January 27 - Open Day // 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
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 Podbielwicz, 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 Vlodavsky, 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**
SIGNGENE WINTER SCHOOL 2014
BIOLOGY OF DIFFERENTIATION & CANCER

THIS EVENT IS KINDLY SUPPORTED BY
Helmholtz Association, Moshe Yanai Technion Fund, Mechora Foundation,
Merck-Serono Ltd., Bar-Naor Ltd. Eldan/Neofram Ltd., Daniel Biotech Ltd., Levant Ltd.

Email: signgene@mdc-berlin.de
Web: www.mdc-berlin.de/signgene