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RESPIRATORY CELL AND MOLECULAR BIOLOGY
ASSEMBLY NEWSLETTER
EDITED BY LYNN M. SCHNAPP, MD

SPRING 2011



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Message from the Assembly Chair

Lynn M. Schnapp, MD

ATS International Conference registration is now open. Although the temperatures are still below freezing and snow continues to fall around the country, the days are getting longer and crocuses are starting to bloom. Which means, of course, the ATS International Conference is right around the corner. I hope all of you will join us in the mile-high city of Denver for what promise to be an outstanding conference. RCMB program committee, under the superb leadership of Susan Guttentag, has assembled an outstanding selection of symposium, PG courses, and poster sessions listed below.

Attend the ATS Research Foundation Dinner on Saturday, May 14th, 2011!

Research support is one of the highest priorities for RCMB members. As funding continues to be tight, it is more important than ever to support the next generation of pulmonary investigators. The ATS Foundation is committed to provided additional *unrestricted* research grant awards. As part of the fund-raising activities, ATS Foundation will once again host the Research Dinner on Saturday evening, May, 14th. Remember, all of the money raised now stays with the ATS Foundation. By demonstrating high level of participation of the RCMB membership (that means you!), we send a strong message to the entire ATS membership about our commitment to the research mission of ATS. RCMB Assembly hopes to host several tables at this years Dinner. If you would like to sit at one of the RCMB tables, please contact Lydia Neumann at lneumann@thoracic.org after you register. Consider sponsoring your trainees at the dinner-it's a great networking opportunity for them, and a nice introduction into ATS. As added incentive, the program at the dinner will be MUCH shorter this year, and the sound system will be less obnoxious, to enhance the atmosphere and facilitate catching up with your friends.

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New Gordon Research Conference on Lung Development, Injury & Repair: Building and Rebuilding the Lung!

The Gordon Research Conference will be held from August 14-19, 2011 at Salve Regina University, Newport, RI. This conference will emphasize mechanisms in lung development, injury and repair and focus on new advances in these fields such as microRNA, systems biology, and bioengineering. By bringing together a diverse and outstanding group of investigators together to present the most up-to-date advances in these related fields, we hope to encourage creative and multidisciplinary approaches that will ultimately facilitate development of innovative and effective therapies. It should be an exciting and fun conference. In spirit of full disclosure-I am Chair of the conference, so I'm totally biased. For more information and preliminary program, please go to: <http://www.grc.org/programs.aspx?year=2011&program=lungdev>

RCMB Working Groups

RCMB Junior Professional Working Group. The objective of this new group is to identify junior professionals in the RCMB Assembly and promote their involvement within the Assembly and the ATS. This new group has several ongoing projects, including:

- Organizing the pre-business meeting reception and post-membership meeting dinner.
- Creating an "Introduction to the RCMB" supplement to the ATS brochure for new members
- Organizing a database of junior members in the RCMB.
- Ensuring representation of junior professionals on committees and as facilitators of scientific sessions at the ATS
- To get involved or learn more about this group, contact Peter Chen, pchen@uw.edu

The RCMB Educational Session Planning (ESP) working group is focused on improving the training and educational components of RCMB Assembly offerings at the International Conference. To do so, it will assess membership needs and assist in the development of session proposals, in an effort to improve their quality for the membership and increase their CME benefit. The ESP Working Group wants to know if there are scientific topics you feel are under-represented and/or would like to see programmed at the International Conference! This group can develop a session proposal based upon a member's suggestion or help members to develop their own complete, competitive proposal. This group is co-chaired by Tom Mariani (tom_mariani@urmc.rochester.edu) and Angela Wang (alwang@mac.com) and includes Patricia Sime (University of Rochester), Susan Guttentag (University of Pennsylvania), Irina Petrache (Indiana University), Stew Levine (NIH), Luis Ortiz (University of Pittsburgh), Benjy Raby (Harvard University), Brian Day (National Jewish Medical Center), Jae-Woo Lee (University of California, San Francisco), Ramana Sidhaye (Johns Hopkins University), Michelle Fanucchi (University of Alabama, Birmingham). If you would like to offer a suggestion or discuss proposal development, please contact one of the co-chairs.

The Website Committee, under the leadership of J Kelley Bentley and Angela Wang, has initiated a series of upgrades to the main RCMB Assembly site. Come visit the website <http://lungscience.ning.com> and look for new links to: RCMB Working Groups, Career Development Resources, Research Resources Link, Upcoming Scientific Meetings, Who's Who in RCMB, RCMB Sessions at ATS 2011. In addition, we now

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RCMB Working Groups

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have features on past recipients of the [Carol Basbaum Award](#) and Travel Award Recipients. The committee continues to welcome input from all Assembly members.

The RCMB Stem Cell Working Group is comprised of investigators interested in understanding the role of stem cells in lung biology and diseases and in developing cell therapy and bioengineering approaches for lung diseases. The Working Group is involved in working with the NIH and other funding agencies to help craft research and funding priorities and runs a highly successful conference, "Stem Cells and Cell Therapies in lung Biology and Diseases", held every other year at the University of Vermont.

Additionally, given the rise of medical tourism and an increasing number of unsubstantiated stem cell treatments being advertised on the internet and elsewhere, the Committee has put together a patient/provider education page on stem cells and cell therapies on the ATS website, and can be found at: <http://patients.thoracic.org/materials/index.php>

Working Group on Comparative Pathobiology of Lung Fibrosis – the main focus of the working group is currently finalizing a document that summarizes the state-of-the-art in this area, identifies areas of common interest, and provides recommendations for moving forward. This document is near completion and the group is in the process of identifying a journal for publication. For questions, contact Jesse Roman j.roman@louisville.edu



The American Journal of Respiratory Cell and Molecular Biology has become an electronic-only publication and will no longer appear in print.

The ATS came to this decision as part of its efforts to extend the reach of the *AJRCMB*, take advantage of opportunities for the use of four-color and creative presentation and become more electronically interactive and environmentally responsible. This change, the ATS believes, can also enhance the journal's national and international exposure.

Becoming an electronic-only journal does not change anything related to article submissions or reviews. All editorial policies, processes and content remains unchanged.

The March 2011 issue of the *AJRCMB* is now posted online at <http://ajrcmb.atsjournals.org>. Subsequent issues of the journal will be posted by the beginning of each month and can be found at this same address.

You may also choose to have an electronic table of contents emailed to you each month. To sign up, please visit www.thoracic.org/journals/index.php and click on "e-TOC" under the journal.



RCMB Assembly Membership Meeting

Monday May 16th 5:00pm-7:00pm
Hyatt Regency
Third Level
Capitol Ballroom 1,2,3

ATS RCMB Membership Meeting:

Please mark your calendar for the RCMB Membership Meeting on Monday, May 16th, at 5:00 PM. The RCMB Membership Meeting will be held at The Hyatt Regency Hotel on the Third Level in the Capitol Ballroom 1,2,3. This is the place to get all of the updates on Assembly business, and ATS organization. At the meeting, we will be announcing the results of the RCMB officer election. We will again have a pre-meeting reception at 4:30, organized by the Junior Professional Working Group, where all fellows and trainees are invited to come by for networking, food and drink.

IMPORTANT ELECTION NEWS!

New this year, all voting for RCMB officers will be on-line only. All primary and secondary Assembly members are eligible to vote in assembly elections. The winners will be announced at the RCMB Membership Meeting in May. The nominating committee, chaired by David Ingbar, with Mike Beers and Eric White, has come up with a slate of outstanding candidates for the positions. Please go to the ATS website beginning April 1st to see the candidate's statements and vote! This is your chance to have direct input into the future leadership of the Assembly. Deadline to vote is April 30th.

Submit an Assembly/Committee Project Application for funding in FY2012!

We are happy to announce that ATS will once again accept NEW Assembly/Committee Projects for FY2012. 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 beginning in June. 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 Patricia Sime at patricia_sime@urmc.rochester.edu

Please contact Miriam Rodriguez with any questions at tel: 212/315-8639 or email: mrodriguez@thoracic.org.



Please join us for the Third Annual ATS Foundation Research Dinner on Saturday, May 14, 7:00 pm, at the Hyatt Regency Denver.

This year's exciting dinner includes a video paying tribute to the Colorado scientists and clinicians whose groundbreaking discoveries and revolutionary treatments have shaped how pulmonary medicine is practiced today. The evening also honors Louis S. Libby, MD, executive vice president and chief medical officer of The Oregon Clinic, and this year's recipient of the "Breathing for Life" award. The dinner also features entertainment.

For the foreseeable future, the continuation of unrestricted and research partner grants will depend largely on the Foundation's ability to raise funds from ATS members like you. Our dinner goal in 2011 is to raise \$200,000 for two unrestricted research grants. Please help us achieve that goal by joining us in Denver. To register, please use this link: <https://www.xpressreg.net/register/thor051/foundation/start.asp>. Or, you may also visit the Foundation Web site: <http://foundation.thoracic.org>. For more information, contact Lydia Neumann: Lneumann@thoracic.org.

ATS 2011 – Denver
Sessions Sponsored by the
Assembly on Respiratory Cell and Molecular Biology

Session Code	Session Title	Sess Time Begin	Sess Time End
Friday, May 13, 2011			
PG13	ENGINEERED NANOPARTICLES AND AIRWAY: THERAPEUTIC APPLICATIONS AND HEALTH RISKS	8:00 AM	4:00 PM
Saturday, May 14, 2011			
PG27	FUNCTIONAL ANALYSIS OF STEM CELLS: GETTING READY TO TRANSLATE	8:00 AM	4:00 PM
Sunday, May 15, 2011			
A18	SMOKE SIGNALS: ILLUMINATING NOVEL TARGETS FOR COPD AND EMPHYSEMA INTERVENTION	8:15 AM	10:45 AM
A29	STEM CELLS: WHO ARE YOU, HOW CAN YOU HELP ME AND WHAT DO YOU NEED?	8:15 AM	10:45 AM
A64	MUCINS AND CILIA	8:15 AM	4:30 PM
A65	MECHANISMS OF AIRWAY RESPONSE TO INJURY (RESPIRATORY VIRUSES, CIGARETTE SMOKE, AND ASTHMA)	8:15 AM	4:30 PM
A66	MECHANISMS OF ACUTE LUNG INJURY FROM CELLS TO ANIMAL MODELS	8:15 AM	4:30 PM
A67	SURVIVOR-RCMB: AUTOPHAGY, SENESENCE, AND SURVIVAL	8:15 AM	4:30 PM
A68	AN ENDOCRINE STUDY OF THE LUNG: GLUCOCORTICOID, SEX, AND OTHER HORMONES	8:15 AM	4:30 PM
A69	LIPID-MEDIATED SIGNALING	8:15 AM	4:30 PM
MP415	INDUCED PLURIPOTENT STEM (iPS) CELLS: TIPS AND TRICKS FOR LUNG RESEARCHERS	12:00 PM	1:00 PM
MP416	LUNG CANCER GENOMICS: HYPE OR HOPE?	12:00 PM	1:00 PM
A90	PRENATAL EXPOSURES AND PREDISPOSITION TO ADULT LUNG DISEASE	2:00 PM	4:30 PM
A107	NEW CONCEPTS IN PROTEASES AND ANTIPROTEASES	2:00 PM	4:30 PM
Monday, May 16, 2011			
SS114	DOES TELOMERASE ACTIVITY ONLY LENGTHEN TELOMERE? IMPLICATIONS IN IPF	7:00 AM	8:00 AM
B7	BIOENGINEERING FOR LUNG DISEASES: PROGRESS IN REBUILDING THE LUNG	8:15 AM	10:45 AM
B18	MITOCHONDRIAL FUNCTION IN PULMONARY HEALTH AND DISEASE	8:15 AM	10:45 AM
B28	SCARRING IN THE LUNG: PRINCIPLES AND PERSPECTIVES	8:15 AM	10:45 AM
B64	PATHWAYS REGULATING FIBROBLAST GENE EXPRESSION	8:15 AM	4:30 PM
B65	STEM CELLS, CELLULAR PLASTICITY, AND EPITHELIAL-MESENCHYMAL TRANSITION	8:15 AM	4:30 PM
B66	REGULATING GENE EXPRESSION: MI-RNA, GROWTH FACTORS, ETC.	8:15 AM	4:30 PM
B67	FIBROBLAST BIOLOGY: NOVEL BIOMARKERS AND MICROENVIRONMENT	8:15 AM	4:30 PM
MP517	CLOSING THE GAP: IMAGING LUNG TISSUE SLICES IN 3D	12:00 PM	1:00 PM
B87	THE AGING LUNG: CONSIDERATIONS IN DISEASE DEVELOPMENT AND EXPRESSION	2:00 PM	4:30 PM
B97	NOVEL METHODS OF INFORMATION TRANSFER TO AND FROM STEM CELLS	2:00 PM	4:30 PM

ATS 2011 – Denver
Sessions Sponsored by the
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Session Code	Session Title	Sess Time Begin	Sess Time End
Tuesday, May 17, 2011			
SS213	SHARED GENETICS BETWEEN ASTHMA AND OBESITY	7:00 AM	8:00 AM
C8	DAMAGE-ASSOCIATED MOLECULAR PATTERNS IN LUNG DISEASE AND CRITICAL ILLNESS: THE ENEMY WITHIN	8:15 AM	10:45 AM
C17	INFLAMMATION AND MICROENVIRONMENTAL FACTORS THAT PROMOTE LUNG CANCER DEVELOPMENT	8:15 AM	10:45 AM
C27	GENETIC PROGRAMS DRIVING LUNG DEVELOPMENT AND REGENERATION	8:15 AM	10:45 AM
C28	CHANNEL SURFING: LUNG EPITHELIAL ION TRANSPORT MECHANISMS IN HEALTH AND DISEASE	8:15 AM	10:45 AM
C66	MOLECULAR TARGETS FOR THERAPEUTIC DEVELOPMENT IN LUNG CANCER	8:15 AM	4:30 PM
C67	ALVEOLAR EPITHELIUM	8:15 AM	4:30 PM
C68	LUNG CANCER: TUMOR MICROENVIRONMENT AND INFLAMMATION	8:15 AM	4:30 PM
C69	LUNG CANCER BIOMARKERS	8:15 AM	4:30 PM
C70	SURFACTANT AND COLLECTINS	8:15 AM	4:30 PM
C109	OMICS APPROACHES TO LUNG DISEASES	2:00 PM	4:30 PM
Wednesday, May 18, 2011			
SS314	IMMUNOTHERAPY FOR THE TREATMENT OF LUNG CANCER	7:00 AM	8:00 AM
SS315	PHYSIOLOGY AND PATHOBIOLOGY OF EPITHELIAL CELLS	7:00 AM	8:00 AM
D8	LET'S START AT THE VERY BEGINNING: EARLY LUNG CARCINOGENESIS	8:15 AM	10:45 AM
D27	NF-KAPPAB: REGULATION AND EXPLOITATION	8:15 AM	10:45 AM
D35	OXIDANTS AND ANTIOXIDANTS	8:15 AM	4:30 PM
D36	ANIMAL MODELS OF PULMONARY FIBROSIS	8:15 AM	4:30 PM
D37	SYSTEMS BIOLOGY AND MOLECULAR PROFILING IN PULMONARY HEALTH AND DISEASE	8:15 AM	4:30 PM
D38	TRANS-MEMBRANE COMMUNICATION: RECEPTORS AND CHANNELS	8:15 AM	4:30 PM
D39	NOVEL THERAPEUTICS IN PULMONARY FIBROSIS	8:15 AM	4:30 PM
D87	WHAT GOES WRONG IN IDIOPATHIC PULMONARY FIBROSIS? WHY INJURY LEADS TO FIBROSIS, NOT REPAIR	2:00 PM	4:30 PM
D97	EMERGING OXIDATIVE STRESS-RELATED MECHANISMS IN INJURY AND REPAIR	2:00 PM	4:30 PM
D98	EPITHELIAL AGING, INJURY AND REGENERATION IN PULMONARY FIBROSIS	2:00 PM	4:30 PM

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