

LAM / TSC HORMONE SUMMIT 2008

Overview: The LAM/TSC Hormone Summit will bring together experts in LAM and TSC with leaders in fields relevant to understanding the influence of hormones in both diseases. The smooth muscle-like cells that invade the lung to cause LAM are also present in the renal angiomyolipomas in both TSC and LAM and seen in lymph nodes and other organs in individuals with both diseases. Given the distinct sex bias in LAM (only a few cases reports of LAM in men with TSC whereas ~40% of women with TSC develop LAM, and sporadic LAM only occurs in women), we will discuss the cell of origin, the influence of hormones on the function of these cells, and the research initiatives needed to advance this important area of investigation.

Dates: March 5 - 6, 2008

Location: Harvard Medical School, New Research Building, Room #1030F

LAM / TSC HORMONE SUMMIT DELEGATES:

- Eli Adashi, MD, Brown University
- John J. Bissler, MD, Cincinnati Children's Hospital Medical Center
- Myles Brown, MD, Dana Farber Cancer Institute/Harvard Medical School
- Kari Luther Carlson, Tuberous Sclerosis Alliance
- Jennifer Cook, PhD, Dana Farber Cancer Institute/Harvard Medical School
- Ian Eslick, Massachusetts Institute of Technology Media Lab, Cambridge, MA
- Justin Fallon, PhD, Brown University
- Amy Farber, PhD, LAM Treatment Alliance/Harvard Medical School
- Geraldine Finlay, MD, Tufts New England Medical Center
- Lisa Henske, MD, Fox Chase Cancer Center
- David Kwiatkowski, MD, PhD, Brigham & Women's Hospital/Harvard Medical School.
- Joel Moss, MD, PhD, National Institutes of Health (NIH) National Heart, Lung, and Blood Institute (NHLBI)
- E. Kirk Neely, MD, Stanford University
- John Nicholson, MD, Tuberous Sclerosis Alliance
- Michael Nurok, MD, PhD, Brigham & Women's Hospital/Harvard Medical School
- Gustavo Pacheco, PhD, National Institutes of Health (NIH) National Heart, Lung, and Blood Institute (NHLBI)
- Mustafa Sahin, MD, PhD, Children's Hospital Boston
- Stewart Sell, MD, Wadsworth Center and Ordway Research Institute/New York State Health Department
- Elizabeth Thiele, MD, PhD, Massachusetts General Hospital/Harvard Medical School
- Cheryl Lyn Walker, PhD, University of Texas MD Anderson Cancer Center
- Vicky Whittemore, PhD, Tuberous Sclerosis Alliance

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MARCH 5, 2008 (9:45 am – 5:00 pm)

- ▶ 9:45am – 10:00am **Light Breakfast** (NRB Room #1030F)
 - ▶ 10:00am – 10:05am **Introductions**
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SECTION I.

The Influence of Hormones on the Function of Pathogenic Cells in LAM and TSC

- ▶ 10:05am – 10:10am **Introduction**
Lisa Henske, MD
 - A. INSIGHTS FROM THE CLINIC
 - ▶ 10:10am – 10:25am **Sex Differences in TSC**
Elizabeth Thiele, MD, PhD
 - ▶ 10:25am – 10:40am **Gender and Angiomyolipomata in TSC**
John Bissler, MD
 - ▶ 10:40am – 10:55am **LAM and Hormone-Related Issues**
Joel Moss, MD, PhD
 - ▶ 10:55am – 11:25am **Facilitated Discussion**
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B. INSIGHTS FROM SPECIAL PERIODS OF DEVELOPMENT

- ▶ 11:25am – 11:55am **Endocrine-Related Changes During Special Periods of Development (i.e. in utero, during puberty, and pregnancy)**
E. Kirk Neely, MD
 - ▶ 11:55am – 12:30pm **Discussion**
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▶ LUNCH 12:30pm – 1:15pm

SECTION II.

Cell of Origin/ Cell Type/ Theory of Disease

- ▶ 1:15pm – 1:20pm **Introduction**
- ▶ 1:20pm – 1:55pm **Current Theory of Disease Overview; Estrogen Signaling via TSC2; Estrogen Promoting Metastasis in an Animal Model**
Lisa Henske, MD
- ▶ 1:55pm – 2:10pm **Cellular Stress Pathways in Tuberous Sclerosis Deficient Cells**
Mustafa Sahin, MD

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- ▶ 2:10pm – 2:35pm **Receptors and Tissue Sensitivity at the Molecular Level: Relevant Receptors and Pathways in LAM/TSC Tissues**
Myles Brown, MD

 - ▶ COFFEE BREAK 2:35pm – 2:50pm

 - ▶ 2:50pm – 4:15pm **Facilitated Discussion**
 - ▶ 4:15pm – 5:00pm **Day 1 Wrap-Up: Focus on Research Initiatives Needed to Advance Critical Next Steps**
 - ▶ 6:30pm – 8:30pm **Dinner: Jae's Grill**
(1226 Beacon Street, Brookline, MA 02446 617-739-0000)
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MARCH 6, 2008 (8:15 am – 11:30 am)

SECTION III
Research Initiatives to Advance Critical Next Steps

- ▶ 8:15am – 8:30am **Light Breakfast** (NRB Room #1030F)
 - ▶ 8:30am – 9:00am **Introduction & Key Points from Sessions 1 & 2**
 - ▶ 9:00am – 10:45am **Brainstorming Research Initiatives**
 - ▶ 11:00am – 11:30am **Mapping Concrete Next Steps**
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