8:30-9:00  WELCOME RECEPTION
9:00-9:05  Welcome: Roy Kishony
9:05-9:10  Opening greetings: Prof. Peretz Lavie
           President of the Technion
9:10-9:15  Keynote: Jonathan Adiri
           The Era of Permanent Revolution

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
11:30-12:00  COFFEE BREAK

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
13:00-15:00  LUNCH BREAK & POSTER PRESENTATION I

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
16:30 - 17:00  CANDLE LIGHTING
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

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
11:00-11:30  COFFEE BREAK

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  Jaroslaw 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
13:00-15:00  LUNCH & POSTER SESSION II

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
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