



TECHNION Israel Institute of Technology Technology Faculty of Medicine



Immunity, Cancer and the Microenvironment: Resolving a 3-way Standoff
The 2nd Immuno-oncological Meeting of the Israel Immunological Society (IIS) with the Rappaport Technion Integrated Cancer Center

February 22-24, 2022 | Haifa, Israel

## Scientific program

Tuesday, 22.2.2022 - Dylan Building, The Port Campus, University of Haifa

<u>Time</u>	Stary, 221212022 Sylam Sahaning, The Fort Sampas, Shiverency of Flama		
12:30 - 13:30	Gathering and registration (Lobby area)		
	Hall: Lilach Hall		
13:30 - 15:30	Title: Computational methods in immune and cancer research		
Satellite Session 1	Chair: Prof. Eitan Rubin (BGU) & Dr. Merav Cohen (TAU)		
13:30 - 13:50	Cracking The Genomic Language of Somatic Hypermutation Targeting		
	Dr. Kobi Maman (Tzfat – BIU)		
13:50 - 14:10	Dissecting the immune-controlled signaling networks of the tumor microenvironment		
	Dr. Merav Cohen (TAU)		
14:10 - 14:30	Computational fingerprinting of immune-mediated pressure on SARS-CoV-2 viral		
	evolution reveals preliminary evidence for immune evasion		
14:30 - 14:50	Prof. Tomer Hertz (BGU) What makes a variant? Drivers of evolution during chronic SARS-CoV-2 infections		
11.00	Prof. Adi Stern (TAU)		
14:50 - 15:10	Deconvolving the tumor microenvironment		
	Dr. Dvir Aran (Tech)		
15:10 - 15:30	A single molecule view of signaling-complexes in health and disease		
45.00 45.50	Prof. Eilon Sherman (HUJI)		
15:30 - 15:50	Coffee break and poster presentations (Lobby area)		
	Keynote 1: Dana Pe'er (NYC, NY)		
15:50 - 16:50			
16:55 - 19:00 <b>Satellite Session 2</b>	Title: Nir Friedman memorial session - lymphocyte receptor repertoires and		
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## Wednesday, 23.2.2022 - Rappaport Lecture Halls, The Faculty of Medicine, The Technion

<u>Time</u>	Early Birds 1		
07:30 - 08:30	Registration (Lobby area)		
	Hall: Ruth Hall	Hall: Green Hall	
08:30 - 09:30	Short talks from submitted abstracts Chair: <b>Prof. Didi Meiri (Tech)</b>	Short talks from submitted abstracts Chair. <b>Prof. Michal (Miki) Rahat (Tech)</b>	
08:30 - 08:37	Targeting innate immune cells to improve their function under immunosuppressive conditions     Dr. Oren Parnas (HUJI)	5 - Short fatty acid chain sulfatides are endogenous ligands for TLR4/MD-2 Dr. Tsaffrir Zor (TAU)	
08:37 - 08:45	2 - Conformational Flexibility in Neutralization of SARS-CoV-2 by Naturally Elicited Anti-SARS-CoV-2 Antibodies <b>Dr. Natalia Freund (TAU)</b>		
08:45 - 09:00	3 - Interleukin 23 produced by hepatic monocyte-derived macrophages is essential for the development of murine Primary Biliary Cholangitis  Dr. Debby Reuveni (TAU)	6 - RNA editing in pancreatic beta-cells prevents aberrant innate immune activation and diabetes  Ehud Knebel (HUJI)	
09:00 - 09:15	4 - Harnessing islet heterogeneity to trace the origins of type 1 diabetes Dr. Nadav Sharon (Tech)	7 - Differences in genomic response to hyperinflammation in human gut xenograft and mouse gut have implications for the study of Sars-CoV-2  Prof. Nahum Shpigel (HUJI)	
09:15 - 09:30	5 - Nanoscale spatio-mechanical regulation of the immune signaling in cytotoxic lymphocytes  Dr. Mark Schvartzman (BGU)	8 - On-chip gut permeability assay reveals barrier-modulating microbiome following chemotherapy Hadar Bootz (BIU)	
09:30	Hall: Ruth Ha		
	Greetings: Prof. Amiram Ariel Prof. Yuval Shaked		
9:45 - 10:45	Keynote 2: Tumor response and resistance Michelle De Palma (Lausanne, Switzerlan	id)	
10:45 - 11:15	Coffee break	(Exhibition area)	
	Hall: Ruth Hall	Hall: Green Hall	
11:15 - 13:20 <u>Session 1</u>	A: Visualizing the immune response Chairs: Prof. Mira Barda-Saad (BIU) Prof. Nahum Shpigel (HUJI)	B: Inflammation and Innate Immunity Chairs: Prof. Gabriel Nussbaum (HUJI) Prof. Yona Keisari (TAU)	
11:15 - 11:40	Remembering immunity: brain regulation of immune processes  Prof. Asya Rolls (Tech)	Cognate Microglia - T regulatory cell interactions control remission from EAE pathology  Prof. Steffen Jung (WIS)	
11:40 - 12:05	Breast cancer ICAM-1 suppresses metastatic spread to lungs via intravascular killing by circulating neutrophils  Prof. Ronen Alon (WIS)	Anti-tumorigenic activities of eosinophils in mucosal tumors  Prof. Ariel Munitz (TAU)	
12:05 - 12:30	The use of biomedical tools in new frontiers; Immunity and stem cell transplantation for corals  Dr. Benyamin Rosental (BGU)	Regulation of innate immune neutrophils by circadian rhythms during acute inflammation <b>Prof. Tsvee Lapidot (WIS)</b>	

12:30 - 12:55	How do boots vial infactions diswent	Denve gramming manyanhagan far an anti	
12.30 - 12.33	How do bacterial infections disrupt	Reprogramming macrophages for an anti	
	antibody-mediated immunity?	tumor effect	
	Prof. Ziv Shulman (WIS)	Prof. Dror Mevorach (HUJI)	
12:55 - 13:20	Monitoring immune cells in the tumors is	COMMD10 controls the life span and lifestyle	
	require for optimizing immunotherapy	of monocytes and macrophages	
	efficacy	Dr. Chen Varol (TAU)	
	Prof. Moshe Elkabets (BGU)	, ,	
13:20 - 14:30		entations (Exhibition area)	
	Hall: Ruth Hall	Hall: Green Hall	
14:30 - 16:35	A: Viral infections: COVID-19 and	B: Lymphocyte Activation & Exhaustion	
Session 2	beyond	Chairs: Prof. Eitan Yefenof (HUJI)	
	Chairs: Dr. Natalia Freund (TAU)	Dr. Lior Carmon (Industry)	
	Prof. Zaid Abassi (Tech)	211 2101 Culmon (made ay)	
14:30 - 14:55	TBA	TBA	
11.00		Prof. Michal Lotem (HUJI)	
14:55 - 15:20	Prof. Nadir Arber (Sourasky)	TBA	
14.55 - 15.20	Subversion of innate immune response		
	during SARS-CoV-2 infection	Prof. Idit Shachar (WIS)	
45.00 45.45	Yaara Finkel (WIS)		
15:20 - 15:45	SARS-CoV-2 infection: from the beginning	TBA	
	until Omicron (the end?)	Dr. Noga Ron-Harel (Tech)	
	Prof. Michal Mandelboim (Sheba)		
15:45 - 16:10	Characterizing the infectivity and	T cells adaptation to restrained oxidative-	
	neutralization resistance against	phosphorylation (OXPHOS) capacity	
	convalescent and post vaccination sera of	Prof. Michael Berger (HUJI)	
	SARS CoV-2 variants of concern		
	Prof. Ran Taube (BGU)		
16:10 - 16:35	Dissecting SARS-CoV-2 intra-host	Immune Regulatory Roles of the T cell	
	variants to study viral-host interactions	adaptor, Gads	
	Dr. Yotam Bar-On (Tech)	Prof. Deborah Yablonski (Tech)	
16:35 - 17:05		(Exhibition area)	
10100 17100	Hall: Ruth Hall	Hall: Green Hall	
17:05 - 18:20	A: Immuno-metabolism and the	B: Lymphocyte subsets and	
Session 3	microbiome	Immunopathologies	
		•	
	Chairs: Prof. Omri Koren (BIU)	Chairs: Prof. Benjamin Sredni (BIU)	
17:05 - 17:30	Dr. Tsaffrir Zor (TAU)	Dr. Moshe Biton (WIS)	
17.05 - 17.50	TBA	TBA	
47.20 47.55	Dr. Roi Avraham (WIS)	Prof. Naama Geva-Zatorsky (Tech)	
17:30 - 17:55	TBA	TBA	
47 FF 15 55	Prof. Vered Padler-Karavani (TAU)	Prof. Orly Avni (BIU)	
17:55 - 18:20	Autophagy controls colonic mucus	Enforced mTorc1 activation as a strategy for	
	secretion, the gut microbiome and	the treatment of multiple myeloma	
	susceptibility to inflammation via	Prof. Boaz Tirosh (HUJI)	
	suppression of ER stress		
	Dr. Shai Bel (BIU)		
	Hall: Ruth Ha	all	
18:20 - 19:20	Keynote 3: Using dynamic and static 2D a	nd 3D multiplex methods to develop a spatio-	
	temporal understanding of immunity		
	Ron Germain (NIH, MD)		
19:20 - 20:20  Keynote 4: The resolution of inflammation: Defective catabasis and the sequelae of COVID		Defective catabasis and the post-acute	
	Bruce Levy (Boston, MA)		
	Didde Levy (Bostoli, MA)		

Thursday, 24.2.2022 - Rappaport Lecture Halls, The Faculty of Medicine, The Technion

	ay, 24.2.2022 - Rappaport Lecture Halls, The Faculty of Medicine, The Technion	
Time 08:00 - 08:30	Early Birds 2	
06:00 - 06:30		on (Lobby area)
00.20 00.45	Hall: Ruth Hall	Hall: Green Hall
08:30 - 09:45	Short talks from submitted abstracts	Short talks from submitted abstracts  Chair Prof. Father Mouren Holtz (Took)
08:30 - 08:45	Chair. Dr. Ruth Perets (Tech)	Chair. Prof. Esther Meyron-Holtz (Tech)
00.30 - 00.43	1 - TAZ facilitates tumor growth via	6 - Oral bacteria accelerate pancreatic cancer
	promoting an immune-suppressive tumor microenvironment	development
		Dr. Elias Saba (HUJI)
08:45 - 09:00	Anat Gershoni Shoval (WIS)	7. Ossanski sa sa sasal Ossa Masansak sa sa
06.45 - 09.00	2 - IgG Fc structures elicited by COVID-19	7 - Generating a novel Car-Macrophage
	mRNA vaccine are age-dependent and	Therapy for treatment of solid tumors
	distinct from COVID-19 patients	Leen Farhat Younis (TAU)
00:00 00:45	Dr. Tali Feferman (WIS)	0. 0.000
09:00 - 09:15	3 - Spatial and temporal mapping of	8 - RASA2 checkpoint ablation in T cells
	immune cells dynamics in breast cancer	boosts antigen sensitivity and long-term
	metastasis	function
	Dr. Ido Yofe (WIS)	Dr. Eric Shifrut (TAU)
09:15 - 09:30	4 - Effective eradication of local and	9 - The proteasome regulator PSME4
	metastatic tumor lesions by anti-tumor	abrogates response to immunotherapy by
	immune response triggered as result of	promoting a cold-tumor signature
	solid tumors ablation with innovative alpha	Aaron Javitt (WIS)
	particle-mediated radiotherapy	
	Prof. Yona Keisari (TAU)	
09:30 - 09:45	5 - An anti-metastatic role for PROS1 in	10 - Mutant p53 governs tumor
	TME myeloid cells is mediated via	microenvironment dynamics via exosomes and
	regulation of inflammation and immune	outer membrane vesicles
	response	Dr. Tomer Cooks (BGU)
	Prof. Tal Burstyn-Cohen (HUJI)	
	Hall: Ruth Ha	
09:45 - 10:45	_	hts into the cytotoxic mechanisms of Natural
	Killer cells	
	Carsten Watzl (Dortmund, Germany)	
10:45 - 11:00	The Ronnie Apte Memorial session	
	Angel Porgador (BGU) and Charles Dinar	
11:00 - 11:15		(Exhibition area)
	Hall: Ruth Hall	Hall: Green Hall
11:15 - 13:20	A: Innate immunity in Cancer therapy	B: Checkpoint pathways, Cancer and
Session 6	Chairs: <b>Dr. Yaron Carmi (TAU)</b>	Immunotherapy
	Prof. Israel Vlodavsky (Tech)	Chairs: <b>Prof. Lea Eisenbach (WIS)</b>
		Prof. Zvi Fishelson (TAU)
11:15 - 11:40	Immuno-evasion mechanisms of the tumor	Harnessing the Intracellular Proteome for
	colonizing bacterium Fusobacterium	Novel Immunotherapies in Oncology and
	nucleatum	Autoimmunity
	Prof. Ofer Mandelboim (HUJI)	Prof. Yoram Reiter (Tech)
11:40 - 12:05	The role of tumor-associated IL-1α in the	TBA
	prognosis of TNBC in mice	Prof. Angel Porgador (BGU)
	Prof. Elena Voronov (BGU)	
12:05 - 12:30	Fighting tumor-host interactions in 3	Potential Novel Immunotherapeutic
	dimensions	Approaches: From Molecular Mechanisms &
	Prof. Ronit Satchi-Fainaro (TAU)	Signaling Dynamics to Function
	<u> </u>	Prof. Mira Barda-Saad (BIU)
12:30 - 12:55	Reversed immuno-oncology in melanoma	Opposing Roles of Tertiary Lymphoid
	Prof. Gal Markel (TAU)	Structures in Liver Cancer

		Dr. Einat Cinnamon (HUJI)	
12:55 - 13:20	Neutrophil Specific Targeting as a Novel	Chimeric switch receptors to the rescue of	
	Mode of Immuntoherapy	TCR/CAR T-cells to improve immunotherapy	
	Prof. Zvika Granot (HÚJI)	Prof. Cyrille Cohen (BIU)	
13:20 - 14:20		entations (Exhibition area)	
	Hall: Ruth Ha		
14:20 - 15:20			
	Hall: Ruth Hall	Hall: Green Hall	
15:20 - 17:25 Session 7	A: Tumor Microenvironment and	B: Cancer and its microenvironment	
<u>Session r</u>	Immuno-oncology	at the single-cell level	
	Chairs: Prof. Tal Burstyn-Cohen (HUJI)	Chairs: <b>Prof. Tamar Geiger (WIS)</b>	
45.00 45.45	Prof. Isaac Witz (TAU)	Dr. Oren Parnas (HUJI)	
15:20 - 15:45	The immunological state in the tumor	The human tumor microenvironment at single	
	microenvironment: toward the	cell resolution	
	identification of new predictive biomarkers	Prof. Shalev Itzkovitz (WIS)	
	for immunotherapy		
15.15.10.10	Prof. Yuval Shaked (Tech)		
15:45 - 16:10	Turning cold tumors into hot: a CXCR3	Surprising role of melanoma extracellular	
	and CCR8 story	vesicles in tumor immunity	
16:10 - 16:35	Prof. Nathan Karin (Tech)	Prof. Carmit Levy (TAU)	
16:10 - 16:35	Systemic instigation of neuroinflammation	Identifying amino acid cross-talks between the	
	facilitates brain metastasis	tumor and the host for benefiting cancer	
	Prof. Neta Erez (TAU)	diagnosis and therapy	
16:35 - 17:00	Tumor cell-autonomous and PD-1-induced	Prof. Ayelet Erez (WIS)	
10.33 - 17.00		Systemic reprogramming of bone marrow	
	pro-metastatic activities of PD-L1 in	derived neutrophils in glioblastoma  Prof. Dinorah Freidman-Morvinski (TAU)	
	human breast cancer  Prof. Adit Ben-Baruch (TAU)	Prof. Difforati Freidiffati-Worvinski (TAO)	
17:00 - 17:25	Targeting EMMPRIN/CD147 to block the	Cell-in-cell tumor formation provides spatial	
17.00 17.20	metastatic cascade	protection from T cell immunity	
	Prof. Michal (Miki) Rahat (Tech)	Prof. Yaron Carmi (TAU)	
17:25 - 17:55		(Exhibition area)	
	Hall: Ruth Ha		
17:55 - 18:55	Keynote 7: Natural killer cell response to vi		
	Lewis Lanier (San Francisco, CA)		
	Hall: Ruth Hall	Hall: Green Hall	
18:55 - 19:10	Flash talks from submitted abstracts	Flash talks from submitted abstracts	
	Chairs: Dr. Tomer Cooks (BGU)	Chairs: Prof. Vered Padler-Karavani (TAU)	
18:55 - 19:00	1 - Type I Interferon Transcriptional	4 - Harnessing the STING-IFNβ axis to	
	Network Regulates Expression of Co-	enhance the resolution of inflammation	
	Inhibitory Receptors in Human T cells	Nofar Ben Jashar (UoH)	
	Shai Dulberg (TAU)	Troidi Boil Gaoriai (Gori)	
19:00 - 19:05	2 - A physiological counterpart for	5 - COMMD10 regulates adipose tissue	
	endocrine autoimmune disease	macrophage control of energy expenditure	
	Yael Korem Kohanim (WIS)	Dr. Nathan Gluck (TAU)	
19:05 - 19:10	3 - Cancer progression as a learning	1 ' '	
	process		
	Aseel Shomar (Tech)		
	Hall: Ruth Hall		
19:10 - 19:25	Concluding Remarks and Poster Prize		
A 41 A	ingle Academic and Local Committees: Assistant Asial Visual Challed Dai Caril, Assaul Dai		

Meeting's Academic and Local Committees: Amiram Ariel, Yuval Shaked, Roi Gazit, Angel Porgador, Mira Barda-Saad, Uri Hershberg, Deborah Yablonski, Miki Rahat