

|  |  |
|--|--|
| 1 <sup>st</sup> conference of the Tel Aviv University Center for Combatting Pandemics (TCCP)<br>Tel Aviv University - Nature Museum, Wednesday, March 30, 2022 |  |
| 08:30-09:00  | Reception hall, registration and coffee  |
| 09:00-09:10  | Opening statements: TAU President, TAU VP, Itai Benhar – Director of the TCCP  |
| 09:10-09:50  | Auditorium, Plenary Lecture- Prof. Galia Rahav, Sheba Medical Center<br>Covid-19: past, present and future   |
| 09:50-10:10  | Reception hall, Coffee break   |
| Session 1<br>Clinical aspects of COVID-19  | <b>Auditorium</b> , Chair: Daniel Cohen, Faculty of medicine, Tel Aviv University  |
| 10:15-10:35  | Ori Elkayam, Tel Aviv Sourasky Medical Center<br>COVID19 in patients with autoimmune inflammatory rheumatic diseases: prevalence and prevention                            |
| 10:35-10:55  | Shiran Shapira, Tel Aviv Sourasky Medical Center<br>Covend24- Promise in the Corona Age- the Road From an Idea to a Groundbreaking Reality                                 |
| 11:00-11:20  | Daniel Cohen, Faculty of Medicine, Tel Aviv University<br>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<br>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<br>COVID-19 vaccines effectiveness among residents of long-term care facilities                                    |
| 12:00-12:20  | Yftach Gepner, Faculty of Medicine, Tel Aviv University<br>Safety assessment to a new vaccine - moving forward to objective evaluation                                     |
| Session 2<br>Social aspects of COVID-19  | <b>Media Lab</b> , Chair: Aeyal Gross, Faculty of Law, Tel Aviv University   |
| 10:15-10:35  | Carmit Katz, Faculty of Social Sciences, Tel Aviv University<br>Child maltreatment during COVID-19: International examination  |
| 11:00-11:20  | Itzik Sasson, Faculty of Social Sciences, Tel Aviv University<br>Demographic challenges and insights on COVID-19 mortality   |
| 11:20-11:40  | Zehava Solomon, Faculty of Social Sciences, Tel Aviv University<br>תגובות נפשיות לקורונה: תפקידן של טראומות קודמות   |
| 11:40-12:00  | Aeyal Gross, Faculty of Law, Tel Aviv University<br>"כמו חלום בלהה דיסטופי" - זכויות אדם ודמוקרטיה בצל משבר הקורונה בישראל<br>והעולם                                       |
| 12:00-13:00  | Lunch  |
| Session 3<br>Biology of SARS-CoV-2   | <b>Auditorium</b> , Chair: Adi Stern, Faculty of Life Sciences, Tel Aviv University  |

|  |  |
|--|--|
| 13:00-13:20                                      | Jonny Gershoni, Faculty of Life Sciences, Tel Aviv University<br>VaxEd - the real challenge  |
| 13:20-13:40                                      | Natalia Freund, Faculty of Medicine, Tel Aviv University<br>Antibody responses to SARS-CoV-2   |
| 13:40-14:00                                      | Yariv Wine, Faculty of Life Sciences, Tel Aviv University<br>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<br>Early prediction of deterioration in covid-19 inpatients   |
| 14:20-14:40                                      | Adi Stern, Faculty of Life Sciences, Tel Aviv University<br>The evolutionary fate of SARS-Coroanvirus-2 variants   |
|  | <b>Post doc flash session</b>  |
| 14:40-14:45                                      | Keren Constantini, Faculty of Life Sciences, Tel Aviv University, post doc,<br>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,<br>Pooling strategies for PCR testing of SARS-CoV-2   |
| 14:50-14:55                                      | Matan Ben Zion, Exact Sciences, Tel Aviv University, post doc,<br>Towards Virion Sequestering Using Polymeric Multivalent Carriers   |
| Session 4<br>Modeling<br>COVID-19<br>spread      | <b>Media Lab</b> , Chair: Dan Yamin, Faculty of Engineering, Tel Aviv University   |
| 13:00-13:20                                      | Dan Yamin, Faculty of Engineering, Tel Aviv University<br>A multi-layer model for the early detection of COVID-19  |
| 13:20-13:40                                      | Eran Toch, Faculty of Engineering, Tel Aviv University<br>How Mass surveillance Crowds Out Installations of COVID-19 Contact Tracing Applications                                      |
| 13:40-14:00                                      | Itzhak Benenson, Faculty of Engineering, Tel Aviv University<br>Spatially-explicit modeling of the SARS-CoV-2 transmission between population groups in Jerusalem                      |
| 14:00-14:20                                      | Irada Ben-Gal, Faculty of Engineering, Tel Aviv University<br>Using Human Mobility Patterns and Socio-demographic data to analyze local spread of Covid19                              |
| 14:20-14:40                                      | Eran Yashiv, Faculty of Social Sciences, Tel Aviv University<br>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<br>Modeling SARS-CoV-2 mutational processes: predicting the next variant  |
| 15:00-15:20                                      | Reception hall, Coffee break   |
| Session 5<br>Virus detection<br>and disinfection | <b>Auditorium</b> , Chair: Hadas Mamman Steindel, Faculty of Engineering, Tel Aviv University  |
| 15:20-15:40                                      | Hadas Mamman Steindel, Faculty of Engineering, Tel Aviv University<br>UV disinfection of corona virus: wavelength effect   |

|   |  |
|---|--|
| 15:40-16:00   | Gili Bisker Faculty of Engineering, Tel Aviv University<br>"Optical Nanosensors for Discriminative SARS-CoV-2 Viral Mutations for Rapid Diagnosis"         |
| 16:00-16:20   | Raya Sorkin, Faculty of Exact Sciences, Tel Aviv University<br>Unveiling coronavirus fusion, one vesicle at a time   |
| 16:20-16:40   | Dor Salomon, Faculty of Medicine, Tel Aviv University<br>A synthetically engineered platform for antibacterial bio-treatments                              |
| 16:40-17:00   | Alex Goldberg, Faculty of Exact Sciences, Tel Aviv University<br>News from the sea: anti-covid19 compounds from seaweeds                                   |
| 17:00-17:20   | Benny Da'Adoosh Computer-Assisted Drug Design Unit<br>BLAVATNIK CENTER for Drug Discovery, Tel Aviv University<br>Inhibition of TMPRSS2 binding to ACE2.   |
| Session 6<br>Legal and<br>Psychological<br>Perspectives | <b>Media Lab</b> , Chair: Bruria Adini, Faculty of Medicine, Tel Aviv University   |
| 15:20-15:40   | Moran Bodes, Faculty of Medicine, Tel Aviv University<br>The Disaster Psychology of the COVID-19 Outbreak  |
| 15:40-16:00   | Daphna Hacker, Faculty of Law, Tel Aviv University<br>משבר הקורונה כהזדמנות לבחינה מחודשת של גבולות המשפחה המשפטיים  |
| 16:00-16:20   | Yael Elster, Economics, University of Haifa<br>Former post-doc at TAU School of Management,<br>Agreements Must Be Kept? Residential Leases during COVID-19 |
| 16:20-16:40   | Bruria Adini, Faculty of Medicine, Tel Aviv University<br>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<br>התמודדות עם מגפת הקורונה: פרספקטיבה פסיכולוגית   |
| 17:00-17:20   | Udi Sommer, Faculty of Social Sciences, Tel Aviv University<br>פוליטיקה וקורונה: היבטים התנהגותיים של הפוליטיקה של המגיפה                                  |
| 17:20-17:40   | Reception hall, Coffee break   |
| Session 7<br>Virus Biology<br>and<br>Bioinformatics     | <b>Auditorium</b> , Chair: Noam Shomron, Faculty of Medicine, Tel Aviv University  |
| 17:40-18:00   | Marcelo Ehrlich Faculty of Life Sciences, Tel Aviv University<br>Harnessing cell stress responses for antiviral therapy                                    |
| 18:00-18:20   | Noam Shomron, Faculty of Social Sciences, Tel Aviv University<br>Genomics aiding pandemic research   |
| 18:20-18:40   | Ben Maoz, Faculty of Engineering, Tel Aviv University<br>Effect of SARS-CoV-2 proteins on vascular permeability  |
| 18:40-19:00   | Tal Pupko, Faculty of Life Sciences, Tel Aviv University<br>Identifying type III effectors in pathogenic bacteria using machine-learning                   |
| 19:00-19:20   | Yoav Ram, Faculty of Life Sciences, Tel Aviv University<br>Modeling and inferring the effect of behavior and interventions on COVID-19 dynamics            |

|   |  |
|---|--|
| Session 8<br>Social of<br>societal effects<br>of COVID-19 | <b>Media Lab</b> , Chair: Miri Yemini, Faculty of Humanities, Tel Aviv University  |
| 17:40-18:00   | Miri Yemini, Faculty of Humanities, Tel Aviv University<br>שימוש במרחבים אורבניים וביתיים בעת למידה והוראה מרחוק                                     |
| 18:00-18:20   | Arnon HersHKovitz, Faculty of Humanities, Tel Aviv University<br>המופע של שיא הרגש- לקחים מהוראה ולמידה מרחוק בימי חירום                             |
| 18:20-18:40   | Amir Teicher, Faculty of Humanities, Tel Aviv University<br>מפיצי על (super-spreaders): היסטוריה מושגית, חברתית ופוליטית                             |
| 18:40-19:00   | Miri Shefer Mossensohn, Faculty of Humanities, Tel Aviv University<br>לברוח או לא לברוח? תגובות למגיפות במזרח התיכון המוסלמי והשפעותיהן ארוכות הטווח |
|   |  |
| Closing<br>remarks  | <b>Auditorium</b>  |
|   |  |