

The joint fall workshop of ISM and the Israeli Society for Infectious Diseases:

## Frontiers in Infectious Diseases – From Bench to Bedside

Holiday Inn Ashkelon • December 15 - 17, 2016

### Thursday, December 15, 2016

15:00-16:00           Arrival and Registration

16:00-16:15           Welcome Remarks

#### **16:15-17:00           Plenary Lecture**

Chair: Prof. Herve Bercovier

Interactions between bacteria and phages – CRISPR and beyond

**Prof. Rotem Sorek, Weizmann Institute**

#### **17:00-19:00           Session I: Foodborne Infections and Food Safety - Sponsored by ILEX**

Chair: Prof. Ran Nir-Paz

17:00-17:30           Into the world of *Listeria monocytogenes*  
**Dr. Anat Herskovits, Tel Aviv University**

17:30-18:00           *Coffee break*

18:00-18:30           *Campylobacter* – the leading foodborne pathogen in Israel  
**Prof. Miriam Weinberger, Tel Aviv University & Assaf Harofeh Medical Center**

18:30-18:45           The appearance and outbreak of a rare *Salmonella enterica* serovar Cleveland in Israel  
**Dr. Maya Davidovich-Cohen, Central Laboratories Ministry of Health**

18:45-19:00           A differential cellular immune response to *S. aureus* carriage  
**Aylana Reiss-Mandel, Sheba Medical Center and Tel-Aviv University**

19:00 -20:00           *Dinner*

#### **20:00-21:15           Session II: Virulence and Infection**

Chair: Dr. Neta Sal-Man

- 20:00-20:30 Differences in Host Cell Invasion and Virulence Gene Expression between Typhoidal and Non-typhoidal *Salmonella*  
**Dr. Ohad Gal-Mor, Sheba Medical center & Tel Aviv University**
- 20:30-21:00 Host and pathogen simultaneous single-cell transcriptome analysis reveals interacting sub-populations during infection  
**Dr. Roi Avraham, Weizmann Institute**
- 21:00-21:15 *Galleria mellonella* as an in vivo infection model for pathogenesis, antimicrobial drug and drug-combination testing in *Mycobacterium abscessus*  
**Michal Meir, Rambam Medical Center and the Hebrew University**
- 21:15 -23:00 Posters, Discussions and Refreshments

### Friday, December 16, 2016

#### **08:30-12:00 Session III: Translational Research & One Health**

Chair: Prof. Yechezkel Kashi and Dr. Gili Regev-Yochay

- 08:30-09:00 Antibiotic resistance gene dynamics along the wastewater-soil-plant continuum  
**Dr. Eddie Cytryn, Volcani Center**
- 09:00-09:30 Surviving against all odds: How *Salmonella* survives in dry food?  
**Prof. Shlomo Sela, Volcani Center**
- 09:30 -10:00 The Price of a Neglected Zoonosis: Brucellosis in Israel as a Case Study  
**Prof. Nadav Davidovitch, Ben-Gurion University**
- 10:00-10:30 *Coffee Break*
- 10:30-11:00 Harnessing Next-Generation Sequencing to Inform Legionnaires' Disease Control  
**Prof. Jacob Moran-Gilad, Ben-Gurion University & Ministry of Health**
- 11:00-11:30 How many secretion systems does a bacterium need to manipulate its neighbors?  
**Dr. Dor Salomon, Tel Aviv University**
- 11:30-11:45 Antibiotic Resistance in Companion Animals in Israel - Where Do We Stand?  
**Dr. Anat Shnaiderman-Torban, the Hebrew University of Jerusalem**

11:45-12:00            Syndromic approach in the Microbiology Laboratory - the BioFire Film Array system  
**Dr. Yossi Paitan, Meir Medical Center**

12:00-13:00            *Light Lunch and Posters*

**13:00-15:30            Session IV: Evolution, Mechanisms & Implications of Antimicrobial Resistance**

Chair: Prof. Galia Rahav

13:00-13:30            *Klebsiella pneumoniae*: a major world-wide source and shuttle for antibiotic resistance  
**Prof. Shiri Navon-Venezia, Ariel University**

13:30-14:00            The therapeutic challenge of multidrug resistant infections  
**Prof. Mical Paul, Rambam Medical Center, Technion**

14:00-14:30            Evolution under intermittent antibiotic exposure  
**Prof. Nathalie Balaban, The Hebrew University**

14:30-15:00            Review of antifungal resistance  
**Dr. Ronen Ben Ami, Tel Aviv University and Tel Aviv Medical Center**

15:00-15:15            Novel Indole-based compounds: winning the battle against Gram negative bacterial resistance  
**Prof. Ariel Kushmaro, Ben-Gurion University**

15:15-15:30            The contribution of calcite scaffolds to antibiotic resistance of bacterial biofilms  
**Dr. Ilana Kolodkin-Gal, Weizmann Institute**

15:30-16:00            *Coffee Break*

19:00-20:00            Dinner

20:00-21:00            Leisure/ Popular Talk  
Bats - their sonar, navigation and love life  
**Dr. Yossi Yoval, Tel Aviv University**

**Saturday, December 17, 2016**

**Optional:** Guided tour to the national Park Ashkelon

<http://www.parks.org.il/ParksAndReserves/ashkelon/Pages/default.aspx>

## POSTERS LIST

- P-1 **Ronit Suissa, Weizmann Institute**  
Novel Mode of Action for Elimination of Gut Pathogens by *Lactobacillus rhamnosus GG*
- P-2 **Ana Belkin, Sheba Medical Center**  
*Streptococcus bovis* bacteremia: clinical presentation, subtypes and colonic metaplasia
- P-3 **Miri Vanunu, Hebrew University**  
*mapB*, and not *mapA*, is the essential Methionine aminopeptidase of *M. tuberculosis*, and the essentiality may be related to novel unidentified activity
- P-4 **Shalhevet Azriel and Inna Somer, Sheba Medical center**  
The role of the typhoid colonization factor (Tcf) in the virulence of non typhoidal *Salmonella* serovars
- P-5 **Dana Elhadad, Sheba Medical center and Tel-Aviv University**  
Differences in Host Cell Invasion and Salmonella Pathogenicity Island 1 Expression between *Salmonella enterica* Serovar Paratyphi A and Nontyphoidal S. Typhimurium
- P-6 **Olga Snitser, Technion**  
Pathogen Adaptation within the Human Host
- P-7 **Paul Jeffrey Freidlin, National Mycobacterium Reference Center, National Public Health Laboratory**  
CRISPR-associated *cas1* gene is deleted or potentially defective in important families of *Mycobacterium tuberculosis*
- P-8 **Yoram Gerchman, Oranim College**  
A low-cost, simple high throughput method for screening native *Helicobacter pylori* urease inhibitors using a recombinant *Escherichia coli*, its validation and demonstration of a *Pistacia atlantica* extract as effective and specific inhibitor
- P-9 **Yossi Paitan, Meir Medical Center**  
Susceptibility and characterization of Gram-negative bacilli associated with urinary tract, respiratory tract and intra-abdominal infections in Israel: The 2015 SMART Study
- P-10 **Zvi Hayouka, The Hebrew University**  
Tackling methicillin-resistant *Staphylococcus aureus*+

P-11 **Nili Turian, Tel Aviv University**  
Studying new effector protein in *L. monocytogenes*

**Organizing Committee:**

- Dr. Ohad Gal-Mor, Sheba Medical center and Tel Aviv University
- Prof. Miriam Weinberger, MD Chair, Israeli Society for Infectious Diseases Head, Infectious Diseases Unit, Assaf Harofeh Medical Center Sackler School of Medicine, Tel Aviv University
- Prof. Jacob Moran-Gilad, Ben-Gurion University of the Negev & Public Health Services, Ministry of Health

**The workshop is sponsored by:**

