

**Annual Symposium**  
**Big Data - Big Impact**  
**Tuesday, February 12, 2019**  
**The Saban Research Building Auditorium**  
**4661 Sunset Blvd., Los Angeles, CA 90027**

8-8:45 a.m.	<b>Continental Breakfast and Check-in</b> The Saban Research Building lobby
8:45-9 a.m.	<b>Symposium Welcome</b> Pat Levitt, PhD, The Saban Research Institute of Children's Hospital Los Angeles; Keck School of Medicine of the University of Southern California (USC) Paul S. Viviano, President and Chief Executive Officer, Children's Hospital Los Angeles

*Session 1*

9-9:50 a.m.	<b>Pediatric Translational Research Using Clinically Generated Data</b> Sara L. Van Driest, MD, PhD, Vanderbilt University
9:50-10:40 a.m.	<b>A Cellular and Molecular Paradigm for Understanding Human Brain Function and Specialized Properties</b> Ed Lein, PhD, Allen Institute for Brain Science; University of Washington
10:40-11 a.m.	<b>Morning Break</b>

*Session 2*

11-11:20 a.m.	<b>Single-Cell Profiling of the Transcriptomic Response to RB Loss in the Retinoblastoma Cell of Origin</b> Sunhye Lee, PhD, The Saban Research Institute of CHLA
11:20 a.m.-12:10 p.m.	<b>Pediatric Cancer Precision Medicine: The Impact of Big Data</b> Elaine R. Mardis, PhD, The Ohio State University
12:10-12:30 p.m.	<b>Population and Tumor Heterogeneity in Cancer Genome Science</b> John D. Carpten, PhD, Keck School of Medicine of USC
12:30-1:30 p.m.	<b>Lunch</b> Anita S. Watson Courtyard of The Saban Research Building

*Session 3*

1:30-2:20 p.m.	<b>Accelerating Movement Science with Big Data</b> Scott L. Delp, PhD, Stanford University
2:20-2:40 p.m.	<b>Big Data in the Era of Lifecare</b> Leslie A. Saxon, MD, Keck School of Medicine of USC
2:40-3 p.m.	<b>Human-Robot Interaction for Data-Driven Personalized Care</b> Maja J. Matarić, PhD, Viterbi School of Engineering of USC
3-3:20 p.m.	<b>Afternoon Break</b>
3:20-3:40 p.m.	<b>Clinical and Research Informatics at CHLA: Current State and Next Steps</b> Juan Espinoza, MD, The Saban Research Institute of CHLA; Keck School of Medicine of USC
3:40-4 p.m.	<b>Places, Social Determinants of Health, and Electronic Health Records</b> John P. Wilson, PhD, Dornsife College of Letters, Arts and Sciences of USC
4-4:15 p.m.	<b>Panel Discussion: Big Data - Big Impact in the Next Ten Years</b>
4:15-4:20 p.m.	<b>Closing Remarks</b> Randolph W. Hall, PhD, Vice President of Research; Daniel J. Epstein Department of Industrial and Systems Engineering, USC
4:20-5 p.m.	<b>Reception</b> Anita S. Watson Courtyard of The Saban Research Building

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**Questions? Email [TECPAD@chla.usc.edu](mailto:TECPAD@chla.usc.edu)**