

2021 International TSC & LAM Research Conference Agenda

(All times: Eastern Daylight Time, United States)

THURSDAY, OCTOBER 28, 2021

10:00 AM – 12:10 PM: Cell biology, metabolism, and cellular communication in TSC and LAM

Session Chairs: Marina Holz, PhD & Mark Nellist, PhD

10:00 – 10:10 AM	Opening remarks and TSC/LAM community speaker – Kari Luther Rosbeck, President & CEO, TSC Alliance, introducing TBD
10:10 – 10:40 AM	Kathrin Thedieck, PhD (University of Innsbruck) – Stress granule proteins meet TSC-mTOR signaling: an unexpected mechanism of lysosomal TSC tethering
10:40 – 10:55 AM	Adam Pietrobon (Ottawa Hospital Research Institute) – Three-dimensional drug screen identifies HDAC inhibitors as therapeutic agents in a tissue-engineered model of lymphangioleiomyomatosis
10:55 – 11:10 AM	Uchenna Unachukwu, PhD (Columbia University) – Novel neural crest markers characterize tumors in <i>Tsc2</i>^{+/-} mouse model of TSC
11:10 – 11:25 AM	Krinio Giannikou, PhD (Brigham and Women's Hospital) – Kidney angiomyolipomas are defined by a unique transcriptional profile and H3K27ac chromatin state
11:25 – 11:40 AM	Mayoa Amosu (University of Maryland, College Park) – Intranasal administration of CpG increases survival and counters immunosuppression in a murine model of metastatic lymphangioleiomyomatosis (LAM)
11:40 AM – 12:10 PM	Vivi M. Heine, PhD (Amsterdam UMC) – Neuron-glia iPSC models for TSC
12:10 – 12:40 PM	<i>Break</i> – opportunity for Sponsored Exhibit Time

12:40 – 3:00 PM: TOPIC-BASED DISCUSSION: Extracting meaning from multiomics datasets: How do we bring together multiomics data? What is the question we are trying to answer?

Session Moderator: Rebecca A. Ihrie, PhD (Vanderbilt University)

12:40 – 1:20 PM	Panelist presentations Rebecca A. Ihrie, PhD (Vanderbilt University) Vera P. Krymskaya, PhD, MBA (University of Pennsylvania) Peter E. Davis, MD (Boston Children's Hospital) Yan Xu, PhD (University of Cincinnati)
1:20 – 1:50 PM	Moderated Q&A
1:50 – 2:30 PM	Breakout Discussions
2:30 – 3:00 PM	Breakout Report Back

3:00 – 4:00 PM: POSTER SESSION 1 AND EXHIBITS OPEN

FRIDAY, OCTOBER 29, 2021

10:00 AM – 12:10 PM: Predicting and preventing manifestations of TSC and LAM

Session Chairs: Carmen Priolo, MD, PhD & Peter Tsai, MD, PhD

10:00 – 10:10 AM	Opening remarks and TSC/LAM community speaker – Sue Sherman, CEO, The LAM Foundation, introducing TBD
10:10 – 10:40 AM	Simon Johnson, DM (University of Nottingham) – Predicting and preventing manifestations of TSC and LAM
10:40 – 10:55 AM	I. Caroline LePoole, PhD (Northwestern) – A PDX model of adoptive T cell therapy to treat lymphangioleiomyomatosis
10:55 – 11:10 AM	Anushka Palipana (University of Cincinnati) – Predicting individualized lung disease progression in lymphangioleiomyomatosis
11:10 – 11:25 AM	Katarzyna Klonowska, PhD (Brigham and Women's Hospital) – UV mutation drives a high prevalence of subclinical facial tumors in TSC – focus on mutation signatures
11:25 – 11:40 AM	Mary Beth Brown, PT, PhD (University of Washington) – Blood oxygen saturation during a mobile health exercise program in women with lymphangioleiomyomatosis
11:40 AM – 12:40 PM	Keynote Address – Daphne Koller, PhD (Insitro, Inc.) – Transforming drug discovery using digital biology
12:40 – 12:50 PM	<i>Break</i>

12:50 – 3:00 PM: TOPIC-BASED DISCUSSION: Informing and enabling clinical trials, from bench to randomized clinical trials

Session Moderator: Nishant Gupta, MD (University of Cincinnati)

12:50 – 1:30 PM	Panelist Presentations
	Kevin C. Ess, MD, PhD (Vanderbilt University) Dean Aguiar, PhD (TSC Alliance) Elizabeth P. (Lisa) Henske, MD (Brigham and Women's Hospital) Ajamete "Aj" Kaykas, PhD (Insitro, Inc.)
1:30 – 2:00 PM	Moderated Q&A
2:00 – 2:40 PM	Breakout Discussions
2:40 – 3:00 PM	Breakout Report Back

3:00 – 4:00 PM: POSTER SESSION 1 AND EXHIBITS OPEN

SATURDAY OCTOBER 30, 2021

10:00 AM – 11:55 AM: Clinical, translational, and basic research for epilepsy

Session Chairs: Tanjala Gipson, MD & Brenda Porter, MD, PhD

10:00 – 10:10 AM	Opening remarks and TSC/LAM community speaker – Kari Luther Rosbeck, President & CEO, TSC Alliance, introducing TBD
10:10 – 10:40 AM	Helen Bateup, PhD (University of California, Berkeley) - The multi-faceted roles of TSC-mTOR signaling in neural development, function, and disease
10:40 – 10:55 AM	Lena Nguyen, PhD (Yale University) – Juvenile 4E-BP1 expression attenuates epilepsy and neurophysiological abnormalities associated with mTOR hyperactivation in mice
10:55 – 11:10 AM	Mary Bronwen Chalkley (Vanderbilt University) – Early neurodevelopment and cytoarchitecture is altered in TSC
11:10 – 11:25 AM	Vasiliki Karalis (University of California, Berkeley) – Raptor downregulation rescues neuronal phenotypes in mouse models of TSC
11:25 – 11:55 AM	Jamie K. Capal, MD (University of North Carolina) – Clinical, translational, and basic research for epilepsy
11:55 AM – 12:30 PM	Break – opportunity for Sponsored Exhibit Time

12:30 – 2:00 PM: CLOSING PANEL SESSION

Panel Moderators: Rebecca A. Ihrie, PhD & Nishant Gupta, MD

Panelists: Session Chairs and Co-Chairs from the UK Tuberous Sclerosis Association June 2021 Conference

Early-Career Researcher Symposium Agenda

(All times Eastern Daylight Time, United States)

SATURDAY, OCTOBER 30, 2021

Theme of Session: Selling Science

2:05 – 2:10 PM	Opening remarks and TSC/LAM community speaker – Charilaos (Harry) Filippakis, PhD (Brigham and Women's Hospital) & Gerta Hoxhaj, PhD (UT Southwestern) introducing Kendall Shields
2:10 – 3:00 PM	Talks selected from abstracts
2:10 – 2:20 PM	Bailey Fessler (University of Cincinnati College of Medicine) – Prevalence of thoracoabdominal imaging findings in tuberous sclerosis complex
2:20 – 2:30 PM	Rohit Khurana (Vanderbilt University) - Computational identification of balloon cells in whole slide images of cortical tubers
2:30 – 2:40 PM	Shikshya Shrestha, PhD (Brigham and Women's Hospital) – ETV2 is a critical regulator of cell death in Tsc2-deficient cells
2:40 – 2:50 PM	Group discussion of the talks
2:50 – 3:00 PM	Introduction of Career Development Panel <ul style="list-style-type: none">• Rebecca Ihrle, PhD (Vanderbilt)• Mark Keezer, MD, PhD (Université de Montréal Hospital Centre)• Gina Lee, PhD (University of California, Irvine)• Dario Lemos, PhD (Brigham and Women's Hospital)• Alexander Valvezan, PhD (Rutgers)
3:00 – 3:30 PM	Workshop-style activities with Career Development Panel
3:30 – 3:55 PM	Open Q&A with Career Development Panel
3:55 – 4:00 PM	Wrap up
4:00 – 4:30 PM	Open Zoom for networking (<i>optional</i>)