

## 2019 INTERNATIONAL TSC RESEARCH CONFERENCE AGENDA

JUNE 20	DAY ONE, THURSDAY	
2:00-6:00 pm	Welcome and Plenary Session 1 (Churchill Ballroom) Session Chairs: Steven L. Roberds, PhD; Elizabeth P. Henske, MD	
2:00-2:15 pm	Opening Remarks and TSC Community Speaker – Karen Shulist, TS Canada ST, and introducing Katie Duffy	
2:15-2:45 pm	pm Arnold Kristof, MDCM, FRCPC, McGill University - Research priorities for lymphangioleiomyomato	
2:45-3:15 pm	Thomas N. Darling, MD, PhD, Uniformed Services University of the Health Sciences – What the skin is telling us about TSC	
3:15-3:45 pm	Carmen Priolo, MD, PhD, Brigham and Women's Hospital – Understanding TSC metabolic reprogramming through molecular imaging	
3:45-4:00 pm	Aristotelis Astreinidis, PhD, University of Tennessee –  EMT as a driver of rapalog non-responsiveness in TSC	
4:00-4:30 pm	BREAK (Churchill Court)	
4:30-5:00 pm	Sergiusz Józwiak, MD, PhD, Children's Memorial Health Institute – <b>Epileptogenesis in TSC - lessons learnt from the EPISTOP study</b>	
5:00-5:30 pm	Kevin C. Ess, MD, PhD, Vanderbilt University – Cell autonomous and non-cell autonomous abnormalities from TSC patient derived stem cells	
5:30-5:45 pm	Peter Davis, MD, Boston Children's Hospital – Clinical features and functional connectivity measures associated with epilepsy risk in infants with tuberous sclerosis	
5:45-6:00 pm	John Blair, MSc, University California, Berkeley – Single cell transcriptomics of a human brain organoid model of tuberous sclerosis	
6:00-8:45 pm	Reception and Dinner (Mountbatten Lane & Salon) Emcee - Kari Luther Rosbeck, TS Alliance Presentation of the Vicky H. Whittemore Travel Awards - Elizabeth P. Henske, MD, Brigham and Women's Hospital and Michael Wong, MD, PhD, Washington University Presentation of Manuel R. Gomez Award - Doug Loftus Keynote Address - David N. Franz, MD, Cincinnati Children's Hospital - Tuberous sclerosis complex: treating an "untreatable" disease	

JUNE 21	DAY TWO, FRIDAY	
8:00-11:45 am	Plenary Session 2 <i>(Churchill Ballroom)</i> Session Chairs: Michael Wong, MD, PhD; Carmen Priolo, MD, PhD	
8:00-8:15 am	Community Speaker - Karina Stormfeldt Hjarsen, introduced by Ary Agami	
8:15-8:45 am	Elizabeth P. Henske, MD, Brigham and Women's Hospital – Tumor microenvironment of TSC and LAM	
8:45-9:15 am	Michael Borchers, PhD, University of Cincinnati – Natural killer cell phenotype and function in LAM	
9:15-9:30 am	Rebecca Ihrie, PhD, Vanderbilt University – Single-cell snapshot proteomics reveal an intrinsic, differential susceptibilit development within a persistent stem cell niche	
9:30-9:45 am	You Feng, PhD, Brigham and Women's Hospital – Therapeutic targeting of the autotaxin pathway in TSC	
9:45-10:15 am	BREAK (Churchill Court)	
4		

## 2019 INTERNATIONAL TSC RESEARCH CONFERENCE



JUNE 21	DAY TWO, FRIDAY (CONT.)
10:15-10:45 am	William L. Stanford, PhD, Ottawa Hospital Research Institute – Stem cell models identify proteasome inhibition as a potential therapeutic for tuberous sclerosis neural but not mesenchymal tumors
10:45-11:15 am	Patrick Bolton, PhD, FRCPsych, King's College London –  Early neurocognitive predictors of neurodevelopmental outcome in TSC
11:15-11:30 am	Elizabeth A. Thiele, MD, PhD, Massachusetts General Hospital – A randomized controlled trial of cannabidiol (GWP42003-P, CBD) for seizures in tuberous sclero complex (GWPCARE6)
11:30-11:45 am	Angela Peron, MD, University of Milan – Sleep disorders in children and adolescents with tuberous sclerosis
11:45 am-12:45 pm	Lunch Provided (Mountbatten Salon)
12:45-1:45 pm	Plenary Session 3 (Churchill Ballroom) Session Chairs: Arnold Kristof, MDCM, FRCPC; Angélique Bordey, PhD
12:45-1:15 pm	Jonathan Lipton, MD, PhD, Boston Children's Hospital – The circadian clock as a capacitor for pathogenic mechanisms in tuberous sclerosis complex?
1:15-1:30 pm	Pranetha Baskaran, PhD, Kings College London – Unkempt is a novel downstream regulator of mTOR signaling in mammalian neurogenesis
1:30-1:45 pm	Nicola Alesi, MD, Brigham and Women's Hospital –  A model for the pathogenesis of bone lesions in tuberous sclerosis complex
1:45-2:00 pm	MOVE TO BREAKOUT WORKING GROUPS
2:00-3:30 pm	Breakout Working Groups
	Induced pluripotent stem cell applications for TSC (Seymour) Leader: Peter Crino, MD, PhD, University of Maryland
	Genetic heterogeneity and modifiers (Carlyle) Leader: David J. Kwiatkowski, MD, PhD, Brigham and Women's Hospital
	Clinical trial design for neurological aspects of TSC (Scott A & B) Leader: Darcy A. Krueger, MD, PhD, Cincinnati Children's Hospital
3:30-4:00 pm	BREAK (Churchill Court)
4:00-6:00 pm	Plenary Session 4 (Churchill Ballroom) Session Chairs: Shafali S. Jeste, MD; Andrew Tee, PhD
4:00-4:30 pm	Mustafa Sahin, MD, PhD, Boston Children's Hospital -  Mechanism based biomarker and treatment trials in the neurology of TSC
4:30-5:00 pm	John J. Bissler, MD, FAAP, FASN, Le Bonheur Children's Hospital – Insights into TSC renal disease and treatment
5:00-5:15 pm	Polina Kosillo, PhD, University of California, Berkeley – Tsc1-mTOR signaling controls the structure and function of midbrain dopamine neurons
5:15-5:45 pm	Report on Breakout Working Groups
5:45-6:00 pm	One-Minute Poster Previews
6:00-7:30 pm	Poster Session and Reception (Mountbatten Lane and Salon)



JUNE 22	DAY THREE, SATURDAY
8:00-11:45 am	Plenary Session 5 (Churchill Ballroom) Session Chairs: Hilaire C. Lam, PhD; Kevin C. Ess,
8:00-8:15 am	Community Speaker - Lisa Moss, introduced by
8:15-8:45 am	Angélique Bordey, PhD, Yale University – Silencing tuber neurons reduces seizure activity
8:45-9:15 am	Wei Shi, MD, PhD, Children's Hospital Los Angele Lung mesenchyme-specific deletion of Tsc2 res nodular lesions
9:15-9:30 am	Michael Wong, MD, PhD, Washington University The role of hypothalamic orexin and mTORC1 a model of TSC
9:30-9:45 am	Krinio Giannikou, PhD, Brigham and Women's Ho Genomic landscape of SEGAs: unique gene exp
9:45-10:15 am	BREAK (Churchill Court)
10:15-10:45 am	Shafali S. Jeste, MD, University of California, Los Early prediction and intervention for neurodevelo
10:45-11:15 am	Jeff MacKeigan, PhD, Michigan State University – Exploring vulnerabilities in signaling networks to
11:15-11:30 am	Heng Du, MD, Brigham and Women's Hospital – Targeting mTOR/JUN/AXL pathway in TSC-rela
11:30-11:45 am	Helen Bateup, PhD, University of California, Berk Synaptic alterations in the striatum drive TAND
11:45 am-12:45 pm	Lunch Provided (Mountbatten Salon)
12:45-2:15 pm	Plenary Session 6 (Churchill Ballroom) Session Chairs: Joao García Martínez, MD; Jeff Ma
12:45-1:15 pm	David J. Kwiatkowski, MD, PhD, Brigham and Wor Targeting transcriptional addiction in TSC: CDK; cells and tumors through NFE2L2 and glutathio
1:15-1:45 pm	Andrew Tee, PhD, Cardiff University - Dissection of the anti-tumor activity of cannabi
1:45-2:00 pm	Ji Wang, PhD, Brigham and Women's Hospital - Interleukin-6, a pro-inflammatory cytokine, pro
2:00-2:15 pm	Jamie Capal, MD, Cincinnati Children's Hospital – Language predictors of ASD in tuberous scleros
2:15-2:45 pm	BREAK (Churchill Court)
2:45-4:00 pm	Joint Session: The future of clinical trials in TSC Session Chairs: Elizabeth P. Henske, MD; Michae Panelists: Cathy Evanochko, TS Canada ST; Rayu University Health Network; Chris Kingswood, ME Eva Schoeters, be-TSC; Maria Zak, NP, Hospital for CIR Biomédicas Autonomous University of Yucat