1st conference of the Tel Aviv University Center for Combatting Pandemics (TCCP)

The Steinhardt Museum of Natural History
Tel Aviv University

Wednesday, March 30, 2022
Conference Agenda

Tel Aviv University, Nature Museum, Wednesday, March 30, 2022

08:30-09:00 | Reception hall | registration and coffee

09:00-09:10 | Auditorium | OPENING STATEMENTS:
Prof. Dan Peer, TAU VP
Prof. Itai Benhar, Director of the TCCP

09:10-09:50 | Auditorium | Plenary Lecture:
Prof. Galia Rahav, Sheba Medical Center
COVID-19: Past, present and future

09:50-10:10 | Reception hall | Coffee break

SESSION 1

CLINICAL ASPECTS OF COVID-19

Auditorium | Chair: Daniel Cohen, Faculty of medicine, Tel Aviv University

10:15-10:35 | Ori Elkayam, Tel Aviv Sourasky Medical Center
COVID-19 in patients with autoimmune inflammatory rheumatic Diseases: prevalence and prevention

10:35-10:55 | Shiran Shapira, Tel Aviv Sourasky Medical Center
Exosomes Displaying CD24 (EXO-CD24) in COVID-19: From Idea to Patients Cure

11:00-11:20 | Daniel Cohen, Faculty of Medicine, Tel Aviv University
Correlates of immune response and risk of reinfection with SARS-CoV-2 variants in recovered COVID-19 individuals

11:20-11:40 | Daniel Nevo, Faculty of Exact Sciences, Tel Aviv University
You can’t always get what you want: estimating vaccine causal Effects from observational data

11:40-12:00 | Khitam Muhsen, Faculty of Medicine, Tel Aviv University
COVID-19 vaccines effectiveness among residents of long-term Care Facilities
12:00-12:20  Yftach Gepner, Faculty of Medicine, Tel Aviv University  
Safety assessment to a new vaccine - moving forward to Objective Evaluation

**Session 2**

**SOCIAL ASPECTS OF COVID-19**

**Erdi Gallery** | Chair: Aeyal Gross, Faculty of Law, Tel Aviv University

10:15-10:35  Carmit Katz, Bob Shapell School of Social Work  
Faculty of Social Sciences, Tel Aviv University  
Child maltreatment during COVID-19: International examination

10:35-10:55  Isaac Sasson, Department of Sociology and Anthropology  
Faculty of Social Sciences, Tel Aviv University  
Demographic challenges and insights on COVID-19 mortality

11:00-11:20  Zehava Solomon, Faculty of Social Sciences, Tel Aviv University  
תגובות נפשיות לקורונה: תפקיון של תראומות קוגניטיביות

11:20-11:40  Aeyal Gross, Faculty of Law, Tel Aviv University  
"כמו חלום בלהה דיסטופי" - זכויות אדם ודמוקרטיה בצל משבר הקורונה בישראל והעולם

11:40-12:00  Miri Shefer Mossensohn, Faculty of Humanities, Tel Aviv University (recorded lecture)  
לברוח או לא לברוח? תגובות למגיפות במזרח התיכון המוסלמי והשפעותן ארוכות הטווח

12:00-13:00* Lunch for Auditorium audience will start at: 12:20

**Session 3**

**BIOLOGY OF SARS-COV-2**

**Auditorium** | Chair: Adi Stern, Faculty of Life Sciences, Tel Aviv University

13:00-13:20  Jonny Gershoni, Faculty of Life Sciences, Tel Aviv University  
VaxEd - the real challenge

13:20-13:40  Natalia Freund, Faculty of Medicine, Tel Aviv University  
Antibody responses to SARS-CoV-2
13:40-14:00  **Yariv Wine**, Faculty of Life Sciences, Tel Aviv University  
The longitudinal kinetics of the antibody response in COVID-19 Recovered patients

14:00-14:20  **Ron Shamir**, Faculty of Exact Sciences, Tel Aviv University  
Early prediction of deterioration in COVID19 inpatients

14:20-14:40  **Adi Stern**, Faculty of Life Sciences, Tel Aviv University  
The evolutionary fate of SARS-Coroanvirus-2 variants

**POST DOC FLASH SESSION**

14:40-14:45  **Keren Constantini**, Faculty of Life Sciences, Tel Aviv University, post doc.  
Short-term effects of BNT162b2 mRNA COVID-19 vaccination on Continuously measured physiological markers

14:45-14:50  **Yair Daon**, Faculty of Medicine, Tel Aviv University, post doc  
Pooling strategies for PCR testing of SARS-CoV-2

14:50-14:55  **Matan Ben Zion**, Exact Sciences, Tel Aviv University, post doc  
Towards Virion Sequestering Using Polymeric Multivalent Carriers

**SESSION 4**

**MODELING COVID-19 SPREAD**

**Erdi Gallery** | Chair:  **Dan Yamin**, Faculty of Engineering, Tel Aviv University

13:00-13:20  **Dan Yamin**, Department of Industrial Engineering, Faculty of Engineering, Center for Combatting Pandemics, Tel Aviv University  
Terminating pandemics with wearable devices

13:20-13:40  **Eran Toch**, Faculty of Engineering, Tel Aviv University  
How Mass surveillance Crowds Out Installations of COVID-19 Contact Tracing Applications

13:40-14:00  **Itzhak Benenson**, Faculty of Engineering, Tel Aviv University  
Spatially explicit modeling of the SARS-CoV-2 transmission between Population groups in Jerusalem

14:00-14:20  **Irad Ben-Gal**, Faculty of Engineering, Tel Aviv University  
Using Human Mobility Patterns and Socio-demographic data to Analyze local spread of COVID-19
14:20-14:40  **Eran Yashiv**, The Eitan Berglas School of Economics, Tel Aviv University  
*When to Lock, Not Whom: Managing Current and Future Epidemics Using Time-Based Restriction*

14:40-15:00  **Saharon Rosset**, Faculty of Exact Sciences, Tel Aviv University  
*Modeling SARS-CoV-2 mutational processes: predicting the next Variant*

15:00-15:20  **Reception hall** | Coffee break

**SESSION 5**  
**VIRUS DETECTION AND DISINFECTION**  
**Auditorium** | Chair: **Hadas Mamane**, Faculty of Engineering, Tel Aviv University

15:20-15:40  **Hadas Mamane**, Faculty of Engineering, Tel Aviv University  
*UV disinfection of Coronavirus: wavelength effect*

15:40-16:00  **Gili Bisker**, Faculty of Engineering, Tel Aviv University  
*Optical Nano sensors for Discriminative SARS-CoV-2 Viral Mutations For Rapid Diagnosis*

16:00-16:20  **Raya Sorkin**, Faculty of Exact Sciences, Tel Aviv University  
*Unveiling Coronavirus fusion, one vesicle at a time*

16:20-16:40  **Dor Salomon**, Faculty of Medicine, Tel Aviv University  
*A synthetically engineered platform for antibacterial bio-treatments*

16:40-17:00  **Alex Goldberg**, Faculty of Exact Sciences, Tel Aviv University  
*News from the sea: anti-COVID-19 compounds from seaweeds*

17:00-17:20  **Benny Da’adoosh**, Computer-Assisted Drug Design Unit, BLAVATNIK CENTER for Drug Discovery, Tel Aviv University  
*Inhibition of TMPRSS2 binding to ACE2.*

**SESSION 6**  
**LEGAL AND PSYCHOLOGICAL PERSPECTIVES**  
**Erdi Gallery** | Chair: **Bruria Adini**, Faculty of Medicine, Tel Aviv University

15:20-15:40  **Moran Bodas**, Faculty of Medicine, Tel Aviv University  
*The Disaster Psychology of the COVID-19 Outbreak*
15:40-16:00  **Daphna Hacker**, Faculty of Law, Tel Aviv University
משבר הקורונה כ fırsat ל.Tests המודעות לשינויים החשובים והמשפחתיים

16:00-16:20  **Yael Elster**, Economics, University of Haifa, Former post-doc at TAU School of Management,
Agreements Must Be Kept? Residential Leases during COVID-19

16:20-16:40  **Bruria Adini**, Emergency & Disaster Management department, Faculty of Medicine, Tel Aviv University
Lessons learnt from the COVID-19 pandemic concerning Resilience: The Power of Us

16:40-17:00  **Shoshana Shiloh**, Faculty of Social Sciences, Tel Aviv University
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**SESSION 7**

**VIRUS BIOLOGY AND BIOINFORMATICS**

*Auditorium* | Chair: **Noam Shomron**, Faculty of Medicine, Tel Aviv University

17:40-18:00  **Marcelo Ehrlich**, Shmunis School of Biomedicine and Cancer Research, Faculty of Life Sciences, Tel Aviv University
Harnessing cell stress responses for antiviral therapy

18:00-18:20  **Noam Shomron**, Faculty of Medicine, Tel Aviv University
Genomics aiding Pandemic research

18:20-18:40  **Ben Maoz**, Faculty of Engineering, Tel Aviv University
Effect of SARS-CoV-2 proteins on vascular permeability

18:40-19:00  **Tal Pupko**, Faculty of Life Sciences, Tel Aviv University
Identifying type III effectors in pathogenic bacteria using machine-Learning
SESSION 8
SOCIAL OF SOCIETAL EFFECTS OF COVID-19

Erdi Gallery | Chair: Miri Yemini, Faculty of Humanities, Tel Aviv University

17:40-18:00 Miri Yemini, Faculty of Humanities, Tel Aviv University
הוראה ולמידה מרחוק בזמנים של ריחוק חברתי: חקר אורבני-סוציולוגי

18:00-18:20 Arnon Hershkovitz, Faculty of Humanities, Tel Aviv University
הופעת של שיא הרעש — לקחים מהוראה ולמידה מרחוק בימי חירום

18:20-18:40 Amir Teicher, Faculty of Humanities, Tel Aviv University
מופעי על (Super-Spreaders): הזנים והמוסדות

18:40-19:00 Yoav Ram, Faculty of Life Sciences, Tel Aviv University
Inferring the effective start dates of non-pharmaceutical interventions During COVID-19 outbreaks.

CLOSING REMARKS
Auditorium