



BIOLOGY OF DIFFERENTIATION & CANCER

SignGene Winter School 2014

January 27 - 29

Technion, Israel Institute of Technology, Haifa, Israel

www.mdc-berlin.de/signgeneschool2014

SignGene

Frontiers in Cell Signaling and Gene Regulation

Program

*Location: Technion, Israel Institute of Technology, Rappaport Faculty of Medicine, RED Lecture Hall,
1 Efron St., Bat Galim, Haifa, 31096 Israel*

- 8:00 - 9:30 *Registration & Coffee*
- 9:30 - 9:40 **Amir Orian & Achim Leutz**, Organizers & Chairs of the Open Day
Eliezer Shalev, Dean of the Rappaport Faculty of Medicine
Welcome Address and Technion Greeting
- 9:40 - 10:20 **Philippe Soriano**, Mount Sinai School of Medicine, New York, USA
„Defining growth factor signaling specificity in craniofacial development“
- 10:20 - 11:00 **Yosef Yarden**, Weizmann Institute of Science, Rehovot, Israel
„It takes two to tango: HER2 and EGFR2 as cancer drivers and targets for therapy“
- 11:00 - 11:20 *Coffee break*
- 11:20 - 12:00 **Robert Eisenman**, Fred Hutchinson Cancer Research Center, Seattle, USA
„Coordinate transcriptional regulation of cancer metabolism by the MYC network“
- 12:00 - 12:40 **Moshe Oren**, Weizmann Institute of Science, Rehovot, Israel
„RNF20 and H2Bub: Linking chromatin modifications with cancer“
- 12:40 - 14:40 *Light lunch & Poster viewing*
- 14:40 - 15:20 **Eduardo Moreno**, University of Bern, Switzerland
„The secret society of animal cells“
- 15:20 - 16:00 **Yardena Samuels**, Weizmann Institute of Science, Rehovot, Israel
„Mutational and functional analysis of melanoma - filling in the gap“
- 16:00 - 16:40 **Yuval Shaked**, Technion, Israel Institute of Technology, Haifa, Israel
„The contribution of the host in response to therapy on tumor regrowth angiogenesis and metastasis“
- 16:40 - 17:10 *Wine & cheese break and vote for best poster*
- 17:10 - 17:50 Special Lecture: **Daniel Chamovitz**, Tel Aviv University, Israel
„What a plant knows - A field guide to the senses“
- 17:50 - 18:00 Best Poster award and Open Day closing: **Amir Orian & Achim Leutz**

Program

Location: Crowne Plaza Hotel, 111 Yefe Nof St., Haifa, 34454 Israel

8:30 - 10:40 Session I: Signaling pathways in differentiation and cancer

Chair: Upasana Das Adhikari

8:30 - 9:20 **Yinon Ben-Neriah**, Hebrew University of Jerusalem

Workshop: „Translational research challenges in inflammation-associated cancer“

9:20 - 10:00 **Achim Leutz**, Max Delbrück Center for Molecular Medicine, Berlin

„Post-transcriptional indexing of epigenetic C/EBP functions“

10:00 - 10:40 **Walter Birchmeier**, Max Delbrück Center for Molecular Medicine, Berlin

„Developmental signaling systems control different functions in cancer stem cells“

10:40 - 11:10 *Coffee break*

11:10 - 12:40 Session II: Cellular stress response and cancer genetics

Chair: Dámaris Anell Rendon

11:10 - 12:00 **Batsheva Kerem**, Hebrew University of Jerusalem

Workshop: „The molecular basis of early stages of cancer development“

12:00 - 12:40 **Clemens Schmitt**, Charité-Universitätsmedizin Berlin

„The plasticity of cancer stem cell senescence“

12:40 - 14:00 *Lunch break*

14:00 *Walk to Bahá'í Gardens*

14:30 - 16:30 *Guided tour through the Bahá'í Gardens (UNESCO World Heritage)*

17:00 - 19:30 Evening Session, Chair: Sylvia Zérath Gurevich

17:00 - 17:45 **Yardena Samuels**, Weizmann Institute of Science, Rehovot

Career pathways seminar

18:00 - 18:45 **Benjamin Podbilewicz**, Technion, Israel Institute of Technology, Haifa

Special lecture: „The hidden link between cell fusion and cancer“

18:45 - 19:30 **Nahum Sonenberg**, McGill University, Montréal, Canada

Special lecture: „Translational control of cancer via the mTOR and MAPK pathways“

Location: Technion Main Campus, Coler California Visitors Center

8:30 - 9:50 Session III: Mouse models in differentiation and cancer

Chair: Naama Flint Brodsky

8:30 - 9:10 **Ze'ev Ronai**, Sanford-Burnham Medical Research Institute, La Jolla CA, USA
„The ubiquitin ligases Siah 1/2 in hypoxia and ER stress - implications for prostate cancer“

9:10 - 9:50 **Shai Izraeli**, Tel Aviv University
„Leukemia - a molecular developmental perspective“

9:50 - 10:20 *Coffee break*

10:20 - 11:50 Session IV: Cellular microenvironment and cancer metastasis

Chair: Juliane Brümmer

10:20 - 11:10 **Gera Neufeld**, Technion, Israel Institute of Technology, Haifa
Workshop: „The role of lysyl oxidase like-2 (LOXL2) in tumor angiogenesis and tumor progression“

11:10 - 11:50 **Israel Vodavsky**, Technion, Israel Institute of Technology, Haifa
„Heparanase: from basic research to therapeutic applications“

11:50 - 13:50 *Lunch break*

13:50 - 16:60 Session V: Epigenetic gene regulation and nuclear organization

Chair: Shari Orlanski

13:50 - 14:40 **Yehudit Bergman**, Hebrew University of Jerusalem
Workshop: „Epigenetic regulation of cell fate decisions“

14:40 - 15:20 **Ofir Hakim**, Bar-Ilan University, Ramat Gan
„Mechanisms of genome regulation in 3D“

15:20 - 16:00 **Tommy Kaplan**, Hebrew University of Jerusalem
„Establishment of chromatin states and transcription during the *Drosophila* maternal-to-zygotic transition“

16:00 - 16:30 *Coffee break*

16:30 - 18:00 Session VI: Gene networks and transcriptional regulation in differentiation and cancer, Chair: Undine Hill

16:30 - 17:10 **Tzachi Pilpel**, Weizmann Institute of Science, Rehovot
„A dual program for protein translation in mammals“

17:10 - 18:00 **Amir Orian**, Technion, Israel Institute of Technology, Haifa
Workshop: „Maintaining the differentiated identity and its relevance to tissue homeostasis, stem cell biology, and cancer“

18:00 - 18:10 Closing remarks: **Amir Orian & Achim Leutz**

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