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**Poster titles – Retreat 2010**

**1**. **The Role of Occludin in Modulating Tight-Junctions Function**

Adva Yeheskel, Yakey Yaffe, Koret Hirschberg and Metsada Pasmanik-Chor

**2**. **Different sets of QTLs influence fitness variation in yeast**

Gal-Hagit Romano, Ynat Gurevich, Ofer Lavi, Igor Ulitsky, Ron Shamir and Martin Kupiec

**3**. **PRINCE: Associating Genes and Protein Complexes with Disease via Network Propagation**

Oron Vanunu, Oded Magger, Eytan Ruppin, Tomer Shlomi, Roded Sharan

**4**. **Monte-Carlo Simulations of Peptide-Membrane Interactions: Web-Server**

Yana Gofman, Turkan Haliloglu, Nir Ben-Tal

**5**. **Functional dynamics of NhaA predict motion implicated in alternating access and pH-induced activation**

Maya Schushan, Etana Padan, Turkan Haliloglu and Nir Ben-Tal

**6**. **Signature Residues in the 2009 Influenza A (H1N1) Virus Appear to Influence Antigenicity**

Daphna Meroz, Tomer Hertz and Nir Ben-Tal

**7**. **Global Shifts in Immunological-Related MicroRNA Expression Induced by Activation of Mammalian Brain Astrocytes**

Eyal Mor, Yuval Cabilly, Adam Weinstock, Harel Zalts, Shira Modai, Liat

Edry, Yona Goldshmit, Orna Elroy-Stein and Noam Shomron

**8**. **Expander: From Expression Microarrays to Networks and Functions**

Adi Maron-Katz, Ran Elkon, Seagull Shavit, Igor Ulitsky, Chaim Linhart, Amos Tanay, Roded Sharan, Eyal David, Dorit Sagir, Yosef Shiloh, Ron Shamir

**9**. **An Algorithmic Framework for Predicting Side Effect of Drugs**

Nir Atias and Roded Sharan

**10**. **Optimization of high-throughput microRNA sequencing**

Shahar Alon, Francois Vigneault, George Church and Eli Eisenberg

**11**. **Think Positive - Selection Forces Acting on** **Listeria monocytogenes** **MFS Proteins**

Mor Lurie-Weinberger, Adi Doron-Faigenboim, Millie Kaplan Zeevi, Uri Gophna and Anat A. Herskovits

**12**. **Combining drug and gene similarity metrics for target elucidation**

Liat Perlman, Assaf Gottlieb, Nir Atias, Eytan Ruppin and Roded Sharan

**13**. **Classifying Disease Expression Profiles using Networks**

Ofer Lavi, Gideon Dror and Ron Shamir

**14**. **Finding Minimal Perturbations in Gene Regulatory Networks**

Guy Karlebach and Ron Shamir

**15**. **Detecting Highways of Horizontal Gene Transfer**

Mukul S. Bansal, Peter J. Gogarten, Ron Shamir

# 16. Understanding the Functionality of Gene Sequence Polymorphisms in the Context of Transcription Regulation in Yeast

Irit Gat-Viks, Renana Meller, Martin Kupiec, Ron Shamir

**17**. **Pharmaco-miRNAs: A global analysis of microRNA effects on drug metabolism and efficacy**

Jakob L. Rukov, Shira Modai, Noam Shomron

**18**. **Deriving Enzymatic Signatures from Short Read Data**

Uri Weingart, Erez Persi, Uri Gophna, and David Horn

**19**. **Evolutionary models accounting for layers of selection in protein coding genes and their impact on the inference of positive selection**

Nimrod D. Rubinstein, Adi Doron-Faigenboim, Itay Mayrose, Tal Pupko

**20**. **Accurate inference of horizontal gene transfer elucidates trends and barriers in the transferability of gene families**

Ofir Cohen, Uri Gophna and Tal Pupko

**21**. **A machine learning approach to genome-scale identification of proteins targeted to the hydrogenosome in Trichomonas vaginalis**

David Burstein, Sven Gould, Verena Zimorski, Thorsten Klösges, Katrin Henze, Wiliam Martin, Tal Pupko, Tal Dagan

**22. Genome-wide diversifying selection in SIV from chimpanzees**

Adi, Stern, Osnat Penn, M. Rolnik, E. Bacharach and T. Pupko

**23**. **Predicting Selective Drug Targets in Cancer through**

Ori Folger, Livnat Jerby, Christian Frezza, Eyal Gottlieb, Eytan Ruppin, Tomer Shlomi

**24**. **ConQuass: using evolutionary conservation for quality assessment of protein model structures**

Matan Kalman and Nir Ben-Tal

**25**. **SPIKE: A Signaling Pathways Resource for the DNA Damage and Apoptosis communities**

A. Paz, E. David,, Y. Ber, I. Zohar, D. Sagir, G. Karlebach, J. Assa, I. Ulitksy, R. Elkon, A. Kimchi, Y. Shiloh, R. Shamir

**26**. **Prediction of Anti-cancer Drug Targets that Selectively Increase ROS Production**

Adi Shabi, Eytan Ruppin

**27**. **Metabolic Networks Explain the Warburg Effect**

Tomer Shlomi, Tomer Benyamini, Eyal Gottlieb, Roded Sharan and Eytan Ruppin

28**. Mapping the MicroRNA Regulatory Role Following Chromosomal Instability in Cancer Cells**

Ori Arditi, Maya Genel and David Zeevi