You are cordially invited to a talk of the Edmond J. Safra Bioinformatics Program Distinguished Speaker Series.

The speaker is **Dr.Philipp Bucher**, Senior scientist and bioinformatics group leader at the Swiss Institute for Experimental Cancer Research (ISREC)

Title:  "In vivo transcription factor - target recognition: What can we learn from

ChIP-Seq data ? "

Time: Tuesday January 25th, at 11:15 (refreshments from 11:00)

Place: Schreiber building, room 008.

Abstract:

The recently introduced ChIP-Seq technology has already revolutionized research on transcriptional regulation.Thanks to this technology we are now able to see where specific

transcription factors bind to DNA in vivo in a particular cell type. Moreover, ChIP-seq experiments targeted at histone modifications provide a detailed picture of the local

chromatin structure. My talk will center on the computational problem of predicting in vivo TF binding sites from various sources of evidence. How well can in vivo binding sites be

predicted with in vitro binding specificity models? Can such predictions be improved by taking into account cross-species conservation and local chromatin structure ? I will present

results from a number of case studies that provide preliminary answers to such questions.