



Respiratory Structure and Function Assembly Newsletter

We help the world breathe
PULMONARY • CRITICAL CARE • SLEEP

Edited by Jeffrey J. Fredberg, Assembly Chair

SPRING 2009

Message From the Assembly Chairman

Jeffrey J. Fredberg, M.D.

Officers of the Assembly on Respiratory Structure and Function

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The RSF Assembly needs you. Yes, You!

If you have never been active in Assembly affairs, or even if you have been, the Assembly needs you now. I request of everyone in the Assembly to do three things:

1. Please think about proposing an Assembly Project. Assembly projects are a mechanism to sponsor a workshop on an emerging scientific issue that deserves increased attention, or to bring together experts from diverse disciplines who ordinarily would not have the opportunity to interact, or to write a position paper about any question of topical interest.

The submission process is relatively simple, and, if successful, the project can provide travel costs or other expenses. I would be happy to talk to you to provide guidance and suggestions. Full information and instructions are found on our website: www.thoracic.org/sections/about-ats/assemblies/project-application.html.

2. Please nominate a deserving colleague for one of our Assembly Awards. The **Ann Woolcock Award** recognizes a young investigator of outstanding promise who is beyond formal training but not yet fully established. The **Joseph R. Rodarte Award** for scientific distinction recognizes an established investigator within the area of respiratory structure and function. Complete descriptions of these awards, evaluation criteria, and the nomi-

nating process are available at:
www.thoracic.org/sections/about-ats/assemblies/rsf/awards/index.html

3. At the International Conference, please attend both the RSF business meeting and the RSF dinner. At these informal functions you will get the opportunity to socialize with colleagues, make new friends, and learn how to influence society affairs.

Thanks for taking time to stop by our website, and please feel free to contact me at any time.

Jeffrey J. Fredberg, PhD
RSF Assembly Chair (2008-2010)

Questions? Comments? Suggestions? Complaints?

Please contact us directly via the RSF Assembly mailbox: rsf@thoracic.org. We look forward to hearing from you.

To learn more about the RSF Assembly and its mission, go to: www.thoracic.org/sections/about-ats/assemblies/rsf/index.html

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Message From RSF Program Committee

Connie C. W. Hsia, M.D., Chair

The RSF Program Committee is pleased to have sponsored or co-sponsored the following sessions at the upcoming ATS International Conference in San Diego:

ATS 2009 – San Diego Sessions Sponsored by the Assembly on Respiratory Structure and Function

Postgraduate Courses

Friday, May 15, 2009

PG12	CASE-BASED PULMONARY FUNCTION TEST INTERPRETATION	8:00 AM	-	4:00 PM
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Saturday, May 16, 2009

PG27	LINKING BASIC RESPIRATORY PHYSIOLOGY TO CLINICAL PATIENT MANAGEMENT	8:00 AM	-	4:00 PM
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Symposia

Sunday, May 17, 2009

A8	MICRORNA (PART ONE): REGULATION OF LUNG CELL FUNCTION	8:15 AM	-	10:45 AM
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A86	MOLECULAR AND CELLULAR ASPECTS OF LUNG REMODELING AND CONSEQUENCES IN CHRONIC LUNG DISEASES	1:30 PM	-	4:00 PM
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Monday, May 18, 2009

B7	FROM AIRWAY EPITHELIUM TO MUSCLE: THE PATHWAY OF REMODELING	8:15 AM	-	10:45 AM
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Tuesday, May 19, 2009

C86	CAUSES OF MULTI-ORGAN FAILURE IN CRITICALLY ILL SEPTIC PATIENTS	1:30 PM	-	4:00 PM
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Wednesday, May 20, 2009

D8	REVOLUTION IN BRONCHOSPASM: OUT WITH THE OLD IDEAS, IN WITH THE NEW	8:15 AM	-	10:45 AM
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Meet the Professor Seminars

Sunday, May 17, 2009

MP419	NEW CONCEPTS OF SOLUTE AND WATER TRANSPORT IN LUNG HEALTH AND DISEASE	12:00 PM	-	1:00 PM
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Monday, May 18, 2009

MP517	PHARMACOLOGIC AND GENETIC MODELS TO ASSESS AIRWAY REMODELING AND FUNCTION	12:00 PM	-	1:00 PM
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MP518	PULMONARY COMPLICATIONS OF OBESITY	12:00 PM	-	1:00 PM
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Tuesday, May 19, 2009

MP618	EMERGENCY IMAGING ENDPOINTS IN EMPHYSEMA TREATMENT TRIALS	12:00 PM	-	1:00 PM
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Sunrise Seminars

Monday, May 18, 2009

SS117	QUANTITATIVE LUNG FIBROSIS AS BIOMARKER IN TREATMENT EFFICACY IN SCLERODERMA	7:00 AM	-	8:00 AM
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Tuesday, May 19, 2009

SS216	TNF AND ALLERGIC ASTHMA: CELLULAR AND MOLECULAR MECHANISMS	7:00 AM	-	8:00 AM
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SS217	PHYSIOLOGIC ASSESSMENT OF LUNG GROWTH EARLY IN LIFE	7:00 AM	-	8:00 AM
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ATS 2009 – San Diego Sessions Sponsored by the Assembly on Respiratory Structure and Function

Sunrise Seminars

Wednesday, May 20, 2009

SS318	GENE EXPRESSION ANALYSIS IN THE LUNG	7:00 AM	-	8:00 AM
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Mini-Symposia

Sunday, May 17, 2009

A19	IMAGING THE DISTAL LUNG: ADVANCES IN TECHNIQUE AND APPLICATION	8:15 AM	-	10:45 AM
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A98	INSIGHT FROM ANIMAL MODELS OF EMPHYSEMA I	1:30 PM	-	4:00 PM
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Monday, May 18, 2009

B19	NOVEL MECHANISMS IN ACUTE LUNG INJURY	8:15 AM	-	10:45 AM
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Tuesday, May 19, 2009

C97	TGF BETA IN CHRONIC AIRWAY DISEASE: MECHANISM AND CONSEQUENCES	1:30 PM	-	4:00 PM
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Wednesday, May 20, 2009

D97	MEDIATORS OF SKELETAL MUSCLE INJURY AND REPAIR	1:30 PM	-	4:00 PM
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D98	SMOOTH MUSCLE CONTRACTION REVEALS ITS SECRETS	1:30 PM	-	4:00 PM
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Poster Discussion Sessions

Sunday, May 17, 2009

A28	CELLULAR AND TISSUE RESPONSE TO MECHANICAL STRESS	8:15 AM	-	10:45 AM
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A109	PATHOPHYSIOLOGY OF THE HYPERRESPONSIVE AIRWAY I	1:30 PM	-	4:00 PM
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Monday, May 18, 2009

B108	ACUTE LUNG INJURY: FROM GENES, PATHWAYS AND MODELS TO PATIENTS	1:30 PM	-	4:00 PM
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B109	AIRWAY SMOOTH MUSCLE PHENOTYPE AND FUNCTION	1:30 PM	-	4:00 PM
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Tuesday, May 19, 2009

C29	SKELETAL MUSCLE FUNCTION AND DYSFUNCTION	8:15 AM	-	10:45 AM
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Wednesday, May 20, 2009

D28	IMAGING OBSTRUCTIVE LUNG DISEASES I	8:15 AM	-	10:45 AM
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D29	LUNG REMODELING: NEW CHALLENGES AND PROMISES	8:15 AM	-	10:45 AM
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D108	INFLAMMATORY MEDIATORS: OLD AND NEW PLAYERS	1:30 PM	-	4:00 PM
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Thematic Poster Sessions

Sunday, May 17, 2009

A60	INSIGHT FROM ANIMAL MODELS OF EMPHYSEMA II	8:15 AM	-	4:00 PM
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A61	EXERCISE IN HEALTH AND DISEASE	8:15 AM	-	4:00 PM
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A62	THE CYTOSKELETON AND CELL CONTRACTILITY	8:15 AM	-	4:00 PM
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A63	ALVEOLAR STRUCTURE AND PATHOLOGY	8:15 AM	-	4:00 PM
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A64	GAS EXCHANGE, HIGH ALTITUDE AND HYPOXIA	8:15 AM	-	4:00 PM
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Monday, May 18, 2009

B63	IMAGING: EVOLVING TECHNOLOGIES AND RELATION TO PATHOLOGY	8:15 AM	-	4:00 PM
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B64	CELLULAR AND MOLECULAR ASPECTS OF ACUTE LUNG INJURY	8:15 AM	-	4:00 PM
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Tuesday, May 19, 2009

C71	MOLECULAR MECHANISM AND PHYSIOLOGY OF AEROSOL AND NANOPARTICLES	8:15 AM	-	4:00 PM
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C72	AIRWAY REMODELING: FUNCTIONAL CONSEQUENCES	8:15 AM	-	4:00 PM
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C73	ASSESSMENT OF AIRWAY PATHOPHYSIOLOGY	8:15 AM	-	4:00 PM
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ATS 2009 – San Diego Sessions Sponsored by the Assembly on Respiratory Structure and Function

Thematic Poster Sessions

Wednesday, May 20, 2009

D50	MODELING STRUCTURE-FUNCTION RELATIONSHIPS	8:15 AM	-	4:00 PM
D51	PATHOPHYSIOLOGY OF THE HYPERRESPONSIVE AIRWAY II	8:15 AM	-	4:00 PM
D52	COUGH, DYSPNEA AND AIRWAY RECEPTORS	8:15 AM	-	4:00 PM
D53	LUNG AND CHEST WALL MECHANICS	8:15 AM	-	4:00 PM

ATS 2009 – San Diego Assembly on Respiratory Structure and Function Joint Sessions

Thematic Poster Sessions

Tuesday, May 19, 2009

CP/RSF C35	NEW FINDINGS IN LYMPHANGIOLEIOMYOMATOSIS	8:15 AM-	-	4:00 PM
CP/RSF C41	NEW FINDINGS IN PULMONARY FUNCTION	8:15 AM-	-	4:00 PM
CC/RSF C55	MECHANICAL VENTILATION: PHYSIOLOGY	8:15 AM-	-	4:00 PM

Wednesday, May 20, 2009

CP/RSF D103	IMAGING OBSTRUCTIVE LUNG DISEASES II	1:30 PM	-	4:00 PM
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In addition, we are extremely pleased to report that one abstract nominated by RSF, entitled “Genetic variation in the FAS gene and association with outcomes in acute lung injury”, by BJ Glavan, TD Holden, CH Goss, RA Black, TR Martin and MM Wurfel, of the Harborview Medical Center, University of Washington and the VA Puget Sound Medical Center, Seattle, WA, had been selected as one of three outstanding abstracts to be presented at the **Outstanding Research Symposium: Scientific Breakthroughs of the Year**, on Sunday 1:30-4:00 p.m.

The theme of this symposium this year is “**Deciphering Lung Disease in the Genomic Era**”. This session features two prominent keynote speakers: Kari Stefansson and Eric Schadt.

I would like to thank the Program Committee Chair-Elect, Blanca Camoretti-Mercado, for her enthusiastic help in putting the program together, and extend to her my best wishes as she assumes the duties of the Program Committee Chair next year. We also wish to thank all the Program Committee members who

took the time and care to evaluate the proposals and abstracts and provide their comments and suggestions. The RSF Program Committee is committed to maintaining diverse international representation in order to better serve our membership. Finally, we hope to see all of you in sunny San Diego.

Please consider submitting an Assembly/Committee Project Application for funding in FY2010!

This year we will once again use an **Online Application Process** using an electronic grants submission site called proposalCENTRAL. All interested applicants must submit their Assembly/Committee Project Applications online through proposalCENTRAL. To avoid being rushed at deadline time, applicants are encouraged to register and complete a

professional profile at proposalCENTRAL as early as possible.

There will be a link to proposalCENTRAL on the ATS homepage at www.thoracic.org along with comprehensive instructions that have been designed to correspond with the fields in the online application. Please consider submitting an online 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 Andrew J. Halayko at ahalayk@cc.umanitoba.ca.

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

Patients to Speak at Fifteen Designated ATS International Conference Symposia

The ATS Public Advisory Roundtable (ATS PAR) has selected patients to provide a patient perspective at fifteen symposia at the 2009 ATS International Conference Symposia. This concept has worked exceptionally well within the format of the PAR Symposium for the last seven years as well as at an increasing number of sessions at ATS International Conferences from 2004 to 2008.

This is the sixth year that patient speakers will participate within the Assemblies' Symposia. The patients will make a five-minute presentation to offer insight into their personal journeys. This insight will address diagnosis, treatment, and how the disease has dramatically altered their lifestyle, family, career and relationships. They will share their perspective into what patients would like physicians and researchers to

know about physician/patient relationships and the importance and relevance of the work in which investigators and researchers are engaged.

The symposia at which a patient perspective will be presented are listed below:

ASSEMBLY	SESSION CODE	TITLE	DATE/TIME
CP/AII	A3	Controversies In Lung Transplantation: A Pro-Con Debate	Sunday, May 17 8:15 AM-10:45 AM
CP/BS/ NRSB/ RCMB	A82	High Impact Disease Modifying Therapies In Advanced COPD: Current Status And Future Directions	Sunday, May 17 1:30 PM-4:00 PM
PC/ RCMB	A85	Selective Kinase Or Multikinase Inhibitors In Pulmonary Hypertension	Sunday, May 17 1:30 PM-4:00 PM
SRN	A87	Sleep-Disordered Breathing Beyond Obesity: The Role Of Gender, Race, And Genetics	Sunday, May 17 1:30 PM-4:00 PM
EOH/AII	B9	Fat And Flow: Implications Of Diet And Obesity For Asthma	Monday, May 18 8:15 AM-10:45 AM
CP/AII	B82	Clinical Problems In Sarcoidosis	Monday, May 18 1:30 PM-4:00 PM

Patients to Speak at Fifteen Designated ATS International Conference Symposia

ASSEMBLY	SESSION CODE	TITLE	DATE/TIME
PC/AII/CP	C5	Scleroderma-Related PAH: A Paradigm For Vascular Remodeling	Tuesday, May 19 8:15 AM-10:45 AM
SRN	C8	New Frontiers in the Management of Obstructive Sleep Apnea	Tuesday, May 19 8:15 AM-10:45 AM
RCMB/AII/CP/CC/PC/RSF	C85	Mechanotransduction In Lung Injury, Repair And Fibrosis: May The Force Be With Us	Tuesday, May 19 1:30 PM-4:00 PM
RSF/CP/CC/NRSG/PC/RCMB	C86	Causes Of Multi-organ Failure In Critically Ill Septic Patients	Tuesday, May 19 1:30 PM-4:00 PM
CP	D2	Lung Cancer Clinic: State Of The Art	Wednesday, May 20 8:15 AM-10:45 AM
CC/CP	D4	Therapeutic Frontiers In Acute Lung Injury	Wednesday, May 20 8:15 AM-10:45 AM
BS/CP/NRSG/PED/PR	D10	Medication Availability And Access: Issues Of Value And Affordability	Wednesday, May 20 8:15 AM-10:45 AM
RCMB/AII/CP	D89	Targeting Tumor Microenvironment Interactions In Lung Cancer	Wednesday, May 20 1:30 PM-4:00 PM
CC	D93	Non-Pulmonary Problems in the ICU	Wednesday, May 20 1:30 PM-4:00 PM

ATS PAR Symposium

The ATS Public Advisory Roundtable (PAR) is pleased to announce the eighth ATS PAR Symposium to be presented at the ATS International Conference in San Diego on Sunday, May 17, 2009 1:30 p.m. – 4:00 p.m.. The topic of the symposium is “Lung Fibrosis” and it will be jointly chaired by David H. Ingbar, M.D. and Donna J. Appell, RN. The program includes the following:

- New Molecular Targets In Pulmonary Fibrosis - P.B. Bitterman, M.D., Minneapolis, MN
- Patient's Perspective - *TBD*
- Lessons From Pulmonary Fibrosis In Hermansky Pudlak Syndrome NHGRI - B.R. Gochoico, M.D., Bethesda, MD
- Genomics And Pulmonary Fibrosis - J.E. Loyd, M.D., Nashville, TN
- Molecular Diagnostics And Biomarkers In IPF - N. Kaminski, M.D., Pittsburgh, PA
- Where Are We With Clinical Trials In IPF? - *TBD*
- Novel Treatments For Pulmonary Fibrosis: Stem Cells And All That Jazz - L.A. Ortiz, M.D., Pittsburgh, PA
- Wrap-Up Interactive Discussion - D.H. Ingbar, M.D., Minneapolis, MN

The ATS PAR Annual Poster Session will be open from Sunday, May 17 – Tuesday, May 19 2009 in the Exhibit Hall of the San Diego Convention Centre. Public Interest Organizations (PIO's) concerned with lung and sleep disorders will present information about their organizations. A representative from each organization will be present at the poster session to provide additional information.

ATS Public Advisory Roundtable's Third Annual
Breathing Better with the ATS Forum

This is a forum at which patients will have the unique opportunity to network and learn more about their disease.

This year the panelists will focus on oxygen management and quality of life issues.

Panel Includes:

Patrick Strollo, MD

Sam Giordano, MBA, RRT, FAARC

Rell Trey Schwab

If you have any patients in the San Diego area, please encourage them to attend. They will have an opportunity to hear from and network with other patients and experts in the pulmonary community.

May 16, 2009, 1:00 p.m. – 4:00 p.m.

The Manchester Grand Hyatt Hotel located at One Market Place, San Diego, CA

RSVP by: April 30th, 2009 by emailing cwhite@thoracic.org or call

Courtney L. White at (212) 315-8640

Fellows Get First Year of ATS Membership for Free!

ATS is offering a free year of ATS membership to all first-year pulmonology, critical care, sleep fellows and post-doctoral PhD fellows! This special program is intended to welcome fellows to the ATS community. The Society would like these junior entrants to the fields of respiratory medicine to take advantage of the benefits of membership and look to ATS as their professional home for post graduate and continuing medical education, networking on a global scale, and for helping them to serve the needs of patients and the public at large.

Today's fellows will be the research and clinical professionals who will achieve the next major advancement in the science and treatment of pulmonary disease, critical illness and sleep disorders critical to advancing science and practice of the fields.

To learn more about this program, send an e-mail to fellows@thoracic.org or visit the ATS Web site at www.thoracic.org and click "Free Year for Fellows" under the Membership drop down menu. Program directors are encouraged to share this information with their fellows and other colleagues.

**ATS Foundation to Host Inaugural Benefit Dinner for the
ATS Research Program at ATS 2009 in San Diego**

The Board of Trustees of the Foundation of the American Thoracic Society invites you to attend our Inaugural **Gala Dinner** benefiting the ATS Research Program on Saturday, May 16, 2009 in San Diego, California. The **evening** will begin with a **reception** at 7:00 p.m. followed by dinner at 7:45 PM. The **event** will be held at the Manchester Grand Hyatt on the Fourth Level in the Randle Ballroom. During the dinner, we will recognize ATS Research Program **awardees** and honor the **recipients** of the 2009 Breathing for Life Award. Please join us! **Please register early as seating is limited.**

To register for **the conference and reception/dinner** go to:

<http://foundation.thoracic.org/web/ats-research-program-dinner.html>

or call (212) 315-6822 for more information.

RESPIRATORY STRUCTURE AND FUNCTION
ASSEMBLY MEMBERSHIP MEETING

MONDAY MAY 18TH 4:30-6:30 PM
MANCHESTER HYATT HOTEL SAN DIEGO
ELIZABETH BALLROOM A (SECOND LEVEL)

RESPIRATORY STRUCTURE AND FUNCTION
ASSEMBLY MEMBERSHIP MEETING
ASSEMBLY DINNER

MONDAY MAY 18TH 6:30 - 10:30PM
MANCHESTER HYATT HOTEL SAN DIEGO
ELIZABETH BALLROOM B/C (SECOND LEVEL)

The dinner is supported by a generous grant from Merck & Co., Inc.