

The 3rd Annual Conference of the I-CORE Gene Regulation in Complex Human Disease included four I-CORES and the CRG-Barcelona

The 3rd Annual Conference of the I-CORE Gene Regulation in Complex Human Disease took place on Monday, January 19, 2015 at the Hadassah Hebrew University Medical Center in Jerusalem. Plenary speakers arrived from the Center for Genomic Regulation (CRG). Prof. Juan Valcarcel spoke about networks of alternative splicing regulation in cancer and Prof. Roderic Guigo described transcriptome variation across individuals and tissues, in addition to providing an overview of the CRG in Barcelona. The day was further inspiring due to the meeting of four I-CORES for the first time. Each I-CORE presented their major goals and achievements, followed by two presentations from their members. Eithan Galun described the goals of the host I-CORE in deciphering the complex nature of disease, followed by mechanisms underlying relationships between complex traits by young PI Irit Gat-Viks and a description of the broad spectrum of cancer-driving inflammatory reactions by Yinon Ben-Neriah. The I-CORE Chromatin and RNA in Gene Regulation was introduced by Nir Friedman, followed by a presentation by Amos Tanay on mapping and modelling cellular memory with single cell genomics and by young PI Ayelet Lamm on RNAi and RNA editing. I-CORE Physical Approaches to Dynamic Processes in Living Systems was introduced by Yuval Garini, with a lecture on single-cell genomics of renal tissues and tumors by Tomer Kalisky and young PI Yuval Ebenstein on epigenetic mapping of individual chromosomes. The I-CORE Structural Biology of the Cell featured its goals, as presented by Prof. Gideon Schreiber, following by Deborah Fass with a lecture on high-resolution imaging of the extracellular matrix and Ari Admon's description of protein dynamics and personalized vaccines for cancer. A dynamic roundtable, moderated by Karen Avraham on "RNA & DNA Seq – how personal can we get?" took place with I-CORE and CRG members taking part, along with interaction by the audience. The many questions and discussions will surely lead to increased collaboration and hopefully will provide a framework for grant submissions for future research between the scientific groups.

