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PULMONARY • CRITICAL CARE • SLEEP

RESPIRATORY CELL AND MOLECULAR BIOLOGY ASSEMBLY NEWSLETTER

EDITED BY STEVEN L. BRODY, MD, ASSEMBLY CHAIRMAN

SPRING 2008



The RCMB at Toronto 2008

Officers of the Assembly on Respiratory Cell and Molecular Biology

Assembly Chairman
2006-2008: Steven L. Brody
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Welcome. Our mission is “to promote and support the conduct of basic research on mechanisms of lung disease”. **Please join us at our annual meeting and RCMB symposia.**

- **RCMB Assembly meeting:** Please join us on Monday, May 19, 2008, 4:30-6:30 PM at the Sheraton Centre Toronto Hotel, Ballroom Centre (Lower Concourse).
- **The Carol Basbaum Award** will be presented to Carol Feghali-Bostwick, Assistant Professor of Medicine at the University of Pittsburgh. This is awarded to a junior faculty investigator who has submitted an outstanding abstract to the RCMB, demonstrates excellence in research that supports the mission of the RCMB, and emulates the enthusiasm, mentoring, and dedication of Dr. Basbaum. Nominations for next years award may be sent to Chair-elect Zea Borok. Contributions for the award should be sent to the ATS directed toward the “RCMB Carol Basbaum award”.
<http://foundation.thoracic.org>

- **Our meeting agenda:** Fellows and International Travel award presentation to recognize outstanding young researchers and elections of new RCMB leaders will take place at this meeting. We will also discuss new Assembly projects and programming plans.

- **2008 Travel Awards**
Fellow & In-training Awardees:
Meghan K. McCullers, MD, The Ohio State University Medical Center
Yohannes A. Mebratu, PhD, Lovelace Respiratory Research Institute
Huajing Wan, PhD, Cincinnati Children's Hospital

Shivraj S. Tyagi, PhD, Brigham & Women's Hospital

Guofei Zhou, PhD, Northwestern University
Christina Moulakakis, PhD, Research Center Borstel

Chuan Hua He, PhD, Yale University

PAR Travel Awardees:

Rachel K. Hoyles, MD, Royal Free Hospital
Taku Nakashima, MD, Hiroshima University
Emer M. Kelly, MD, Beaumont Hospital
Dublin

- **International Trainee Travel Awardees**
Michael J. Schuliga, University of Melbourne
Jonathan McQualter, Australian Stem Cell Centre, Melbourne
- **Elections**
Candidates for RCMB Program Chair elect:
Oliver Eickelberg, MD, Univ of Geisen, Germany
Tom Mariani, PhD, Brigham and Woman's Hospital, Boston
- **Candidates for Nominating Committee:**
Karen Ridge, PhD, Northwestern Univ, Chicago
Luis Ortiz, MD, Univ of Pittsburgh

RCMB POST-GRADUATE COURSES, SYMPOSIA, AND OTHER SESSIONS FOR TORONTO 08 ARE LISTED IN DETAIL AT THE END OF THIS NEWSLETTER.

We appreciate the work of the RCMB Program Committee and of the membership who submitted proposals. Put these on your schedule:

(Continued on page 2)

The RCMB at Toronto 2008

(Continued from page 1)

- **Featured RCMB Symposia:**
Sunday AM: Epigenetics and Lung Disease
Sunday PM: Autophagic Cell Death in Lung Diseases: An Emerging Paradigm?
Monday AM: Toronto Science and Featured Research 2008

RCMB SUPPORTED PROJECTS:

Work of the membership and the Planning Committee resulted in 2 new RCMB/joint assembly project proposals approved for funding. Please start sharing your ideas for future projects, guidelines, and assembly documents now, applications are submitted in early summer 2008.

- "CareerTalk: The Book" submitted by Angela C.C. Wang, This project will establish the a CD-style book based on the web-column CareerTalk to provides a broad multi-authored discussion of issues important for career choices and development in Pulmonary/Critical Care medicine, academics, and practice. **Copies will be distributed to attendees of the Women's Luncheon, Trainees Reception and the Minority Luncheon at ATS 2008.**
- "International Multidisciplinary Consensus Sub-classification of Adenocarcinoma" submitted by William D. Travis. This project aims to organize

a consensus document to improve guidelines for the specific diagnosis of lung adenocarcinoma and its subtypes. Co-sponsored with the Clinical Problems Assembly

NEW RCMB-DRIVEN FEATURES FOR THE INTERNATIONAL MEETING

- Increasing unopposed thematic poster viewing times by 15 minutes.
- "Clinical Workshops" will be re named "Workshops" to allow us to propose sessions related to laboratory techniques.
- We are working to make the abstract submission deadline later!!!

SUPPORT FOR ATS and ATS FOUNDATION FOR RESEARCH GRANTS

- Please contribute to the ATS FOUNDATION to support grants <http://foundation.thoracic.org>
- Specify contributions to the ATS to the RCMB Assembly to be used for the Carol Basbaum award, given to the top ranked abstract from a junior faculty member <http://foundation.thoracic.org>

CONSIDER RUNNING FOR OFFICE OR SERVING ON THE PROGRAM COMMITTEE

- Contact those of us below to inquire about the activities and opportunities

of serving on the Program or Planning (Project) Committee

See you in Toronto.
Best Regards,

2007-2008 RCMB leadership:

Steven Brody: Assembly Chair
(brodys@wustl.edu)
Zea Borok: Assembly Chair-elect
(zborok@usc.edu)
Lynn Schnapp: Program Committee Chair
(lschnapp@u.washington.edu)
Charles A. Powell: Program Committee Chair-elect
(cap6@columbia.edu)
Tomoko Betsuyaku: Planning Committee Chair:
(bytomoko@med.hokudai.ac.jp)
Courtney Broadus: Nominating Committee Chair
(cbroadus@medsfgh.ucsf.edu)
Angela Wang: WebEditor
(a1wang@mac.com)

Assembly website: <http://www.thoracic.org/sections/about-ats/assemblies/rcmb/index.html> Assembly email: RCMB@thoracic.org

Please consider submitting an Assembly/Committee Project Application for funding in FY2009!

This year for the first time there will be an **Online Application Process** using an electronic grants submission process 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 new comprehensive instructions that have been designed to correspond with the numbered fields within 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 Jesse Roman at jroman@emory.edu.

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

ATS 2008 – Toronto Sessions Sponsored by the Assembly on Respiratory Cell & Molecular Biology

Postgraduate Courses

Friday, May 16, 2008

PG11	MODELING HUMAN LUNG DISEASES: SIMPLE IS SOMETIMES BEST	8:00 AM	-	4:15 PM
PG12	CAREERTALK: THE COURSE	8:00 AM	-	5:00 PM

Postgraduate Courses

Saturday, May 17, 2008

PG26	BIOMARKERS IN THE "OMICS" AGE: FOCUS ON LUNG CANCER AND COPD	8:00 AM	-	4:00 PM
PG27	LUNG DEVELOPMENT AND STEM CELLS	8:00 AM	-	4:00 PM

Symposia

Sunday, May 18, 2008

A5	EPIGENETICS AND LUNG DISEASE	8:15 AM	-	11:00 AM
A89	AUTOPHAGIC CELL DEATH IN LUNG DISEASES: AN EMERGING PARADIGM?	1:30 PM	-	4:15 PM

Monday, May 19, 2008

B5	TORONTO SCIENCE 2008: MECHANISTIC INSIGHTS INTO INFLAMMATION, SIGNALING, AND IMMUNITY	8:15 AM	-	11:00 AM
B85	BEYOND HEMOSTASIS: TARGETING PROCOAGULANT AND FIBRINOLYTIC SIGNALING PATHWAYS IN ACUTE AND CHRONIC LUNG INJURY	1:30 PM	-	4:15 PM

Tuesday, May 20, 2008

C81	SCIENTIFIC BREAKTHROUGHS OF THE YEAR	1:30 PM	-	4:15 PM
C85	THE MATRIX REVISITED: A NEW REALITY?	1:30 PM	-	4:15 PM

Meet the Professors

Sunday, May 18, 2008

MP417	REDEFINING THE CONCEPT OF OXIDATIVE STRESS IN THE LUNG	12:00 PM	-	1:00 PM
MP418	MAST CELLS: THEY ARE NOT JUST FOR ASTHMA ANYMORE	12:00 PM	-	1:00 PM

Monday, May 19, 2008

MP516	IMAGING TECHNIQUES IN RESPIRATORY CELL AND MOLECULAR BIOLOGY	12:00 PM	-	1:00 PM
MP517	SPHINGOLIPID SIGNALING IN THE LUNG	12:00 PM	-	1:00 PM

Tuesday, May 20, 2008

MP617	PRIMARY CELL CULTURES IN LUNG DISEASES: HOW REAL CAN IT BE?	12:00 PM	-	1:00 PM
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Sunrise Seminars

Monday, May 19, 2008

SS118	ADVANCES IN CELL THERAPIES FOR LUNG DISEASES	7:00 AM	-	8:00 AM
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Tuesday, May 20, 2008

SS217	MICRORNAS IN LUNG DISEASE	7:00 AM	-	8:00 AM
SS218	LEARNING THE BASICS: REAL-TIME GENE EXPRESSION ANALYSIS	7:00 AM	-	8:00 AM

ATS 2008 – Toronto Sessions Sponsored by the Assembly on Respiratory Cell & Molecular Biology

Sunrise Seminars

Wednesday, May 21, 2008

SS318	TRANSLATIONAL SYSTEMS BIOLOGY: AN ENGINEERING APPROACH TO PULMONARY DISEASE	7:00 AM	-	8:00 AM
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Mini-Symposia

Sunday, May 18, 2008

A17	ELUCIDATING GENE FUNCTION THROUGH NOVEL TRANSGENIC MOUSE MODELS	8:15 AM	-	11:00 AM
A97	CELL PLASTICITY: EMT AND STEM CELLS	1:30 PM	-	4:15 PM

Monday, May 19, 2008

B96	STEM CELLS IN THE LUNG: RECRUITMENT, ENGRAFTMENT, AND FUNCTION	1:30 PM	-	4:15 PM
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Tuesday, May 20, 2008

C17	NOVEL BIOMARKERS OF LUNG CANCER DIAGNOSIS AND PROGNOSIS	8:15 AM	-	11:00 AM
C18	EFFECTS OF HYPOXIA AT THE CELLULAR AND MOLECULAR LEVEL	8:15 AM	-	11:00 AM

Wednesday, May 21, 2008

D18	NOVEL INSIGHTS INTO THE PATHOGENESIS OF PULMONARY FIBROSIS: LESSONS FROM ANIMAL AND HUMAN STUDIES	8:15 AM	-	11:00 AM
D96	PHYSIOLOGY AND MOLECULAR PATHOLOGY OF ALPHA-1 ANTITRYPSIN AND RELATED SERPINS:	1:30 PM	-	4:15 PM

Poster Discussions

Sunday, May 18, 2008

A29	AIRWAY EPITHELIUM: NEXUS OF INJURY AND REPAIR	8:15 AM	-	11:00 AM
A106	EPIGENETICS: FROM GENE FUNCTION TO DISEASE	1:30 PM	-	4:15 PM

Monday, May 19, 2008

B28	SURFACTANT BIOLOGY	8:15 AM	-	11:00 AM
B107	MUSCLING IN ON FIBROSIS: ALTERATIONS OF THE FIBROBLAST PHENOTYPE	1:30 PM	-	4:15 PM
B108	LUNG CANCER: INFLAMMATION AND IMMUNOTHERAPY	1:30 PM	-	4:15 PM

Tuesday, May 20, 2008

C107	CROSSING THE CHANNEL: ION AND FLUID TRANSPORT	1:30 PM	-	4:15 PM
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Wednesday, May 21, 2008

D27	FUNCTIONAL GENOMICS AND PROTEOMICS	8:15 AM	-	11:00 AM
D108	THE SOUND OF MUCIN	1:30 PM	-	4:15 PM

Thematic Posters

Sunday, May 18, 2008

A65	EPITHELIAL CELL BIOLOGY I	8:15 AM	-	4:15 PM
A66	EPITHELIAL CELL BIOLOGY II	8:15 AM	-	4:15 PM

Monday, May 19, 2008

B64	LUNG CANCER: PATHWAYS IMPORTANT FOR DIAGNOSIS AND THERAPY	8:15 AM	-	4:15 PM
B65	OXIDANTS AND ANTI-OXIDANTS FROM BENCH TO BEDSIDE	8:15 AM	-	4:15 PM

ATS 2008 – Toronto Sessions Sponsored by the Assembly on Respiratory Cell & Molecular Biology

Thematic Posters

Monday, May 19, 2008

B66 OXIDATIVE STRESS AND CELL SURVIVAL 8:15 AM – 4:15 PM

Tuesday, May 20, 2008

C62 STEM CELLS 8:15 AM – 4:15 PM

C63 MECHANISMS OF LUNG INJURY AND REPAIR 8:15 AM – 4:15 PM

Tuesday, May 20, 2008

C64 FIBROBLAST BIOLOGY: BACK TO THE BASICS 8:15 AM – 4:15 PM

C65 PATHOGENESIS OF PULMONARY FIBROSIS: BASIC MECHANISMS OF DISEASE 8:15 AM – 4:15 PM

Wednesday, May 21, 2008

D46 SIGNALING PATHWAYS 8:15 AM – 4:15 PM

Patients to Speak at Fourteen Designated ATS International Conference Symposia

The ATS Public Advisory Roundtable (ATS PAR) has selected patients to provide a patient perspective at fourteen symposia at the 2008 ATS International Conference Symposia. This concept has worked exceptionally well within the format of the PAR Symposium for the last six years and at an increasing number of sessions at the 2004, 2005, 2006 and 2007 International Conferences.

This is the fifth 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; to address their 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
BS	A7	Obesity and it's Impact on Lung Health Across the Lifespan	Sunday, May 18 8:15-11:00 am
CP	A82	COPD Exacerbations: Epidemiology, Prevention and Treatment	Sunday, May 18 1:30-4:15 pm
RNS	A85	Sleep Medicine Grand Rounds	Sunday, May 18 1:30-4:15 pm
Joint CP-RCMB-RSF	A90	Lung Cancer Translational Research: Integrating Innovations for Diagnosis and Treatment	Sunday, May 18 1:30-4:15 pm
CP	B2	IPF: Issues in Management from Diagnosis to Transplant	Monday, May 19 8:15-11:00 am
NRSG	B9	Pulmonary Rehabilitation: Different Settings for Different Needs	Monday, May 19 8:15-11:00 am
PC	B88	Novel Therapeutic Targets for Reverse Remodeling Pulmonary Arterial Hypertension: From Bench to Bedside	Monday, May 19 1:30-4:15 pm
Joint BS-AII-CC	B89	Status Asthmaticus	Monday, May 19 1:30-4:15 pm
RNS	C10	Sleep Apnea as a Mechanism of Atherosclerosis: From Bench to Bedside	Tuesday, May 20 8:15-11:00 am

Patients to Speak at Fourteen Designated ATS International Conference Symposia

ASSEMBLY	SESSION CODE	TITLE	DATE/TIME
EOH	C86	Candidate Interactions for Asthma and COPD	Tuesday, May 20 1:30-4:15 pm
RNS	D6	Finding a Home for Portable Monitor Testing in Sleep Apnea	Wednesday, May 21 8:15-11:00 am
PED	D7	Personalized Medicine: The Future of Asthma Care	Wednesday, May 21 8:15-11:00 am
CP	D82	Living to Adulthood with Cystic Fibrosis: Current Concepts in Disease Management	Wednesday, May 21 1:30-4:15 pm
BS	D85	Asthma Severity vs. Asthma Control: What Should we Use in Clinical Practice? A Pro/Con Debate	Wednesday, May 21 1:30-4:15 pm

ATS PAR Symposium

The ATS Public Advisory Roundtable (PAR) is pleased to announce the seventh ATS PAR Symposium to be presented at the ATS International Conference in Toronto on Tuesday, May 20th from 8:15-11:00 a.m. The topic will be "Rebuilding the Pulmonary Patient - From Laboratory to Lifestyle" chaired by John E. Heffner, MD and Donna J. Appell, RN. The program includes the following:

- ◆ Reevaluation, Rehabilitation and Resiliency: An Alpha-1 Patient's Journey from Diagnosis and Lung Transplant to Today -Len Geiger, Jacksonville, FL
- ◆ Cellular and Molecular Strategies for Rebuilding the Lungs of the Pulmonary Patient - Dan Weiss, MD, Burlington, VT

- ◆ The Role of Inflammation as a Limiting Factor in Pulmonary Rehabilitation - Annemie Schols, MD, Maastricht, The Netherlands
- ◆ Targeting Skeletal Muscles in Pulmonary Rehabilitation" - Francois Maltais, MD, Ancienne-Lorette, QC Canada
- ◆ Strategies for Post-Hospital Rehabilitation After Critical Illness - Margaret Herridge, MD Toronto, ON Canada
- ◆ Benefits of Pulmonary Rehabilitation on the Critical Care Patient: My Top 10 List" - Dee Storey, Saginaw,
- ◆ The New Evidence Base for Rehabilitation in Chronic Respiratory Disease - Andrew Ries, MD, San Diego, CA
- ◆ Putting the Patient in Charge: the

- Benefits of Self-Management Education- Jean Bourbeau, MD, Montreal, QC Canada
- ◆ Disease Modification Strategies in Chronic Lung Disease: Implications for Pulmonary Rehabilitation - Barthelemy Celli, MD, Wellesley, MA

The ATS PAR Annual Poster Session will be open from Sunday, May 18 until Tuesday, May 20, 2008 in the Exhibit Hall of the Metro Toronto 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 Second 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 pulmonary rehabilitation and its benefits.

Panel Includes:

Roger S. Goldstein, MD; Richard ZuWallack, MD; Suzanne C. Lareau, RN, MS, FAAN; Len Geiger

If you have any patients in the Toronto 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 17th, 2008, 1:00 p.m. - 4:00 p.m.

The Sheraton Centre Toronto Hotel located at 123 Queen Street West Toronto, Canada

RSVP by: April 30th, 2008 by emailing par@thoracic.org or call Karen Belgiovine 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 newly launched 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.

RESPIRATORY CELL & MOLECULAR BIOLOGY
ASSEMBLY MEMBERSHIP MEETING

MONDAY MAY 19TH 4:30-6:30 PM
SHERATON CENTRE TORONTO HOTEL
BALLROOM CENTRE (LOWER CONCOURSE)