

ICRS 2023 CONFERENCE

THE 13TH MEETING OF THE ISRAEL CONTROLLED RELEASE SOCIETY '23

Day 1: September, 5th

13:00-14:00	ARRIVAL & LIGHT LUNCH
14:00-14:05	Opening remarks Prof. Avi Schroeder President
	Session 1 - RNA therapeutics: From microfluidic synthesis to targeted delivery Chair: Dr. Assaf Zinger Vice chair: Sivan Barash
14:05-14:35	Developing microfluidic manufacturing processes for nanomedicines Prof. Yvonne Perrie University of Strathclyde, Glasgow, Scotland
14:35-14:55	Modulating gene function using RNA Prof. Dan Peer Tel Aviv University
14:55-15:15	Guiding RNA formulations from laboratory research to the market. Lessons learned from development and optimization of LNP/liposome formulations Dr. Andreas Wagner Polymun Scientific
15:15-15:35	Who should we target? Dr. Ranit Kedmi The Weizmann Institute for Science
15:35-15:55	New insights into the structure of Comirnaty® Covid-19 vaccine Prof. Chezy Barenholz Hebrew University
15:55-16:30	NETWORKING COFFEE
	Session 2 - Innovations in therapeutic approaches: Ultrasound targeting, nanoconjugates, and bioactive phenolate salts Chair: Prof. Ofra Benny Vice chair: Dareen Sader
16:30-16:50	Ultrasound for targeted and selective therapies Prof. Joseph Kost Ben-Gurion University
16:50-17:10	Versatile polypeptide-based nanoconjugates for multimodal therapeutic applications Prof. Maria Jesus Vicent Prince Felipe Research Center, Valencia, Spain
17:10-17:30	Bioactive phenolate salts, a new concept in drug modification Prof. Avi Domb Hebrew University ICRS Outstanding Achievements in Drug Delivery Award
17:30-18:15	Panel 1 - Gene therapy Moderator: Prof. Helder Santos Prof. Dan Peer, Dr. Andreas Wagner, Prof. Rachela Popovtzer, Dr. Eyal Bressler, Prof. Helena Florindo Q&A: Dr. Simon Drescher
18:15-19:00	Flash talks posters 1 Chair: Dr. Zvi Yaari Vice chair: Nitsa Buaron
19:00	DINNER
20:30-21:30	Poster session
21:30	DISCUSSIONS AROUND THE FIRE PIT WITH HERBAL TEA & KARAOKE

Day 2: September, 6th

6:15-8:00	HULA NATURE RESERVE GUIDED BIRDING TOUR
8:00-9:00	BREAKFAST
	Session 3 - Bio-light, bio-printing, bio-mimetics, and bio-distribution Chair: Prof. Rachela Popovtzer Vice chair: Giuseppe Longobardi
9:00-9:35	Keynote: Exploring laser light for advanced drug delivery & advanced surgery in the eye Prof. Stefaan De Smedt Ghent University, Belgium
9:35-9:50	3D-Bioprinted cancer models for target discovery, drug development, and personalized therapy Prof. Ronit Satchi-Fainaro Tel Aviv University
9:50-10:10	Targeting diseased tissues the cell way Prof. Assaf Zinger Technion
10:10-10:30	Old story with new twists: Mechanisms by which nanoparticles accumulate in skin, immune cells, and tumors Prof. Dmitri Simberg University of Colorado, USA
10:30-11:00	NETWORKING COFFEE
	Session 4 - Pushing boundaries in cancer precision medicine: Nano mechanomics, optical nanosensors, targeted modulation, and innovative nanotherapeutics Chair: Prof. Boaz Mizrahi Vice chair: Eliana Steinberg
11:00-11:20	Nano "mechanomics" for precision medicine in cancer Prof. Ofra Benny Hebrew University
11:20-11:40	Developing optical nanosensors for biomedical applications Dr. Zvi Yaari Hebrew University
11:40-12:00	Biomedical polymers for targeted modulation of cells at the tumor microenvironments Prof. Ayelet David Ben-Gurion University
12:00-12:20	Hybrid TiO2-based nanomaterials for sono-dynamic therapy of cancer Prof. Alejandro Sosnik Technion
12:20-12:30	The Phospholipid Research Center – an introduction and current drug delivery projects Dr. Simon Drescher Phospholipid Research Center, Heidelberg, Germany
12:30-12:55	Short talks Prof. Anna Scomparin Moebius Medical *Sponsored by  Arad Ophir *Sponsored by 
12:55	ICRS2023 Group Photo
13:00-14:00	LUNCH
	Session 5 - Personalized healthcare: advancements in tissue implants, therapeutic configurations, and nanomedicine engineering Chair: Dr. Yosi Shamay Vice chair: Dana Meron Azagury
14:00-14:20	Engineering personalized tissue implants: from 3D printing to bionic organs Prof. Tal Dvir Tel Aviv University
14:20-14:40	The beauty of gold: endless configurations for personalized cancer and brain disease therapies Prof. Rachela Popovtzer Bar-Ilan University
14:40-15:00	Drug co-encapsulation as a tool for improved nanomedicines Prof. Alberto Gabizon Shaare Zedek MC and Hebrew University
15:00-15:20	Antibody-targeted lipid-nanoparticles – a journey to the promised LAND Prof. Itai Benhar Tel Aviv University
15:20-15:40	Programmable polymeric formulations Prof. Roey Amir Tel Aviv University
15:40-16:15	COFFEE BREAK + next ICRS president and board elections
16:15-17:00	Panel 2 - Tumor micro environment Moderator: Prof. Chezy Barenholz Prof. Ronit Satchi Fainaro, Prof. Maria Jesus Vicent, Prof. Dmitri Simberg, Dr. Zvi Yaari, Dr. Ranit Kedmi
17:00-18:00	Flash talk posters 2 Chair: Dr. Shady Farah Vice chair: Gal Chen
18:30-20:00	DINNER
20:00	Awards & Dancing: Barenholz prizes, Peer prizes, ADAMA Center Awards, Acknowledging Lab Managers, Special DJ surprise

Day 3: September, 7th

7:00-7:45	MINDFULNESS MEDITATION WORKSHOP
7:30-8:30	ICRS Board meeting
7:30-8:30	BREAKFAST
	Session 6 - ADAMA session: New frontiers in nanomedicine and formulation Chair: Dr. Yosi Shamay Vice chair: Shani Hamias *Sponsored by  
8:35-9:00	Rational design of a polysaccharide-based viral mimicry nanocomplex for potent gene silencing in inflammatory tissues Prof. Helder Santos University Medical Center Groningen (UMCG), The Netherlands
9:00-9:25	Nano-immunotherapy to restore tumor microenvironment immunity Prof. Helena Florindo University of Lisbon, Portugal
9:25-9:45	NanoGhost can intervene in the course of neurological disorders Prof. Marcelle Machluf Technion
9:45-10:05	Microneedles for drug delivery, tissue adhesion and as a platform for living materials Prof. Boaz Mizrahi Technion
10:05-10:25	Using nano/micro shape-memory of protein-based materials for drug delivery systems Dr. Luai Khoury Technion
10:25-11:00	COFFEE NETWORKING
	Session 7 - Advancements in drug delivery systems and therapies: multidisciplinary explorations Chair: Prof. Ayelet David Vice chair: Lior Stotsky
11:00-11:20	Polymeric microneedles as promising drug delivery systems Dr. Aiman Abu Ammar Azrieli College of Engineering
11:20-11:40	Novel biomimetic noninvasive drug delivery systems Dr. Aharon Azagoury Ariel University
11:40-12:00	Engineering and application of crystalline formulations for long-term therapies and complexed Implants rejection prevention Dr. Shady Farah Technion
12:00-12:20	Capturing nanometa-synergy and inter-synergy for high complexity combination therapy Prof. Yosi Shamay Technion
12:20-12:50	Peripherally restricted cannabinoid-1 receptor blockers synthesis and evaluation strategies & ICRS 2023 concluding remarks Prof. Simon Benita Hebrew University
12:50	LIGHT LUNCH AND FAREWELL