

Assembly on the Pulmonary Circulation

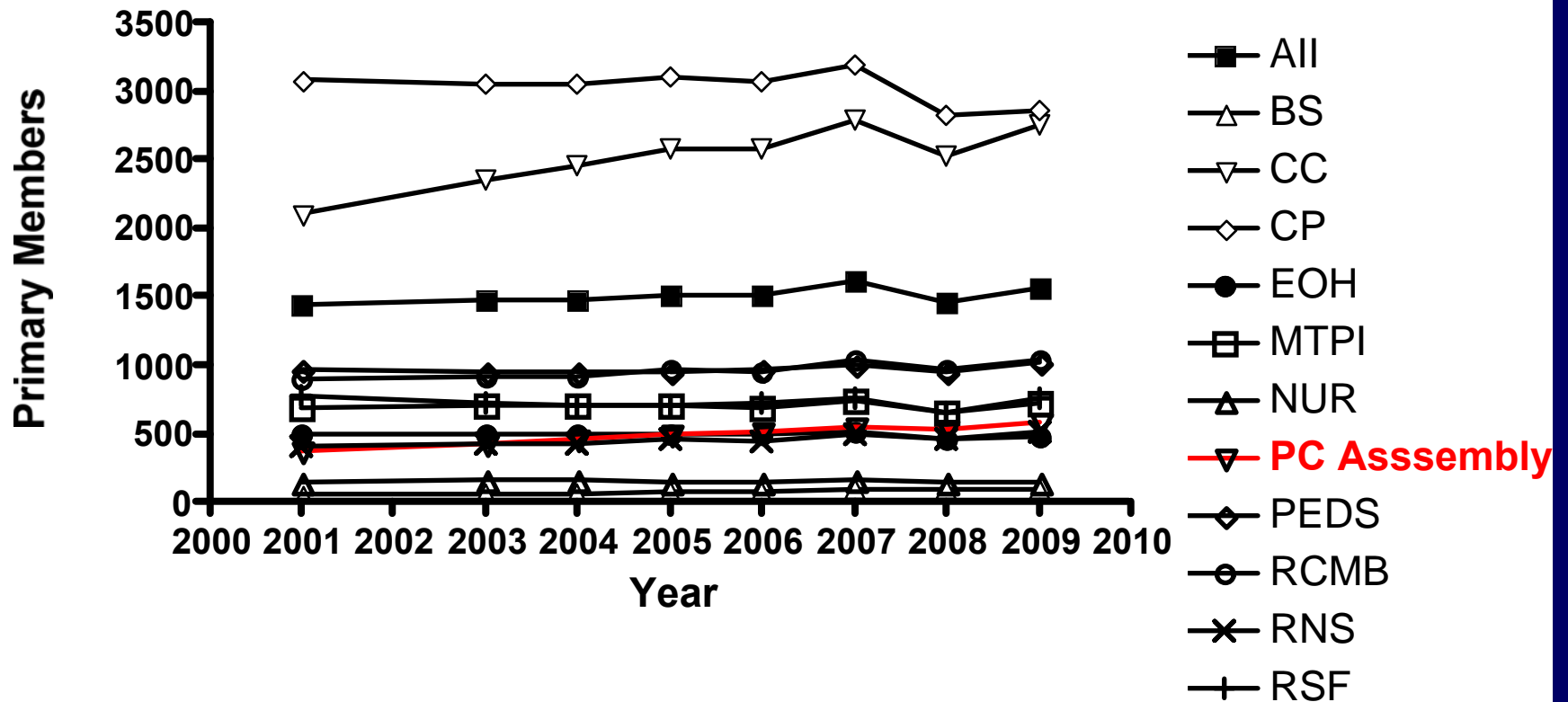
Status and Activities - 2010

Assembly on the Pulmonary Circulation

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PC Assembly Membership: 2001-2009

Creeping Up



“The PC assembly is concerned with the physiology, cellular and molecular biology and clinical aspects of the pulmonary circulation and interrelations between respiration and the pulmonary circulation.”

**Draft “Primer” on ATS
Assemblies, 2010**

Leadership

PC Executive Committee		
Assembly Chair	Mark N. Gillespie, PhD	Mobile, AL
Assembly Chair Elect	Paul M. Hassoun, MD	Baltimore, MD
Immediate Past Chair	Jahar Bhattacharya, MD	New York, NY
Program Chair	Nicholas W. Morrell, MD	Cambridge CB2 2QQ, United Kingdom
Program Chair-Elect	Elizabeth O. Harrington, PhD	Providence, RI
Planning Chair	Jeremy P. Ward, PhD	London SE1 1UL, United Kingdom
Nominating Chair	Larissa A. Shimoda, PhD	Baltimore, MD
Web Director	Diego F. Alvarez, MD, PhD	Mobile, AL
Journal Club Editor	Rachel Damico, MD, PhD	Baltimore, MD
Grover Organizer	Margaret R. Maclean, PhD	Glasgow G12 8QQ, United Kingdom



Paul



Nick

Are we doing a good job programming our part of the ICC?

Are we providing our members meaningful opportunities for professional interactions?

Are we recruiting new members?

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PC Assembly: 2010 Conference



**Karen Fagan, M.D.
Program Cmt Chair
2009-10**

- **1 Postgraduate conference**
- **4 Scientific symposia**
- **3 Meet-the-Professor sessions**
- **3 Sunrise seminars**
- **4 Mini-symposia**
- **4 Poster-discussion sessions**
- **11 Thematic poster sessions**

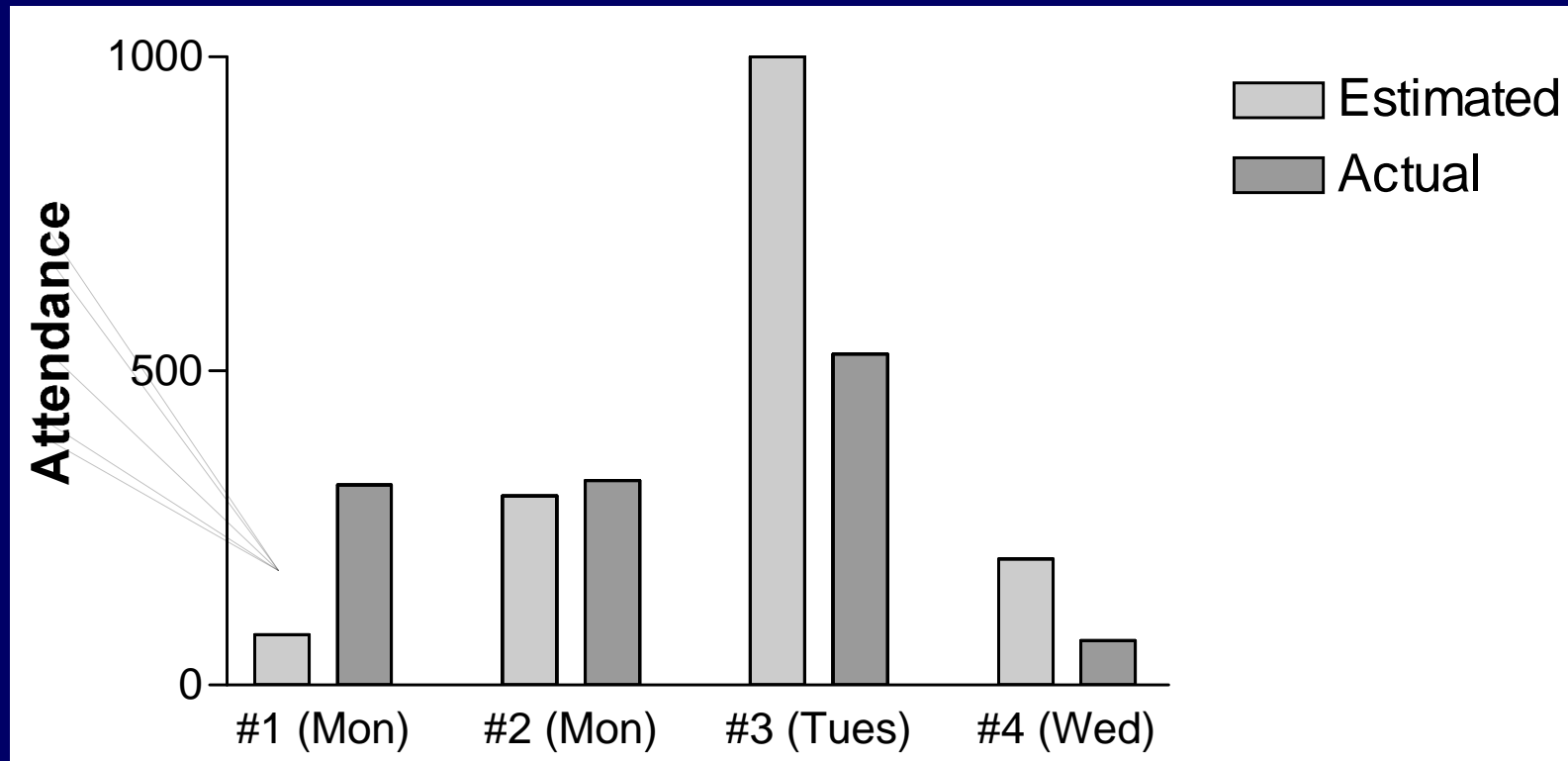
Assessment of PC Sessions: 2010 ICC

Rank	Session Title	Ave. Score	N
1	(C6) EPIDEMIOLOGY OF PULMONARY HYPERTENSION: LESSONS FROM CONTEMPORARY REGISTRIES	4.61	65
2	(MP615) PULMONARY HYPERTENSION: REAL-LIFE CASES	4.57	19
3	(D7) HOW DOES BMPR2 MUTATION LEAD TO PULMONARY ARTERIAL HYPERTENSION?	4.56	32
4	(B89) RESCUING THE RIGHT VENTRICLE IN PULMONARY VASCULAR DISEASE	4.52	77
5	(SS213) NON PAH PH	4.48	15
6	(MP415) SCLERODERMA ASSOCIATED PAH: BENCH TO BEDSIDE	4.38	13
7	(MP515) HEMODYNAMIC EVALUATION OF PATIENTS WITH PULMONARY HYPERTENSION	4.31	16
8	(SS114) OSA ASSOCIATED PULMONARY HYPERTENSION: EPIDEMIOLOGY AND CLINICAL SIGNIFICANCE	4.31	26
9	(A89) LIPID MEDIATORS IN PATHOGENESIS AND RESOLUTION OF ACUTE LUNG INJURY	4.29	62
10	(SS313) HORMONES, HYPOXIA, AND INHERITANCE: MECHANISMS OF SEX DIFFERENCES IN PULMONARY HYPERTENSION	4.08	3

Top 4 Mini-Symposia/Poster-Discussion Sessions in terms of *Attendance* at 2010 ICC

- 1. Pulmonary arterial hypertension: From assessing risk to therapeutic results (512)**
- 2. Genomics in critical care: Coming of age (400)**
- 3. Translational research in interstitial lung disease (375)**
- 4. Best of Pediatrics 2010 (310)**

PC Symposia Attendance at 2010 ICC



Suggested Future Topics - 2010 ICC

Pulmonary Arterial Hypertension

Gender issues and Pulmonary Arterial Hypertension

I would like more clinical guidance on management of pulmonary

Management of pulmonary hypertension in different pediatric pop
children. Pulmonary hemorrhage and hemoptysis in children. Hyp

More about pulmonary hypertension.

more PH

more topics on pulmonary hypertension, sleep disorder, lung can

PAH

pulm htn

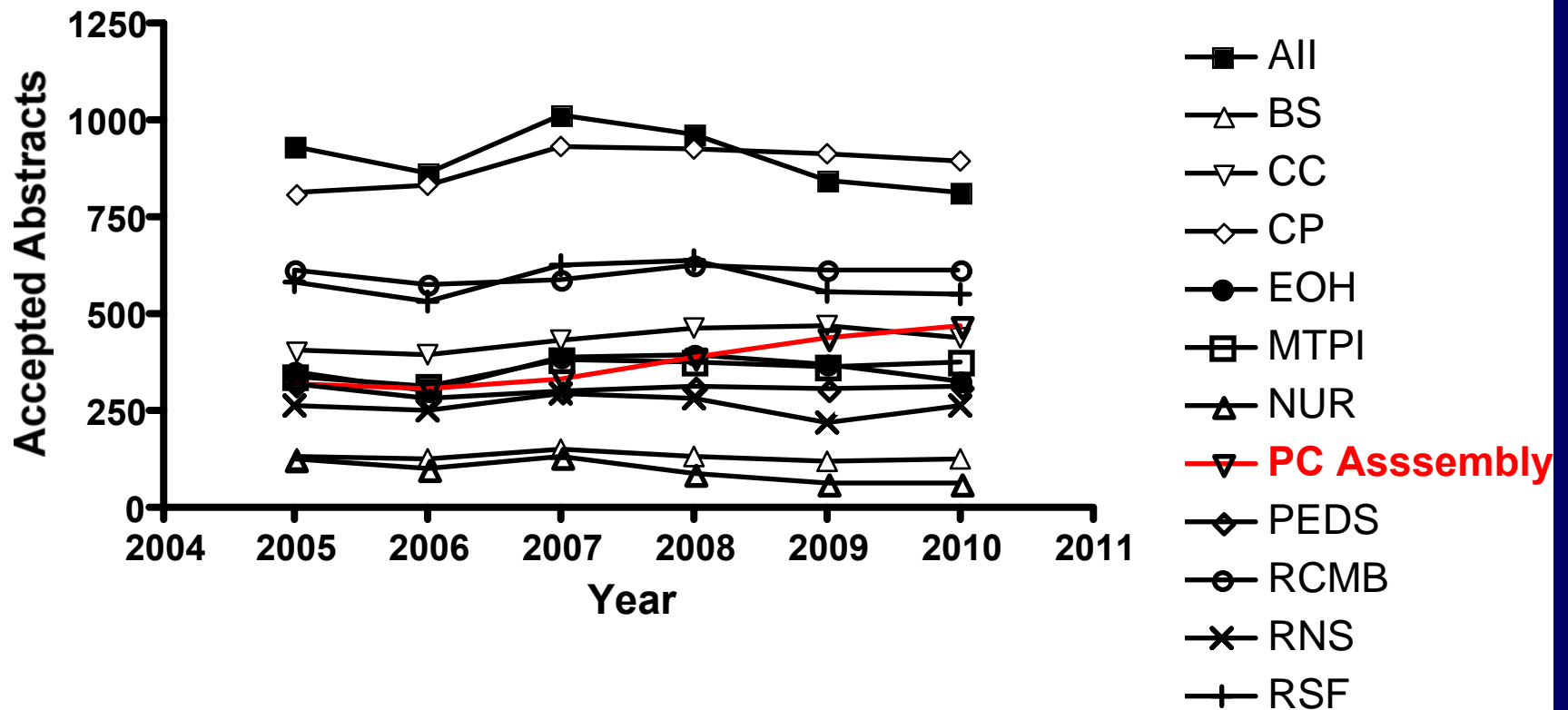
Pulmonary arterial hypertension idiopathic interstitial pneumonia

pulmonary complications of down syndrome and of sickle cell

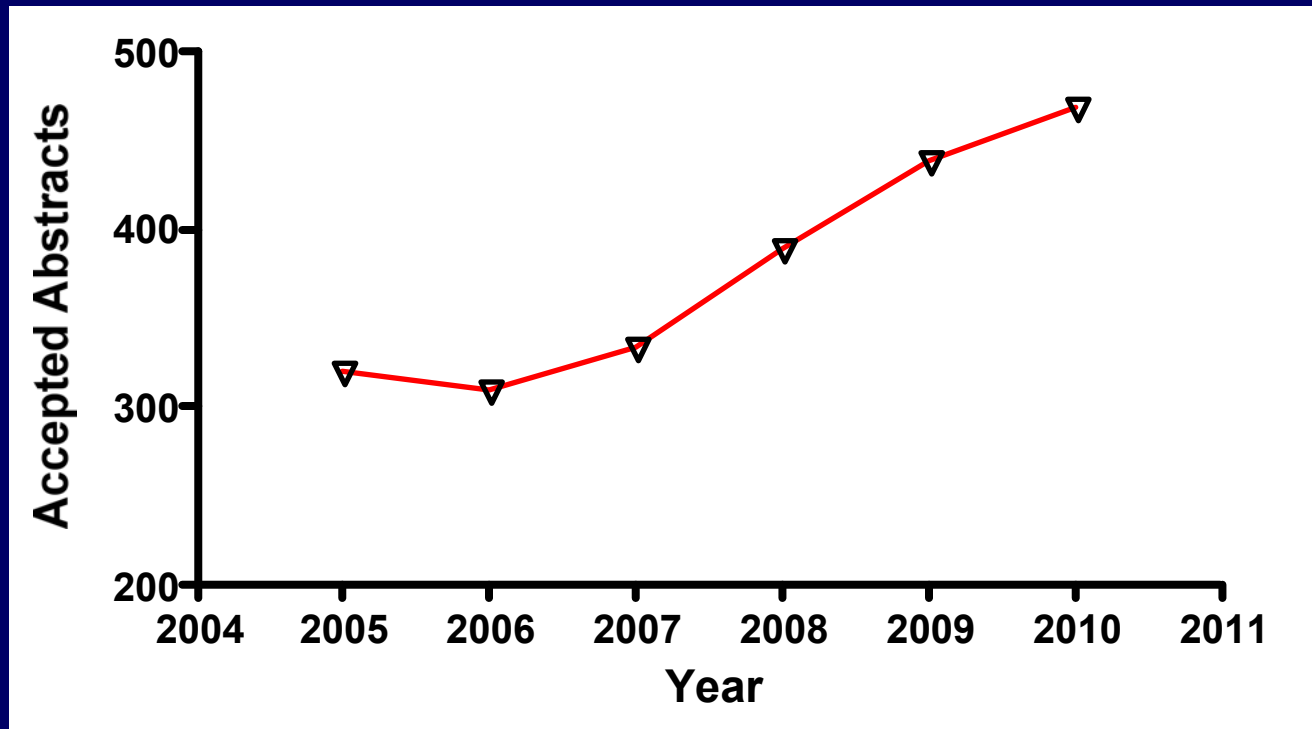
pulmonary embolism

PC Assembly Abstracts: 2005-2010

Creeping Up



PC Assembly Abstracts: 2005-2010



Are we doing a good job programming our part of the ICC?

Satisfactory, but we have certain challenges...

PC Assembly:

Clinical and Experimental Interests, ca. 2002

- Hemodynamics of the pulmonary circulation and cor pulmonale
- Pathology of the pulmonary circulation
- Relation to vasoactive humoral agents
- Pulmonary capillary physiology and edema
- Vascular smooth muscle
- Endothelial cells and lung metabolic functions
- Thrombo-embolism, clinical and experimental
- Relations between central nervous and autonomic nervous systems and the pulmonary circulation
- Inter-relations between respiration and pulmonary circulation

PC Assembly:

Clinical and Experimental Interests, ca. 2007

- Hemodynamics of the pulmonary circulation and cor pulmonale
- Pathology of the pulmonary circulation (PAH)
- Relation to vasoactive humoral agents
- Pulmonary capillary physiology and edema (ALI/ARDS)
- Pulmonary vascular smooth muscle and endothelial cell biology
- Lung vascular metabolic functions
- Thrombo-embolism
- Relations between central nervous and autonomic nervous systems and the pulmonary circulation
- Inter-relations between respiration and pulmonary circulation
- **Genomics and proteomics of PAH, ALI/ARDS, PE**
- **Stem/progenitor cells in the pulmonary circulation**
- **Imaging in pulmonary vascular disease**

Areas of interest that may have significant overlap with other Assemblies...

- Hemodynamics of the pulmonary circulation and **cor pulmonale**
- Pathology of the pulmonary circulation (**PAH**)
- Relation to vasoactive humoral agents
- Pulmonary capillary physiology and edema (**ALI/ARDS**)
- Pulmonary vascular smooth muscle and endothelial **cell biology**
- Lung vascular metabolic functions
- Thrombo-embolism
- Relations between central nervous and autonomic nervous systems and the pulmonary circulation
- Inter-relations between respiration and pulmonary circulation
- **Genomics and proteomics** of PAH, ALI/ARDS, PE
- **Stem/progenitor cells** in the pulmonary circulation
- Imaging in pulmonary vascular disease

Obstacle to effective programming:

- Assemblies tend to compete for abstract topics viewed as “overlapping”.
- Competition is motivated, in part, by the fact that the number of symposia allocated to an assembly is dictated by the number of abstracts submitted to the categories linked to a given assembly.
- A *single “no”* vote from an assembly program chair is sufficient to block introduction of a new topic category.

A simple solution...

- Introduction of a new topic category determined by *majority vote* of Assembly program chairs.
- Number of topics per Assembly is fixed; Introduction of new topic must be linked to deletion of old topic category.

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Wiltz Wagner

Opportunities for Professional Interactions:

1999:

- **Regularly scheduled executive committee conference calls**
- **Grover Prize**
- **Leadership award**

2000: Reception prior to business meeting

2010: Assembly dinner



Rachel Damico, MD, PhD

Journal Club & Website



Diego Alvarez, MD, PhD

“The New Year has brought to our Assembly a new ‘face’. **An innovative and remodeled web site is finally accessible for all ATS members.** In this new web site, you will have access to previously published content, as well as new material that has expanded the scope of interest in order to appeal to a broader audience. We invite you to take the time to surf through the new website, and visit the renewed PC web page and its associated links.”



This Journal Club has been a unique opportunity for members of the PC assemblies to communicate about intriguing and significant contemporary literature. We hope that the journal club will provide a venue to encourage scientific dialogue between ATS members and provide opportunities for intellectually stimulating interactions within the ATS community.

- Signal transduction and cytoskeleton- Dr. Mahendra Damarla, Johns Hopkins
- Novel therapeutic targets, biomarkers, and diagnostic modalities- Dr. Micah Fischer, Emory University
- Novel therapeutic targets, biomarkers, and diagnostic modalities- Dr. James Finnegan, Case Western
- Genetics/Genomics- Dr. Dimitry Grigoryev, Johns Hopkins
- Endothelial permeability- Dr. Stephanie Nonas, University of Oregon
- Right Ventricle- Dr. Anna Hemnes, Vanderbilt
- Vascular Remodeling- Dr. Roham Zamanian, Stanford University
- Vascular Tone/Hypoxic Vasoconstriction- Dr. Tim Lahm, Indiana University

Tentative Special Topics - TBA

Vascular heterogeneity

Endothelial Microparticle

Cell Fate in Vascular Remodeling

Adaptive vs. Maladaptive RV Hypertrophy

Sickle cell vas

Other PC Activities on the Web...

CME case presentation:

- Ready to launch at the end of this year.
- Analysis of case “bundles” selected and written by junior faculty, reviewed by “veterans”, and endorsed by the PC Assembly.
- Published on-line and in the *Proceedings*.

The Grover Conference

- A scientific meeting held every 2 years at the Lost Valley Ranch in Deckers, Colorado
- Focused on some aspect of the pulmonary circulation
- Typically jointly sponsored by ATS, AHA, NIH, and industry

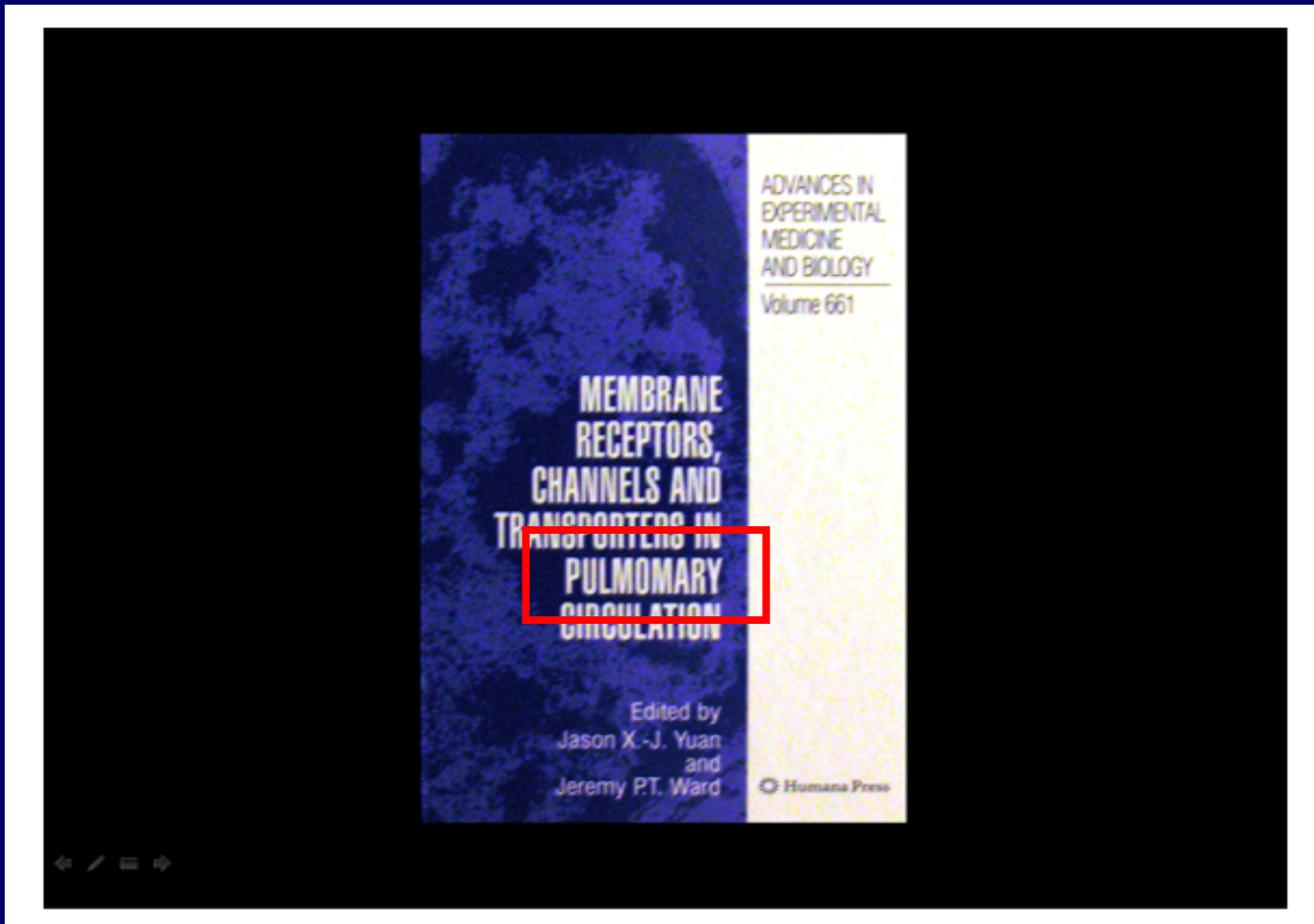
Grover Conference - 1984



Grover Conference 2008

Chairs: Jeremy P. T. Ward & Jason X-J Yuan

- 4-day conference on the role of membrane receptors, ion channels, and transporters and their role(s) in the development of pulmonary vascular disease.
- The goal was to focus discussion on how this knowledge may lead to novel interventions in lung dysplasia, pulmonary edema, lung injury (ARDS), and pulmonary and systemic hypertension.



Great Science, Bad Spelling

2011 Grover Conference

Risk factors in pulmonary hypertension: gender, sex hormones, obesity, novel genetic influences and risk factors



Margaret Maclean, Ph.D.

<http://groverconference.org>

When: September 7-11, 2011

**Where: Lost Valley Ranch and
Conference Center, Deckers, CO**

Organization:

- Session I (Part I): Genetic risk factors
- Session I (Part II): Obesity as a risk factor
- Session II (Part I): Endogenous factors and PAH
- Session III (Part I): Estrogen metabolism and disease penetrance
- Session III (Part II): Sex hormones as a risk factor
- Session IV: Risk factors in pulmonary hypertension: gender, sex hormones, obesity, novel genetic influences, and novel risk factors
- Session V: Risk Factors and responsiveness to current and emerging therapies

Are we providing our members meaningful opportunities for professional interactions?

Satisfactory...but there are certain challenges.

Certain challenges....

- **How do we deal with issues surrounding Pharma support?**
- **Meeting sites; “Resort” versus “Convention Center”**

Grover Conference: After the Sessions



Certain challenges....

- **How do we deal with issues surrounding Pharma support?**
- **Meeting sites; “Resort” versus “Convention Center”**
- **When to do things as an Assembly versus a Society...**
- **The constant need to “keep things new” ...**

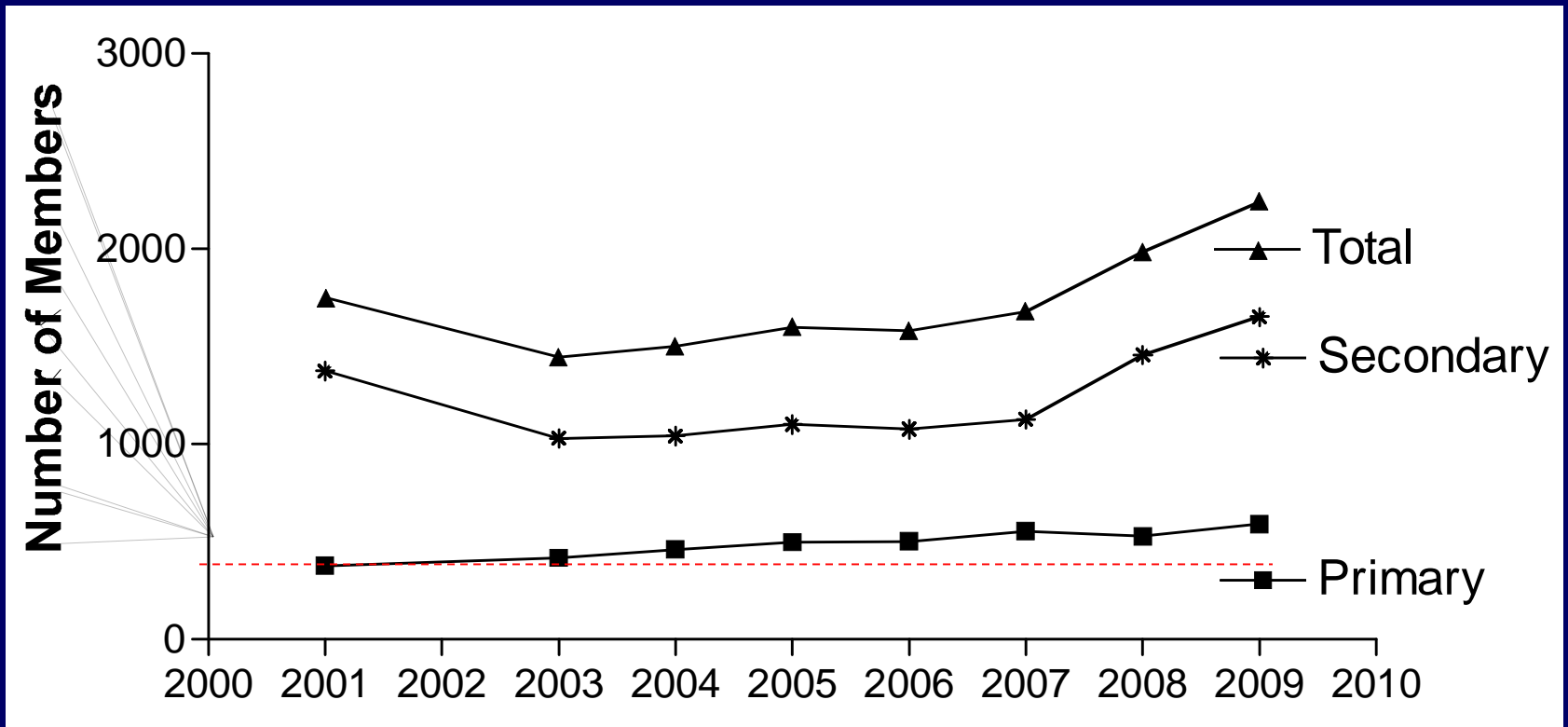
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PC Assembly Membership: 2001-2009

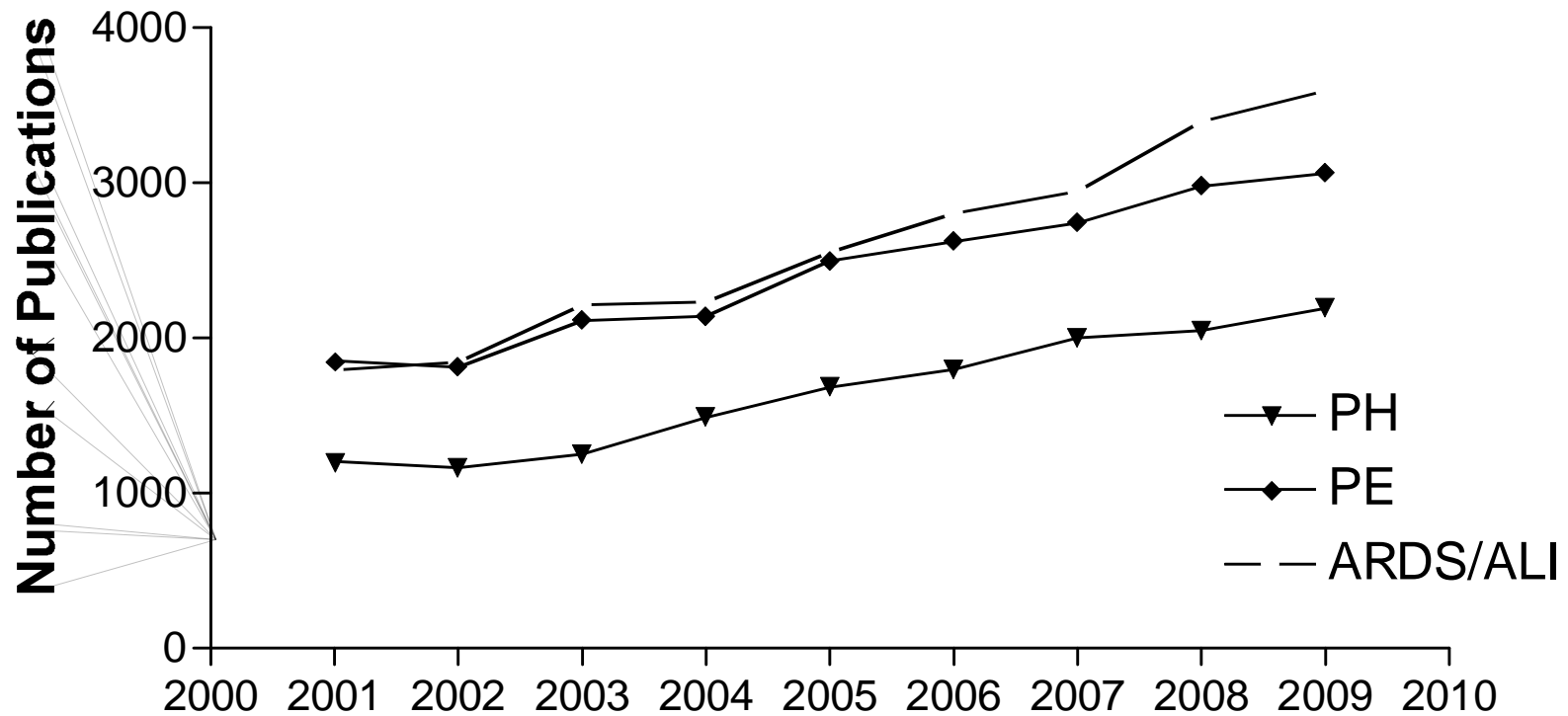
Creeping Up



Are we recruiting new members?

- Not at a high rate.
- We are benefiting from recruitment into other Assemblies through secondary affiliations.
- There may be some opportunities...

Publication rates in PC Interest Areas: 2001-2009



Ideas for expanding PC Assembly membership...

- “Member bring a member” (Target trainees in Pulmonary and Crit Care Medicine divisions with academic/clinical programs focusing on PC interest areas).
- ≈15% of ATS members are unaffiliated with any assembly (How to contact?).
- Other scientific disciplines (e.g., physiology, pharmacology, etc.)

Summary

- **Are we doing a good job programming our part of the ICC?**

Satisfactory. Need improved procedures for introducing timely and topical abstract categories.

- **Are we providing our members meaningful opportunities for professional interactions?**

Satisfactory. Various policy matters need clarification.

- **Are we recruiting new members?**

Not well enough. Intense, targeted recruitment effort needed, although the value of non-primary members cannot be overstated.

Special thanks to...

- the PC leadership committee for innovative and critical input during the monthly conference calls.
- *Miriam Rodriguez* and the ATS staff for generous and always-available support.



PC Assembly: Objectives

- A.** To provide intra-assembly mechanisms for communication on the Pulmonary Circulation within the American Thoracic Society.

- B.** To collect, interpret and disseminate data concerning clinical and research aspects of the pulmonary circulation.

- C.** To stimulate research in pulmonary circulation.

- D.** To promote interdisciplinary planning for clinical pulmonary circulatory aspects of patients with lung disease.