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
**KEYSTONE SYMPOSIA**

**The Hippo Tumor Suppressor Network: From Organ Size Control to Stem Cells and Cancer (E2)**

May 19-23, 2013 • Hyatt Regency Monterey • Monterey, California, USA

**Scientific Organizers:** Marius Sudol, Helen McNeill, Georg A. Halder and Giovanni Blandino

Supported by the Directors’ Fund


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

Membrane and Upstream Signals

* Nicolas Tapon, Francis Crick Institute, UK
  
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
  
* Control of Organ Size and Tumorogenesis by the Hippo Signaling Pathway

Hippo in Flies and Mammals: Orthology and Diversity

* Helen McNeill, Lunenfeld-Tanenbaum Research Institute, Canada
  
* Yosef Shaul, Weizmann Institute of Science, Israel
  
Nicolas Tapon, Francis Crick Institute, UK
  
* Screening for New Hippo Tumor Suppressor Pathway Regulators

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
  
* The Role of Angiomotins and Merlin in Regulation of the Hippo Pathway

Wanjin Hong, Institute of Molecular and Cell Biology, Singapore
  
* Angiomotins as Substrates of Hippo Core Kinases

Yosef Shaul, Weizmann Institute of Science, Israel
  
* Why Crowded Cell Cultures Are Radioreistant: A Direct Cross-Talk between Hippo and DNA Damage Response Pathways

**Hippo Network in Organ Size Control**

* Kenneth Irvine, Rutgers University, USA
  
* Giovanni Blandino, Regina Elena Cancer Institute, Italy
  
Junichi Sadoshima, Rutgers New Jersey Medical School, USA
  
* Coordinated Regulation of Autophagy and Apoptosis by Mst1 in Cardiomyocytes

Georg A. Halder, Katholieke Universiteit Leuven, Belgium
  
* Mask Is Required for the Activity of the Hippo Pathway Effector Yki/YAP

Stefano Piccolo, University of Padua, Italy
  
* Regulation of TAZ and YAP by Wnt Signaling and Cell Shape

Diane D. Shao, Harvard Medical School, USA
  
* Short Talk: Genome-Scale Expression Screen Reveals Role for YAP1 in KRAS Oncogenic Addiction

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**WEDNESDAY, MAY 22**

**Deregulation of Hippo Pathway in Cancer**

* Georg A. Halder, Katholieke Universiteit Leuven, Belgium
  
* Duojia D.J. Pan, HHMI/Johns Hopkins University School of Medicine, USA
  
Kieran F. Harvey, Peter MacCallum Cancer Centre, Australia
  
* Control of Tissue Growth by the Hippo Pathway

Yael Aylon, Weizmann Institute of Science, Israel
  
* The Lats2-p53 Tumor Suppressor Axis

Giovanni Blandino, Regina Elena Cancer Institute, Italy
  
* Crosstalk between p53 Family and YAP in DNA Damage and Senescence

Filippo G. Giancotti, Memorial Sloan-Kettering Cancer Center, USA
  
* Molecular Underpinnings of Merlin-Mediated Tumor Suppression in Mammals

Cathie M. Pfleger, Mount Sinai School of Medicine, USA
  
* Short Talk: Dietary Alcohol Enhances Tissue Overgrowth Associated with Loss of Hippo Signaling But Not Over-Expression of Yorkie

Yiting Qiao, Cancer Science Institute, Singapore
  
* Short Talk: The Interplay between RUNX3 and TAE3 in Gastric Cancer

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* Session Chair † Invited but not yet accepted Program current as of **October 31, 2018**. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit **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