

THE LAM FOUNDATION / NHLBI  
2007 INTERNATIONAL RESEARCH CONFERENCE



HILTON CINCINNATI NETHERLAND PLAZA HOTEL  
FRIDAY, APRIL 20 – SUNDAY, APRIL 22, 2007  
SCIENTIFIC SCHEDULE

CONFERENCE CHAIR, FRANCIS X. MCCORMACK, MD  
BASIC SCIENCE CHAIR, CHERYL WALKER, PhD - CLINICAL SCIENCE CHAIR, GERALDINE FINLAY, MD

FRIDAY MORNING, APRIL 20<sup>TH</sup> – 7:30AM–12:00PM

PAVILLION–LEVEL IV

SESSION I: ORIGINS OF LAM

Session Chair: *Joel Moss, MD, PhD, National Heart, Lung, and Blood Institute*

- 7:30 – 7:55 CONTINENTAL BREAKFAST  
7:55 – 8:00 Frank McCormack, MD: Welcome  
8:00 – 8:05 Comments by Chair and Patient Intro  
8:05 – 8:10 Comments by LAM patient Tish Davey  
8:10 – 8:35 Frank McCormack, MD: “LAM Overview”  
8:35 – 9:15 Cheryl Walker, MD, PhD: Cytoplasmic sequestration of P27: Implications for ER signaling in LAM  
9:15 – 9:45 Raymond Boissy, PhD: “Expression of melanocyte specific proteins and growth factor receptors in tissue and cultured cells from lymphangioliomyomatosis”  
9:45 – 10:15 BREAK  
10:15 – 10:45 Elizabeth Henske, MD: “Evidence for an extra-pulmonary origin of LAM”  
10:45 – 11:15 Ellis Levin, MD: “Cell signaling via nuclear hormone receptors”  
11:15 – 11:30 Katsuhiko Kita, PhD: “TSC deficiency may cause misregulation of cellular asymmetry through adenomatous polyposis coli tumor suppressor protein and microtubule”  
11:30 – 11:45 Tiffany Whitney, BS: “Active remodeling in LAM as revealed by serial analysis of gene expression (SAGE)”  
11:45 – 12:00 Julia Zhe Zhu, MD, PhD: “Essential role of Rheb in estrogen-induced growth of TSC2 deficient cells”  
12:00 – 1:00 LUNCH

ROOKWOOD

FRIDAY AFTERNOON, APRIL 20<sup>TH</sup> – 1:00PM–5:30PM

PAVILLION–LEVEL IV

SESSION II: OPPORTUNITIES AND OBSTACLES FOR TREATING LAM PATIENTS

Session Chair: *Aristotelis Astrinidis, PhD, Fox Chase Cancer Center*

- 1:00 – 1:05 Comments by Chair and Patient Intro  
1:05 – 1:15 Comments by LAM patient Heather Telford  
1:15 – 1:55 Gordon Mills, MD, PhD: “Integration of the growth factor and energy sensing pathways as potential therapeutic targets”  
1:55 – 2:25 John Bissler, MD: “Cincinnati Rapamycin Trial”  
2:25 – 2:50 David Rodman, MD: “LAM Trials: A pharmaceutical perspective”  
2:50 – 3:15 BREAK

- 3:15 – 3:45 David Kwiatkowski, MD, PhD: “Preclinical studies with rapamycin analogs”  
 3:45 – 4:15 Lewis Cantley, PhD: “Regulation of metabolism and growth by the PI3K/TSC/mTOR pathway”  
 4:15 – 4:45 Geraldine Finlay, MD: “Statins: Potential therapeutic agents for LAM?”  
 4:45 – 5:00 Judith Black, MD, PhD: “Doxycycline inhibits proliferation and MMPs in LAM-derived cells”  
 5:00 – 5:15 Mark Davies, MD: “A study of the efficacy and safety of sirolimus (rapamycin) therapy for renal angiomyolipomas in patients with tuberous sclerosis complex and sporadic lymphangiomyomatosis”  
 5:15 – 5:30 Po Shun Lee, MD: “Rapamycin-resistant production of matrix metalloproteinases by TSC-null MEF lines and a human AML line”

**FRIDAY AWARDS BANQUET / DESSERT SOCIAL – 6:30PM–9:45PM**

**HALL OF MIRRORS–LEVEL III**

- 6:30 – 6:40 Welcome/Special Presentations Leslie Sullivan-Stacey, President/CEO  
 6:40 – 6:50 Musical performance Ray Yeung, MD, Pianist  
 6:50 – 7:50 DINNER  
 7:50 – 8:10 New Scientific Initiatives at The LAM Foundation Frank McCormack, MD, Scientific Director  
 8:10 – 8:40 Patient/Scientific Award Presentations Leslie Sullivan-Stacey, President/CEO  
 8:40 – 8:45 Musical performance Ray Yeung, MD, Pianist  
 8:45 – 9:45 DESSERT SOCIAL FOR ALL ATTENDEES HALL OF MIRRORS FOYER–LEVEL III

**SATURDAY MORNING, APRIL 21<sup>ST</sup> – 7:30AM–12:05PM**

**PAVILLION–LEVEL IV**

**SESSION III: THE PLACE OF TSC1/TSC2 IN THE WORLD OF CELL SIGNALING**

**Session Chair:** *Vera Krymskaya, PhD, University of Pennsylvania*

- 7:30 – 7:55 CONTINENTAL BREAKFAST  
 7:55 – 8:00 Comments by Chair and Patient Intro  
 8:00 – 8:05 Comments by LAM patient Eden Pontz  
 8:05 – 8:35 Pier-Paolo Pandolfi, MD, PhD: “Overview of PI3K signaling”  
 8:35 – 9:05 George Thomas, PhD: “Nutrient sensing and TSC”  
 9:05 – 9:35 David Sabatini, MD, PhD: “Signaling by the mTORC1 and mTORC2 pathways”  
 9:35 – 10:05 Andrew Tee, PhD: “Hypoxia inducible factor 1 alpha is regulated by the mammalian target of rapamycin (mTOR) via an mTOR signalling motif”  
 10:05 – 10:20 BREAK  
 10:20 – 10:50 Brendan Manning, PhD: “Altered signaling and cellular metabolism upon loss of the TSC genes”  
 10:50 – 11:20 Mien-Chie Hung, MD, PhD: “Cell signaling pathways that target hamartin”  
 11:20 – 11:35 Primal de Lanerolle, PhD: “Role of myosin light chain kinase in LAM cell physiology”  
 11:35 – 11:50 Blanco Camoretti-Mercado, PhD: “Interaction between tuberin and serum response factor: Potential role in LAM”  
 11:50 – 12:05 Elizabeth Barnes, PhD: “The loss of tuberin promotes cell detachment and invasion through the beta-catenin pathway”  
 12:05 – 2:00 BOXED LUNCH /POSTER SESSION PAVILLION/CAPRICE–LEVEL IV

**SATURDAY AFTERNOON, APRIL 21<sup>ST</sup> – 2:00PM–5:00PM**

**PAVILLION–LEVEL IV**

**SESSION IV: REGULATION OF CELL PROLIFERATION**

**Session Chair:** *Blanca Camoretti-Mercado, PhD, University of Chicago*

- 2:00 – 2:05 Comments by Chair and Patient Intro  
 2:05 – 2:10 Comments by LAM patient Ashley Tollett  
 2:10 – 2:35 Celeste Simon, PhD: “Hypoxia, mTOR, and tumor progression”  
 2:35 – 3:00 Robert Strieter, MD: “Circulating mesenchymal progenitor cells: Their role in pulmonary fibrosis and as potential progenitor cells for myofibroblasts”  
 3:00 – 3:25 Aristotelis Astrinidis, PhD: “Regulation of centrosome function by TSC1/TSC2”  
 3:25 – 3:40 BREAK

- 3:40 – 4:05 Victor Thannickal, MD: “Idiopathic Pulmonary Fibrosis: A model for benign proliferative lung disease”  
4:05 – 4:30 Raymond Yeung, MD: “Cell trafficking defects associated with loss of tuberlin function”  
4:30 – 4:45 James Brugarolas, MD, PhD: “Hypoxia regulation of mTORC1”  
4:45 – 5:00 Jane Yu, PhD: “Estrogen promotes pulmonary metastasis of tuberlin- deficient ELT3 cells—a xenograft model of lymphangioliomyomatosis”

**SATURDAY EVENING – BREATH OF HOPE GALA – 6:00PM–12:00AM**

**Gala Chair:** *Laureen McCorkle*

6:00 – 7:30 Silent Auction

**ROOKWOOD & HALL OF NATIONS– LEVEL IV**

7:30 – 12:00 Dinner/Program/Dancing

**PAVILLION/CAPRICE–LEVEL IV**

**SUNDAY MORNING, APRIL 22<sup>ND</sup>– 8:30AM–10:00AM**

**PAVILLION–LEVEL IV**

**Session Chair:** *Cheryl Walker, PhD, MD Anderson Cancer Center*

8:30 – 10:00 Working breakfast to discuss future directions for LAM

***Mark Your Calendars!***

**The LAM Foundation 2008 International Research Conference**

***April 18-20, 2008 - Cincinnati, Ohio***