



The Center for Combating Pandemics
Tel Aviv University

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



**Conference
Agenda**

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: תפקידן של טראומות קודמות

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 והשפעותיהן 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-Coroonvirus-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 כהזדמנות לבחינה מחודשת של גבולות המשפחה המשפטיים
- 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
התמודדות עם מגפת הקורונה: פרספקטיבה פסיכולוגית
- 17:00-17:20 **Udi Sommer**, Faculty of Social Sciences, Tel Aviv University
פוליטיקה וקורונה: היבטים התנהגותיים של הפוליטיקה של המגיפה
- 17:20-17:40 **Reception hall** | Coffee break

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 בעתות של ריחוק חברתי. חקר אורבני-סוציולוגי
- 18:00-18:20 **Arnon HersHKovitz**, Faculty of Humanities, Tel Aviv University
המופע של שיא הרגש — לקחים מהוראה ולמידה מרחוק בימי חירום
- 18:20-18:40 **Amir Teicher**, Faculty of Humanities, Tel Aviv University
מפיצי על (Super-Spreaders): היסטוריה מושגית, חברתית ופוליטית
- 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