

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*