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# Respiratory Cell and Molecular Biology

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## MESSAGE FROM THE ASSEMBLY CHAIR

Editor: Melanie Königshoff, MD, PhD

Dear Respiratory Cell & Molecular Biology (RCMB) Members and Friends!

The International ATS Conference in Dallas will kick off soon and I'd like to take this opportunity to give you a sneak preview to the conference. I'd also like to share with you what else has been going on within RCMB over the year! This is my first year as RCMB Assembly Chair and I feel truly honored to serve the society in this position and work with many bright and dedicated people within RCMB and ATS to continue to make this society a home for all of you!



Melanie Königshoff, MD, PhD

ATS and specifically RCMB has been a home for me since I first joined the society over 10 years ago as an international physician-scientist. I have spent most of my professional career in Germany and the ATS International Conference have been central for my professional career. Here are the **top three activities for joining ATS** in the first place and what I still love about ATS. I hope you will get excited and engaged as well!

- 1) The International ATS Conference is the place to present, learn, and get involved in the most novel **cutting edge, high impact research in pulmonary and critical care medicine**. RCMB is dedicated to foster and support innovative basic and translational science in lung development, chronic lung disease, regeneration, and aging and we highlight novel technologies, research approaches, and methodologies. Our *Planning Committee* is dedicated to foster and facilitate communication and collaborative efforts of members with common research interests and ensure the collection and dissemination of information of novel research findings. Over the course of the last several months, our *Program Committee* worked very hard, together with the other Assemblies, to get the best science programmed at the International Conference. This is possible because of all the high-quality proposals and abstracts that we have received within RCMB – thank you all for contributing and submitting your research and proposals for symposia!
- 2) RCMB provides a unique **sense of community and collegiality** and is a true grass roots assembly. I feel very lucky to be part of this community, in which I found so many collaborators, mentors, role models, and friends over the past years. I am proud to be part of this active group, which not only is the biggest cheerleader for pulmonary science and research, but further cares and speaks-up for more general and global issues, such as clean air, climate action, healthcare, gender inequity, and work-life balance. After all, it is all about the niche and the environment for all of us!

It is exciting to work together with the RCMB Assembly Executive Committee and members to ensure that we provide and support the same (and even better) networking and training opportunities for the next generation.

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

*The Early Career Professional Working Group* is one of the most active and fun groups to get started with within RCMB and our *Web and Social Media Committee* is committed to provide high quality content relevant to RCMB members during the entire year, including Pod Casts and Journal Clubs. Check out your favorite social media outlet to keep up to date and informed about recent advances and findings in basic and translational pulmonary medicine and beyond!

3) RCMB is a **home to a diverse group** of scientists, researchers, and clinicians in all career stages! I have been an international member for the longest time and strongly support that RCMB provides a home for members from all over the world. Regardless of educational background and training, we all share the same passion about basic and translational research and RCMB values and strives for equity and diversity throughout our activities! Our RCMB representatives of the *PhD and Basic and Translational Scientists Working Group*, as well as the *Science and Innovation Center* have done a phenomenal job in getting a dedicated and focused program for scientists and physicians-scientists primarily engaged in basic and translational research. Further, it is my great pleasure to introduce to you the newly formed *Innovation and Entrepreneurial Working Group* within RCMB, bringing together a highly diverse group of people excited about innovative technologies and novel potential therapies for chronic lung disease.

With this, please read on for more details about all these RCMB activities and achievements, which are driven by you and meant to be for you!

Finally, I'd like to send a big **Thank you** to the outstanding **RCMB Assembly Executive Committee** for their many contributions and commitments over the last year, as well as the wonderful ATS staff for all their support! As always in life – we can achieve so much more as a team and it is much more fun as well!

And another big **Thank you to all of you**, who supported RCMB during the **ATS Assembly Challenge** this year. I am very proud that so many of you donated to the ATS Foundation to support research grants! Our assembly was the one with the **most first-time donors** and I truly appreciate the energy and generosity among our assembly!

Please feel free to reach out to any of the RCMB Assembly Executive Committee members listed below as well as myself at any time and with any idea! **Your participation and ideas are important to us!** ([Melanie.koenigshoff@ucdenver.edu](mailto:Melanie.koenigshoff@ucdenver.edu), twitter handle: @m\_koenigshoff)

Looking forward to seeing you in Dallas soon, please join us for our **Reception & Membership Meeting on Monday, May 20th, 4:30pm –7:00pm at the Hyatt Regency hotel in the Marsalis Hall A room (Exhibition Level)**. We will introduce a new concept to this meeting this year, which aims to provide the best opportunity to learn about the goals and the structure of RCMB and how to get involved in a fun and interactive way. This year's Motto is **“Rodeo and organelles”**, so come in your choice of style and get to know our activities and the people behind all this. We are looking forward to get to know you and to welcome you as an essential part of the RCMB future!

Melanie Königshoff, MD, PhD

## PROGRAM COMMITTEE

Lisa Young, MD, Program Chair, and Enid R. Neptune, MD, Program Chair– Elect

The annual American Thoracic Society meeting is one of the highlights of the academic year for the members of the RCMB and other ATS assemblies. It is the goal of the RCMB Program Committee to help bring cutting edge basic and translational science to our membership. *The Program Committee* membership now comprises 39 members from around the world who have worked with tremendous enthusiasm to construct an exciting program for ATS 2019. Every year the Program Committee reviews, grades, collates and **develops all of the Scientific Symposia, Minisymposia, Poster-discussion and Thematic abstract sessions, Post-graduate courses, Meet the Professor sessions, Workshops and Sunrise Seminars.**

To promote interactions and programmatic synergy across assemblies, we also work closely with colleagues in other assemblies including AII, RSF, EOPH, and PEDS. The committee's work began last summer, reviewing the many excellent proposals for scientific symposia, sunrise seminars, and postgraduate courses. Ultimately, we were able to program 5 RCMB major symposia, with an additional 2 symposia shared jointly with other assemblies. At the 2019 conference, the RCMB is sponsoring 2 Sunrise Seminars, and 1 Post Graduate Course.

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## PROGRAM COMMITTEE (Continued)

We were also able to program 5 RCMB major symposia, with an additional 2 symposia shared jointly with other assemblies. At the 2019 conference, the RCMB is sponsoring 2 Sunrise Seminars, and 1 Post Graduate Course.

This year's "Basic Science Core Topic" is **Cell Lineage and Fate: Implications for Human Lung Health and Disease, and RCMB was also fortunate to program the "Scientific Breakthrough Session" entitled 'Scientific Breakthroughs in Lung Biology.'** RCMB received numerous, high quality proposals related to the basic science core topic, most of which were successfully programmed. This year RCMB received 695 abstract submissions, a number similar to the tally for the 2018 conference. These abstracts were programmed into 6 Mini Symposia, 7 Poster Discussion Sessions (3 RAPID), and 12 Thematic Poster Sessions. In advance of the conference, the presenters in the RAPID sessions will submit one summary powerpoint slide to their session chairs. chairs poster viewing, these poster presenters will have the opportunity to present a 1-minute summary of their work. Over 90 colleagues have agreed to help in chairing sessions, serving as featured speakers or as facilitators at this year's thematic poster sessions. Our goals were to partner junior and more established colleagues in most sessions, with broad international representation. We encourage you to be part of shaping the RCMB Program for 2019. The call for proposals for Scientific Symposia, PG courses, Sunrise Seminars and Meet the Professor Sessions for ATS 2020 begins in June 2019. Now is the time to start working with your colleagues to develop ideas for the 2020 program. The Basic Science Core for next years' conference is **Lung Regeneration: Intersection of Biology and Technology**, which is an exciting topic for our Assembly. The Program chairs and committee are always available and happy to offer suggestions before final submission. New members for the Program Committee and new chairs and facilitators for the sessions are important to sustaining a vibrant and inclusive ATS meeting, and we welcome contributions from enthusiastic members. The Program committee for 2019-20 has been finalized but there are approximately 5-10 new positions available every year.

If you are interested in joining the Committee for next year, please contact the Incoming Chair, Enid Neptune ([eneptune@jhmi.edu](mailto:eneptune@jhmi.edu)), who will maintain a list of interested individuals. Lastly, we would like to thank the Program Committee Members and the ATS-IC staff. We especially appreciated the patience, expertise, experience, guidance, and dedication of ATS-IC staff!

This year RCMB received 695 abstract submissions, a number similar to the tally for the 2018 conference. These abstracts were programmed into 6 Mini Symposia, 7 Poster Discussion Sessions (3 RAPID), and 12 Thematic Poster Sessions. In advance of the conference, the presenters in the RAPID sessions will submit one summary powerpoint slide to their session Chairs.

### ATS 2019 INTERNATIONAL CONFERENCE ASSEMBLY ON RESPIRATORY CELL AND MOLECULAR BIOLOGY SESSIONS

Session Code	Session Title	Session Time	
<b>Postgraduate Course</b>			
<b>Saturday, May 18, 2019</b>			
PG23	HIGH-CONTENT SINGLE-CELL TECHNIQUES TO STUDY LUNG IN HEALTH AND DISEASE	8:00 AM	4:00 PM
<b>Scientific Symposia</b>			
<b>Sunday, May 19, 2019</b>			
A7	BREAKING THE PARADIGM: EARLY ORIGINS OF COPD	9:15 AM	11:15 AM
<b>Monday, May 20, 2019</b>			
B85	THEY'VE GOT THE BEAT: CILIA IN DEVELOPMENT AND DISEASE	2:15 PM	4:15 PM
<b>Tuesday, May 21, 2019</b>			
C85	SCIENTIFIC BREAKTHROUGHS IN LUNG BIOLOGY	2:15 PM	4:15 PM
C88	COMPLEMENT AS A NOVEL TARGET TO MITIGATE LUNG DISEASE	2:15 PM	4:15 PM

Session Code	Session Title	Session Time	
<b>Wednesday, May 22, 2019</b>			
D7	EXOSOMES: WEAPONS OF MASS DESTRUCTION	9:15 AM	11:15 AM
D91	USING THE BASIC BIOLOGY OF IPF TO DESIGN NEW THERAPIES	1:30 PM	3:30 PM
<b>Jointly-Developed Symposia</b>			
<b>Sunday, May 19, 2019</b>			
A91	WHAT YOU CAN'T SEE MIGHT HURT YOU: THE INTERPLAY BETWEEN THE MICROBIOME AND IMMUNITY IN LUNG DISEASE	2:15 PM	4:15 PM
<b>Tuesday, May 21, 2019</b>			
C12	MACROPHAGES: LINEAGE, DIVERSITY, AND LUNG DISEASE	9:15 AM	11:15 AM
<b>Sunrise Seminars</b>			
<b>Monday, May 20, 2019</b>			
SS113	METHODS IN CHARACTERIZING MUCOUS CELL METAPLASIA	6:45 AM	7:45 AM
<b>Wednesday, May 22, 2019</b>			
SS314	ENGINEERING 3D MODELS OF HUMAN PULMONARY DISEASE	6:45 AM	7:45 AM
<b>Mini-Symposia</b>			
<b>Monday, May 20, 2019</b>			
B20	LUNG TRANSPLANTATION: MODELS AND MECHANISMS	9:15 AM	11:15 AM
B95	CELLULAR AND MOLECULAR LANDSCAPE OF THE LUNG	2:15 PM	4:15 PM
B96	COMPLEX CELL BEHAVIORS IN PULMONARY FIBROSIS	2:15 PM	4:15 PM
<b>Tuesday, May 21, 2019</b>			
C18	RARE LUNG DISEASES	9:15 AM	11:15 AM
<b>Wednesday, May 22, 2019</b>			
D17	TOWARDS THE NEXT IPF THERAPIES	9:15 AM	11:15 AM
D98	NEW MECHANISMS OF ACUTE LUNG INJURY	1:30 PM	3:30 PM
<b>Poster Discussion Sessions</b>			
<b>Sunday, May 19, 2019</b>			
A29	EMERGING CONCEPTS IN LUNG FIBROSIS	9:15 AM	11:15 AM
<b>Tuesday, May 21, 2019</b>			
C107	GOING VIRAL TO REPAIR	2:15 PM	4:15 PM
<b>Wednesday, May 22, 2019</b>			
D29	LUNG MULTI-OMICS TO MECHANISM	9:15 AM	11:15 AM
D107	MITOCHONDRIA AND ER STRESS IN HOMEOSTASIS AND REPAIR	1:30 PM	3:30 PM

Session Code	Session Title	Session Time	
<b>RAPiD: Rapid Abstract Poster Discussion Sessions</b>			
<b>Sunday, May 19, 2019</b>			
A107	ENGINEERED AND REMODELLED MATRIX COMPARTMENTS	2:15 PM	4:15 PM
<b>Monday, May 20, 2019</b>			
B28	HOW AIRWAYS MALFUNCTION: NEW CONCEPTS	9:15 AM	11:15 AM
<b>Tuesday, May 21, 2019</b>			
C28	PATHWAYS OF LUNG MORPHOGENESIS	9:15 AM	11:15 AM
<b>Thematic Poster Sessions</b>			
<b>Sunday, May 19, 2019</b>			
A60	LUNG INJURY, SEPSIS, AND ARDS	9:15 AM	4:15 PM
A61	EPITHELIAL BIOLOGY	9:15 AM	4:15 PM
A62	MUCUS, MUCINS, MUCOCILIARY UNIT IN LUNG DISEASE	9:15 AM	4:15 PM
<b>Monday, May 20, 2019</b>			
B61	COPD: BASIC DISCOVERY	9:15 AM	4:15 PM
B62	ASTHMA MECHANISMS	9:15 AM	4:15 PM
<b>Tuesday, May 21, 2019</b>			
C58	MECHANISMS OF PULMONARY FIBROSIS	9:15 AM	4:15 PM
C59	GENETIC AND EPIGENETIC MECHANISMS IN PULMONARY FIBROSIS	9:15 AM	4:15 PM
C60	VASCULAR BIOLOGY IN LUNG DISEASE	9:15 AM	4:15 PM
C61	LUNG DEVELOPMENT, BPD, AND STEM CELLS	9:15 AM	4:15 PM
C62	FIBROBLAST BIOLOGY	9:15 AM	4:15 PM
C63	MECHANISTIC STUDIES IN COPD	9:15 AM	4:15 PM
C64	PULMONARY FIBROSIS MODELS AND MECHANISTIC INSIGHTS	9:15 AM	4:15 PM
<b>ATS 2019 INTERNATIONAL CONFERENCE ADDITIONAL SESSIONS OF INTEREST TO RCMB ASSEMBLY</b>			
Session Code	Session Title	Session Time	
<b>Postgraduate Courses</b>			
<b>Friday, May 17, 2019</b>			
PG3	A RESEARCHER'S GUIDE TO INTEGRATING THE PULMONARY 'OMICSVERSE	8:00 AM	4:00 PM
<b>Saturday, May 18, 2019</b>			
PG19	RESPIRATORY PHYSIOLOGY OVER THE LIFESPAN: WHEN IT'S RIGHT AND WHEN IT'S NOT	8:00 AM	4:00 PM
PG20	OPTIMIZING MANAGEMENT OF THE PATIENT WITH SEVERE BRONCHOPULMONARY DYSPLASIA	8:00 AM	4:00 PM

Session Code	Session Title	Session Time	
PG21	LUNG INNATE IMMUNITY: ON THE FRONTLINES OF HOST DEFENSE	8:00 AM	4:00 PM
<b>Scientific Symposia</b>			
<b>Sunday, May 19, 2019</b>			
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
A87	KNOWLEDGE GAPS AND PATHWAYS FORWARD IN RV FAILURE RESEARCH: RECOMMENDATIONS FROM AN OFFICIAL ATS RESEARCH STATEMENT ON RV FAILURE	2:15 PM	4:15 PM
<b>Monday, May 20, 2019</b>			
B5	TILL DEATH DO US PART: CELL FATE AND OBSTRUCTIVE LUNG DISEASE	9:15 AM	11:15 AM
B6	BORN TOO SOON: THE EFFECTS OF PREMATURITY ON THE NEONATAL/ DEVELOPING LUNG	9:15 AM	11:15 AM
B9	ADDICTING A NEW GENERATION: JUULING, VAPING, HEAT NOT BURN, FLAVORINGS, AND THE EVIDENCE FOR WHY WE SHOULD BE VERY CONCERNED	9:15 AM	11:15 AM
B10	HUMAN LUNG CELL ATLAS: BEYOND SINGLE CELL RNA-SEQUENCING	9:15 AM	11:15 AM
B11	LUNG-OMICS: TO BOLDLY GO...	9:15 AM	11:15 AM
<b>Tuesday, May 21, 2019</b>			
C5	DISCOVERING THE ROLE OF STEM CELL FATE IN LUNG INJURY AND FIBROSIS	9:15 AM	11:15 AM
C6	THE FORGOTTEN CELL: RED BLOOD CELLS AS MODULATORS OF IMMUNITY	9:15 AM	11:15 AM
C86	LUNGMAP-ING CELL LINEAGES IN HUMAN DEVELOPMENT AND DISEASE	2:15 PM	4:15 PM
C90	BENCH TO BEDSIDE: HOW DIETARY N3-PUFAS MODULATE THE PULMONARY RESPONSE TO ENVIRONMENTAL EXPOSURES	2:15 PM	4:15 PM
<b>Wednesday, May 22, 2019</b>			
D85	UNFOLDING CIRCADIAN CLOCKS AND ER STRESS IN LUNG DISEASES	1:30 PM	3:30 PM
D86	METABOLISM AS A LINK BETWEEN LUNG CANCER AND ITS MICROENVIRONMENT	1:30 PM	3:30 PM
D88	NEW-TROPHILS: AN OLD CELL WITH NEW TRICKS IN LUNG DISEASE	1:30 PM	3:30 PM
<b>Workshop</b>			
<b>Wednesday, May 22, 2019</b>			
WS7	CRISPR: BREAKING BAD FOR THE GOOD OF ADVANCING SCIENCE	11:45 AM	1:15 PM

## PLANNING COMMITTEE

Jeffrey C. Horowitz, MD, Chair

The RCMB Planning Committee has two primary responsibilities. First, we review **ATS Assembly/Committee project applications** in which RCMB is the primary or secondary sponsor. These projects, submitted by any Assembly member, request funds and administrative support activities that enhance the communication and collaborative efforts of members with common interests and to enhance the collection, interpretation and dissemination of information pertaining to focused areas of pulmonary disease that are of interest to RCMB members. The Planning Committee not only reviews these proposals, but works with the submitting members to provide feedback and revise the proposal before it is reviewed by the ATS Program-Review Subcommittee and the ATS Finance Committee where final decisions are made.

In the last fiscal year, **RCMB was the sponsor or co-sponsor of three projects** that were renewed and for which the final reports should be published: 1) “Stem Cells, Cell Therapies and Bioengineering in Lung Biology and Diseases: Official ATS Workshop Report (Darcy Wagner), 2) ATS Workshop on Improving the Quality and Reproducibility of Flow Cytometry in the Lung (Robert Tighe), and 3) High throughput sequencing in respiratory, critical care and sleep medicine research (Craig Hersh). In addition, RCMB was the co-sponsor of a new workshop proposal that was very positively reviewed, and we hope this proposal will be revised and resubmitted in the next funding cycle. If any member has an idea or questions about advancing a project proposal, please do not hesitate to contact me in the early stages and I will be happy to work with you as the proposal comes together.

The second charge for the RCMB Planning Committee is to review applications for the **RCMB Assembly Awards**, including the **Carol Basbaum Award** to recognize outstanding scientific achievement and leadership potential in a junior investigator and the **Andy Tager Award** for Excellence in Mentoring. This past year, the committee had a difficult task, as it received 6 nominations for the Basbaum Award and 7 nominations for the Tager Award; the committee uniformly felt that all of the nominees for each of the awards was outstanding and that all were deserving. Nevertheless, with each award one candidate stood out from the rest. We look forward to the presentation of these awards during the ATS International Conference in Dallas this May. Of note, the RCMB Assembly will also be presenting two “**Rising Star**” Awards to exceptional candidates who were not selected for the Basbaum Award, the **Recognition of Early Academic Achievement Award (REAAch)** which is reviewed by the members of the *Early Career Professionals Working Group*, and the **Jo Rae Wright Award** which is selected based on the abstracts submitted to RCMB. Congratulations go out to all of the Award winners and to all nominees for their outstanding work and contributions to our community.

This concludes my first year as the RCMB Planning Committee Chair, and I would like to thank my predecessors, including the most-recent past Chair Oliver Eickelberg, for leaving the committee in such great shape. Additionally, I thank all of the members of the Planning Committee for your time, effort, and dedicated contributions to the RCMB Assembly.

Cheers, and I'll see you all in Dallas!

[jchorow@umich.edu](mailto:jchorow@umich.edu)

## WEB COMMITTEE

Maor Sauler, MD

As members of the RCMB assembly, we are part of a global community of pulmonologists, scientists, and researchers. The ability to share ideas with colleagues around the world is critical to achieving our mission of reducing the burden of lung disease. The goal of the RCMB website committee is to provide **a virtual forum to facilitate scientific conversations and collaborations amongst RCMB members.**

We have a strong social media presence, including an active twitter account with over 1,000 followers, (@ATS\_RCMB). We have used this platform to share ideas important to RCMB members, frequently retweeting links to new articles that we believe are of interest to our members, with a particular emphasis on those written by RCMB members.

The RCMB website committee continues to organize Journal Club discussions of interesting articles in which presenting authors and invited experts participate in an informal discussion. This year we have sponsored four journal clubs to date, with plans for two additional journal clubs before the end of the year. We have highlighted the resources of the **LungMAP project** in a three-part webinar series that has served as a great resource of junior and senior investigators alike. Participants included Katrina Steiling, Maor Sauler, Gloria Pryhuber, Ravi Misra, Tom Mariani, Yan Xu, Jeffrey Whittsett, Scott Palmer, Steve Edwards, and Yina Du. We also recently had a journal club on “Heme Scavenging Reduces Pulmonary Endoplasmic Reticulum Stress, Fibrosis, and emphysema” presented by Saurabh Aggarwal,

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## WEB COMMITTEE (CONTINUED)

hosted by Brian Southern, and included panelists Mark Gladwin, Denis Stuehr, and Sadis Matalon. We also co-sponsored a journal club “A single-cell atlas of the airway epithelium reveals the CFTR-rich pulmonary ionocyte” which was co-hosted by Nathan Jackson and included presentations from Allon Klein and Aaron Jaffe.

We have also organized **podcasts** with established and rising leaders in the field of respiratory biology. This year we have recorded 5 podcasts on “Complement Modulation in asthma and COPD” with Hrishikesh Kulkarni, Stephane Lajoie, and Farrah Kheradmand; “Cigarettes, Flu, and Fibrosis” with Charles Dela Cruz and Dan Aridgides; “Therapeutic Advances in Cystic Fibrosis” with Maor Sauler and Scott Randell; “Understanding Early Chronic Obstructive Pulmonary Disease” with Enid Neptune and Francesca Polverino; and “Discussing ATS 2019” with RCMB Chair, Melanie Königshoff, You should expect more podcasts from our group this year, including a discussion with journal editors to get their insight into the publishing process.

All Journal Clubs and podcasts can be viewed and/or downloaded from the ATS website. ATS podcasts can also be found on iTunes.

The RCMB website committee is a great way to get involved in ATS, particularly for junior folks, and we are looking to add members to our committee. It’s also a great way to share your research with the ATS community.

Please contact me if you would like to participate, if you have an idea for a journal club or podcast, if you just want others to learn about your work, or if you have any other suggestions. My e-mail, [maor.sauler@yale.edu](mailto:maor.sauler@yale.edu).

## EARLY CAREER PROFESSIONALS WORKING GROUP

Clemente Britto– Leon, MD, ATSF, Chair

The primary mission of the *Early Career Professionals Working Group* (ECPWG) is to increase involvement of fellows and junior faculty in the RCMB Assembly and ATS as a whole. We are a mix of junior faculty MDs and PhDs, comprised of both U.S. and international members helping junior members take full advantage of the resources available at the ATS international conference.

Every year, the ECPWG coordinates the **RCMB Mentoring Program** at the ATS International Conference (IC). The mentoring program provides opportunities to exchange ideas and experiences that support scientific collaboration, career development, and networking opportunities amongst our members in a welcoming one-on-one format. Our mentors help junior faculty explore available networking opportunities at key IC venues including the RCMB business meeting and reception. Help us increase visibility and participation in this important program. Your participation as mentor and or mentee is very valuable, please join us!

**In 2019 we inaugurated the RCMB Apprenticeship Program**, the program is a mechanism to provide early career Assembly members with an opportunity to be directly involved in guiding the future of ATS. Apprentices may serve in either the Program or Planning Committee. Under the mentorship of a committee member, Apprentices will get a ‘behind the scenes’ look at the operations of their Assembly while developing skills for evaluation of committee applications and development of committee projects. We selected our first two participants for the upcoming year and they will also be announced at the RCMB Membership Meeting.

We hope you will be able to join us for **Annual RCMB Membership Meeting and Reception at ATS 2019**. This event will take place on **Monday, May 20th 4:30-7pm at the Hyatt Regency Dallas hotel in the Marsalis Hall A room, on the Exhibition Level**. This meeting provides an invaluable opportunity for young investigators to interact with senior members of RCMB in an informal environment.

As part of our mission to support the advancement of early career professionals, we are thrilled to announce the **Second Class of the Recognition for Early Academic Achievement (REAAch) Award**. This award highlights the academic progress and increases the recognition of members of the assembly at the Instructor and Assistant Professor level. The awardees will be announced during the RCMB Assembly Membership Meeting.

The ECPWG strives to ensure that junior members make the most of their experience as members of the assembly. Looking forward to ATS 2018, we made improvements to the Science and Innovation Center (SIC), and worked with the Members in Training and Transition Committee (MITT) to develop programming relevant to our members. (Continued on Page 9)

## EARLY CAREER PROFESSIONALS WORKING GROUP (CONTINUED)

The ECPWG strives to ensure that junior members make the most of their experience as members of the assembly. Looking forward to ATS 2018, we made improvements to the Science and Innovation Center (SIC), and worked with the Members in Training and Transition Committee (MITT) to develop programming relevant to our members. Please look for our **RCMB picks** incorporated into the MITT roadmap. This selection highlights seminars and events of interest to early career professionals within RCMB. We also prepared an **RCMB Roadmap and New Member cards** to guide fellows and junior faculty to key events in the SIC and the IC. Grab a copy at the SIC or print your own from upcoming RCMB ATS 2019 updates.

We are always looking to add qualified individuals to enrich our group. Please contact us if you are interested in participating ([clemente.britto@yale.edu](mailto:clemente.britto@yale.edu)).

We look forward to welcoming you to ATS 2019 and hope to see you at the annual RCMB Membership Meeting and Reception at ATS2019!

## SCIENCE AND INNOVATION CENTER

Elizabeth F. Redente, PhD and David Lagares PhD, Co-Chairs

We are very excited for the programming at the **Science and Innovation Center (SIC)** this year at ATS 2019. As you are aware, the SIC is a networking hub for basic scientists and physicians-scientists primarily engaged in basic and translational research, as well as anyone with a passion or appreciation for scientific aspects of pulmonary, sleep, and critical care medicine. This year, the SIC is open from 7:00 AM- 5:00 PM Sunday May 19th – Tuesday May 20th, and is offering sessions on professional and career development and an opportunity to meet with NIH program officers and industry/biotech leaders. The Second Reception for PhDs & Other Basic Science Researchers will take place on Sunday, May 19th from 3-5pm.

In addition, we have basic science seminars that highlight some exciting new technologies to investigate Cell Fate and Neuronal Control of Inflammation. A complimentary light breakfast is served each day at 7 am, with refreshments available at noon and an informal networking and rest area all day.

The SIC schedule is included in the newsletter or can be found at: <http://conference.thoracic.org/attendees/resource-centers/science-innovation-center.php>.

Some extra special things to highlight where we would love to see a big presence of RCMB members:

- Sunday (5/19): **Rising Star and SIC Abstract Awards**. RCMB recipients will be awarded between 1:30-2:15 pm. This is a great opportunity to support our Rising Stars!
- Sunday (5/19) 3:00-5:00 pm: **PhD and Basic Science Reception**. This is a perfect opportunity to meet and mingle with other scientists. Please register at: <http://conference.thoracic.org/program/events/reception-phd-other-basic-science-researchers.php>
- Monday (5/20) 1:00-3:00 pm: **The Bear Cage** (hosted by DDDD). A science competition that promotes productive discussion of novel translational research ideas in the setting of a fun, yet competitive, forum promoting opportunities for collaboration, mentorship, and growth.

We are looking forward to seeing you soon during the SIC programming!

[redentee@njhealth.org](mailto:redentee@njhealth.org)

## INNOVATION AND ENTREPRENEURIAL WORKING GROUP

Milica Vukmirovic, PhD , Chair

The RCMB Innovation and Entrepreneurial Working Group was formed in March 2019. The group gathers world known academic and industry experts who support entrepreneurial activities in respiratory field and within the RCMB Assembly. The goals of the group are a) to identify learning gaps in development of new drugs and devices coming from the academic research in interstitial lung diseases (ILD), b) to organize a PG Course on Entrepreneurship in Life Science, workshops and seminars at International Conferences as well as to assist with business related grant proposals and c) to work with other assemblies, RIS and DDDD, as well as with foundations and philanthropic investors to develop funding opportunities for innovative research. For more details on group activities and how to get involved, please stay tuned following RCMB news and Twitter page ([https://twitter.com/ATS\\_RCMB](https://twitter.com/ATS_RCMB))

[milica.vukmirovic@yale.edu](mailto:milica.vukmirovic@yale.edu)

## PHD AND BASIC AND TRANSLATIONAL SCIENTISTS WORKING GROUP

RCMB Representative- Scott Randell, PhD

PhD's and others that characterize themselves as primarily basic and translational scientists are valued ATS members, and their numbers are increasing! The important roles of these individuals have been recognized by the ATS Board of Directors and Assembly Chairs. After several meetings, a reception at the 2018 SIC, and hard work by key people, the Working Group officially started on January 1, 2019. It is chaired by Dr. Blanca Camoretti-Mercado (RSF), and co-chaired by Drs. Tom Mariani (RCMB) and Beth Moore (AII). The working group includes members of most ATS assemblies and coordinates efforts with multiple ATS committees. A long-term goal is *"to improve the value and the experience of ATS members with professional efforts that are either predominantly or specifically basic or translational oriented research."* The PTSWG will promote programming at the IC, diversity and inclusion on ATS committees, and other key issues most pertinent to this important demographic within ATS. As noted in our Chair's letter, a reception will be held in the SIC during the 2019 IC in Dallas on Sunday, May 19, from 3-5 PM. All Conference Attendees are welcome!

[scott\\_randell@med.unc.edu](mailto:scott_randell@med.unc.edu)

## LUNG AGING RESEARCH WORKING GROUP

Irfan Rahman, PhD, ATSF, GR Scott Budinger, MD and Louise Hecker, Ph.D , Co-Chairs

The Lung Aging Research WG has been initiated in 2019. Our main goal is to increase awareness and disseminate knowledge of the pathophysiological mechanisms of aging in the lungs with interests in terms of basic biology of aging in debilitating lung diseases including critical care and geriatric aging. We aim to thus contribute to the larger mission of the current Interesting Group of Aging, with which we closely interact. This group will bring together lung researchers who are interested in understanding the cellular and molecular mechanisms of aging and age-related lung diseases and forms a forum for discussion on hallmarks of lung aging and associated diseases

If you are interested in learning more about our goals and activities, please join us at ATS 2019 and feel free to contact us:

### ATS Meetings:

- ◆ RCMB Aging Research WG **Monday, May 20th: 11:45-1:15pm (lunch)**
- ◆ Entire Interest Group on Aging **Sunday, May 19th: 5:30-7:00pm**

### Chairs

Irfan Rahman, PhD, ATSF

(Continued on Page 11)

GR Scott Budinger, MD

Louise Hecker, Ph.D

**ECP Representative**

Benjamin D. Singer, MD

**Postdoctoral Representative**

Mareike Lehmann, PhD

Chairs Contact:

[irfan\\_rahman@urmc.rochester.edu](mailto:irfan_rahman@urmc.rochester.edu)

[s-buding@northwestern.edu](mailto:s-buding@northwestern.edu)

[lhecker@email.arizona.edu](mailto:lhecker@email.arizona.edu)

***Assembly on Respiratory Cell & Molecular Biology  
Membership Meeting***

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

***Hyatt Regency, Dallas***

***Marsalis Hall A***

***Exhibition Level***

**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](http://www.thoracic.org)**

Please consider submitting an application for an Assembly/Committee project. If you have a suggestion for a project application and you need assistance, please contact your **Assembly Planning Committee Chair, Jeffrey C. Horowitz, MD** at [jchorow@umich.edu](mailto:jchorow@umich.edu)

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



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](http://www.thoracic.org/go/get-involved)



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PULMONARY • CRITICAL CARE • SLEEP



## 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>

### Assembly Mentoring Programs' Meeting Spot



Struggling to find a quiet location to meet with your mentor? 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 Regency Dallas in the Baker room on the Atrium Level.

**The room will be available:**

Sunday, May 19th – Tuesday, May 21st, 2019 from 7 a.m. to 7 p.m.

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

**Join us at the Mentoring Reception:**

Sunday, May 19th, 4:30-6:30pm  
Monday, May 20th, 7:00-9:00pm  
Baker Room (Atrium Level)

Interested in joining a Mentoring Program? Visit our [Assemblies Mentoring homepage](#) or contact Nicole Feijoo at [NFeijoo@thoracic.org](mailto:NFeijoo@thoracic.org)

## 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](http://thoracic.org/go/researchgrants)

**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: Sunday, May 19 to Tuesday, May 21st from 10:30 a. m — 3:30 p. m**



**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](mailto: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**

## **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](#).

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

Thank you for participating in the [2018 ATS Assembly Challenge!](#)

The annual challenge taps into the grassroots community — and competitive spirit — of the ATS assemblies in support of the ATS Foundation.



**Linda L. Chlan, PhD, RN**, chair for the Assembly on Nursing, receives Nursing’s 2018 ATS Assembly Challenge award from Dean Schraufnagel, MD, ATS Foundation Chair

The results are: the Assembly on **Allergy Immunology & Inflammation** raised the most dollars with \$74,232; **Nursing** had the highest member participation with 18.26 percent; **Respiratory Cell & Molecular Biology** had the highest number of first-time givers in December with 25 new donors.

Many members made gifts supporting the [Research Program](#) and other core programs in the final days of 2018. There was tremendous energy around the Challenge this year, with assembly chairs crafting special messages to their members. Most chairs sent two or more personal emails to their members during the Challenge.

Congratulations to the Allergy Immunology & Inflammation, Nursing, and Respiratory Cell & Molecular Biology assemblies! They will receive special recognition in ATS communications, at ATS 2019, and within their own assemblies.

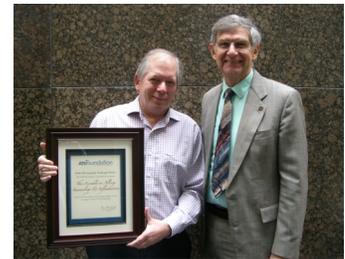
The ATS Foundation would like to thank all ATS assemblies for their outreach and generosity during the Challenge. You provided a big boost to Foundation year-end giving campaigns—and a boost to our upcoming grant-making capacity for talented investigators. Thank you for your enthusiastic support!

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

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



**Melanie Koenigshoff, MD, PhD**, Chair for the Assembly on Respiratory Cell & Molecular Biology, receives RCMB’s 2018 ATS Assembly Challenge award from Dean Schraufnagel, MD, ATS Foundation Chair



**Jay K. Kolls, MD**, chair for the Assembly on Allergy Immunology & Inflammation, receives All’s 2018 ATS Assembly Challenge award from Dean Schraufnagel, MD, ATS Foundation Chair



# ATS 2019 SCIENCE & INNOVATION CENTER

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).

**HOURS:** + Sunday, May 19 - Tuesday, May 21 – 7a.m.- 5p.m. + Wednesday, May 22 – 7a.m.- 1p.m.

**DAILY:**

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

Sunday, May 19	Monday, May 20	Tuesday, May 21
7:15 - 8:00 a.m. <b>ATS 101: Cell Fate</b> Jason Rock, PhD, Boston University	7:15 - 8:00 a.m. <b>ATS 101: Neural Control of Inflammation</b> Brenda Marsh, MD, PhD, OHSU	7:15 - 8:00 a.m. <b>Early Career Professionals Coffee Corner</b>
8:15 - 9:15 a.m. <b>Navigating ATS</b> Julie Ledford, PhD, University of Arizona	8:15 - 9:15 a.m. <b>Setting up a Lab</b> Phil Verhoef, MD, PhD, University of Chicago	8:15 - 9:15 a.m. <b>Mentorship: A Key to Success</b> Laura Crotty-Alexander, MD, University of California at San Diego Anne Sperling, PhD, University of Chicago
9:15 - 10:00 a.m. <b>PRDS Orientation</b>	9:15 - 10:00 a.m. <b>Hiring Lab Management</b> Chad Steele, PhD, Tulane University	9:15 - 10:00 a.m. <b>Building Your Track Record for Career Success</b> Greg Downey, MD, National Jewish Health
10:15 - 11:00 a.m. <b>ATS 101: RNA Seq</b> Jay Kolls, MD, Tulane University Naftali Kaminski, MD, Yale University	10:15 - 11:00 a.m. <b>ATS 101: Imaging</b> Yan Bai, MD, Harvard University Steven Rowe, MD, University of Alabama	10:15 - 11:00 a.m. <b>ATS Foundation Grants</b> Erin Marie Nebel, ATS
11:00 - 11:45 a.m. <b>Lunch &amp; Learn: RNA Seq Data</b>	11:00 - 11:45 a.m. <b>Lunch &amp; Learn: Imaging</b>	11:00 - 11:45 a.m. <b>NIH Grants/Working with Industry</b> Taylor Cohen, PhD, MedImmune Lora Reineck, MD, NIH Ghenima Dirami, PhD, NIH
12:00 - 3:00 p.m. <b>Rising Star and SIC Abstract Awards</b>	12:00 - 12:45 p.m. <b>From Innovative Ideas to Clinical Trials</b> Hector Ortega, MD, Gossamer Bio David Lagares, PhD, Harvard Tim Watkins, MD, Gilead	12:00 - 12:45 p.m. <b>Lunch &amp; Learn: Grants and Funding</b>
3:00 - 5:00 p.m. <b>PhD and Basic Science Reception</b>	1:00 - 3:00 p.m. <b>BEAR CAGE COMPETITION</b> 	1:00 - 1:45 p.m. <b>Bridging the Gap (MD Perspective)</b> Josh Englert, MD, Ohio State University John Christman, MD, Ohio State University
	3:30 - 4:30 p.m. <b>Minority Trainee Development Scholarship Reception</b>	1:45 - 2:45 p.m. <b>Bridging the Gap (PhD Perspective)</b> Beth Moore, PhD, University of Michigan Megan Ballinger, PhD, Ohio State University
		3:00 - 4:30 p.m. <b>Relax and Recharge</b>



**ATS 2019**  
Where today's science meets tomorrow's care™

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INTERNATIONAL CONFERENCE**

dallas  
tx



# Third Annual ATS Walking Challenge

## 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!

Learn more and pre-register online at: [hekahealth.com/ats2019](http://hekahealth.com/ats2019) or stop by the Walking Challenge Booth in Lobby D, level 2 at the Kay Bailey Hutchison Convention Center,

**Supported by:**



## 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.Thoracic.org](http://Foundation.Thoracic.org).

**May 17 - May 22, 2019 | [conference.thoracic.org](http://conference.thoracic.org)**