Over the past several years, the Hippo tumor suppressor pathway has emerged as a complex signaling network that has significant implications for our understanding of the molecular mechanisms of cancer development and stem cell biology. The main effectors of this pathway, YAP and TAZ, are transcriptional co-activators, which act as stemness factors and potent oncogenes. Recent studies have revealed that abnormal expression of components of the network can lead to cancer. Therefore, the pathway and its networking molecules are attractive targets for the development of cancer drugs and unconventional therapeutic interventions. Several paradoxes have emerged in the field in recent years, and fast progress in this field is due, in large part, to an active dialog between Drosophila geneticists and mammalian signalers. The overwhelming interest of researchers in the function of the Hippo pathway in stem cells and cancer prompted us to seek a larger forum. At the Keystone Symposia meeting on The Hippo Tumor Suppressor Network we aim to: (i) Define why YAP and TAZ function as either oncogenes or tumor suppressors; (ii) Identify membrane complexes, which activate the Hippo pathway in mammals, as the orthology with the fly receptors is not clear; (iii) Define targets for small molecule inhibitors and activators within pathway components based on structured modules, including WW, PDZ and SARAH domains. The meeting will be unique in bringing together Drosophila geneticists, basic and clinical cancer researchers, and the stem cell research community. We anticipate that this meeting will help to consolidate the emerging field and have an impact on development of new cancer therapies.

**Session Topics:**
- Membrane and Upstream Signals
- Hippo in Flies and Mammals: Orthology and Diversity
- Junctional Complexes and the Hippo Pathway
- Hippo Network in Organ Size Control
- Deregulation of Hippo Pathway in Cancer
- From Structure-Function Analysis to Details of the Mechanisms that Govern Hippo Signaling

**Abstract & Scholarship Deadline:** January 17, 2013
**Late-Breaking Abstract Deadline:** February 18, 2013
**Early Registration Deadline:** March 19, 2013

Note: Scholarships are available to students and postdoctoral fellows and require a brief application and submission of an abstract. Short talk speakers will also be selected from abstracts. Early registration saves US$150 on later fee. Information shown is subject to possible change.
**SUNDAY, MAY 19**

**Arrival and Registration**

**MONDAY, MAY 20**

**Welcome and Keynote Address**

*Joseph L. Kissil*, The Scripps Research Institute, USA  
*Kun-Liang Guan*, University of California, San Diego, USA  
*Yosef Shaul*, Weizmann Institute of Science, Israel

**Membrane and Upstream Signals**

*Nicolas Tapon*, Francis Crick Institute, UK  
*Helen McNeill*, Lunenfeld-Tanenbaum Research Institute, Canada  
*Fernando D. Camargo*, Boston Children’s Hospital, USA  
*Tony Pawson*, Samuel Lunenfeld Research Institute, Canada  
*Jacob J. Adler*, Indiana University School of Medicine, USA  
*Isabel Serrano*, British Columbia Cancer Research Center, Canada  
*Yael Aylon*, Weizmann Institute of Science, Israel

**Hippo in Flies and Mammals: Orthology and Diversity**

*Helen McNeill*, Lunenfeld-Tanenbaum Research Institute, Canada  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Duojia D.J. Pan*, HHMI/Johns Hopkins University School of Medicine, USA  
*Jeffrey Schindler*, Massachusetts Institute of Technology, USA

**Hippo Network in Organ Size Control**

*Kenneth Irvine*, Rutgers University, USA  
*Georgina C. Fletcher*, Cancer Research UK, UK  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Hiroshi Sasak*, Wyss Institute at Harvard University, USA  
*Georgina C. Fletcher*, Cancer Research UK, UK  
*Bernhard Schermer*, University Hospital of Cologne, Germany  
*Jeroen Smits*, University of Padua, Italy  
*Diana D. Shao*, Harvard Medical School, USA  
*Kenneth Irvine*, Rutgers University, USA

**Deregulation of Hippo Pathway in Cancer**

*Georg A. Halder*, Katholieke Universiteit Leuven, Belgium  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Kieran F. Harvey*, Peter MacCallum Cancer Centre, Australia  
*Yael Aylon*, Weizmann Institute of Science, Israel  
*Georgina C. Fletcher*, Cancer Research UK, UK

**Poster Session 1**

**TUESDAY, MAY 21**

**Junctional Complexes and the Hippo Pathway**

*Filippo G. Giancotti*, Memorial Sloan-Kettering Cancer Center, USA  
*Sabrina Strano*, Regina Elena National Cancer Institute, Italy  
*Joseph L. Kissil*, The Scripps Research Institute, USA  
*Wanjin Hong*, Institute of Molecular and Cell Biology, Singapore

**Poster Session 2**

**WEDNESDAY, MAY 22**

**Preimplantation Embryos**

*Helen McNeill*, Lunenfeld-Tanenbaum Research Institute, Canada  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Ken Zohar*, Weizmann Institute of Science, Israel  
*Kenneth Irvine*, Rutgers University, USA  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Georgina C. Fletcher*, Cancer Research UK, UK  
*Bernhard Schermer*, University Hospital of Cologne, Germany  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Giovanni Blandino*, Regina Elena Cancer Institute, Italy  
*Filippo G. Giancotti*, Memorial Sloan-Kettering Cancer Center, USA  
*Cathie M. Pfleger*, Mount Sinai School of Medicine, USA  
*Yiting Qiao*, Cancer Science Institute, Singapore  
*Diane D. Shao*, Harvard Medical School, USA  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Kenneth Irvine*, Rutgers University, USA

**Regulation of YAP/TAZ in the Hippo Pathway by G-Protein Coupled Receptor Signaling**

*Helen McNeill*, Lunenfeld-Tanenbaum Research Institute, Canada  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Regan Giang*, Mount Sinai School of Medicine, USA  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Kenneth Irvine*, Rutgers University, USA  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Giovanni Blandino*, Regina Elena Cancer Institute, Italy  
*Filippo G. Giancotti*, Memorial Sloan-Kettering Cancer Center, USA  
*Cathie M. Pfleger*, Mount Sinai School of Medicine, USA  
*Yiting Qiao*, Cancer Science Institute, Singapore  
*Diane D. Shao*, Harvard Medical School, USA  
*Yosef Shaul*, Weizmann Institute of Science, Israel  
*Kenneth Irvine*, Rutgers University, USA

**RECEIVED ABSTRACTS**

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For the most up-to-date details, visit [www.keystonesymposia.org/13E2](http://www.keystonesymposia.org/13E2)
From Structure-Function Analysis to Details of the Mechanisms that Govern Hippo Signaling

*Fernando D. Camargo, Boston Children's Hospital, USA

Xaralabos (Bob) Varelas, Boston University School of Medicine, USA

Crosstalk between the Hippo and TGFbeta Pathways Directs Tumor-Initiating Signals

Marius Sudol, National University of Singapore, Singapore

Hippo Pathway as the WW Domain-Mediated Network of Signals

Closing Keynote Address

Joseph Avruch, Massachusetts General Hospital, USA

The Mammalian Hippo Tumor Suppressor Pathway-Negative Regulation of the YAP Oncogene

THURSDAY, MAY 23

Departure