

**Wednesday December 13, 2017**

- 8:30-9:00 WELCOME RECEPTION**  
**9:00-9:05** *Welcome: Roy Kishony*  
**9:05-9:15** *Opening greetings: Prof. Peretz Lavie*  
 President of the Technion  
**9:15-10:15** *Keynote: Jonathan Adiri*  
 The Era of Permanent Revolution
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- SESSION 1 MEDICAL INFORMATICS - FINDING TREASURE**  
**10:30-10:50** **Amos Tanay**  
 Probabilistic modelling of complex and sparse medical records  
**10:50-11:10** **Kira Radinsky**  
 Predicting the future in medicine using data science  
**11:10-11:30** **Nigam Shah**  
 Building a machine learning health system
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- 11:30-12:00 COFFEE BREAK**
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- SESSION 2 HIGH-RES POPULATION STUDIES**  
**12:00-12:20** **Hanna Bayer**  
 The HUMAN Project - Using big data to understand the human condition  
**12:20-12:40** **Soren Brunak**  
 Disease trajectories from population-wide data in the context of underdiagnosed disease  
**12:40-13:00** **Eran Segal**  
 Personalizing treatments using microbiome and clinical data
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- 13:00-15:00 LUNCH BREAK & POSTER PRESENTATION I**
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- SESSION 3 "RESEARCH NUGGETS"**  
**15:00-15:20** **Roy Kishony**  
 Predicting antibiotic resistance  
**15:20-15:40** **Shai Shen-Orr**  
 Moving Systems Immunology Beyond High bandwidth Measurements  
**15:40 -16:00** **Ze'ev Ronai**  
 Microbiome- Immune system interactions in melanoma development  
**16:00-16:20** **Irit Hochberg**  
 Using MDclone medical database query to explore the effect of albumin and insulin type on inpatient hypoglycemia
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- 16:30 - 17:00 CANDLE LIGHTING**
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- 17:30 - 22:00** *Speaker tour. Akko tour and Dinner*

**Thursday December 14, 2017**

- 8:30-9:00 GATHERING**  
**9:00-10:00** *Keynote: John Wilbanks*  
 Participant-centered design for ethical precision medicine
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- SESSION 4 MEDICAL INFORMATICS - FROM THE PROVIDER PERSPECTIVE**  
**10:00-10:20** **Ran Balicer**  
 Data-driven care: Innovation in Practice?  
**10:20-10:40** **Varda Shalev**  
 Personalized medicine from theory to practice  
**10:40-11:00** **Eric Kirkendall**  
 From Theory to Practice: Informatics Research in the Modern Clinical Setting
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- 11:00-11:30 COFFEE BREAK**
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- SESSION 5 SYSTEMS BIOLOGY AND GENOMICS**  
**11:30-11:50** **Uri Alon**  
 Evolutionary tradeoffs and the geometry of large scale biological datasets  
**11:50-12:10** **Joel Dudley**  
 Moving from Precision Medicine to Next Generation Healthcare  
**12:10-12:30** **Jaroslav Meller**  
 LINCS Cellular Perturbation Signatures as a Resource for Precision Medicine  
**12:30-12:50** **Allon Klein**  
 Reconstructing dynamics in health and disease: limitations and opportunities with high throughput single cell 'omics
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- 13:00-15:00 LUNCH & POSTER SESSION II**
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- SESSION 6 AUGMENTING THE HUMAN**  
**15:00-15:20** **Michal Rosen-Zvi**  
 Helping physicians with specialized advisors - from HIV to Breast Cancer  
**15:20- 15:40** **Elad Yom-Tov**  
 Can Internet search engines guide you to better health?  
**15:40-16:00** **Jonathan Laserson**  
 Zeroing in on Radiology
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- 16:00-16:15 WINNING POSTER ANNOUNCEMENT**  
**16:15-17:15** *Keynote: Isaac Kohane*  
 What does it mean to be a doctor in the era of superhuman artificial intelligence?  
**17:15-17:30** *Concluding remarks: Roy Kishony*