1st Israeli Flow Cytometry Conference

March 31 – April 1, 2019
The David Lopatie Conference Centre
Weizmann Institute of Science

SUNDAY, MARCH 31ST

08:30 Gathering and registration
09:15 Opening remarks
09:30 “Devarim: The history and evolution of cytometry”: An interview with Howard Shapiro about the history and evolution of optical flow cytometry
10:50 Coffee break
11:10 Session 1: CELL BIOLOGY
Chair: Uzi Hadad, Ben-Gurion University
11:10 Dana Reichmann, Hebrew University
Using flow cytometry to explore the redox-dependent heterogeneity and aging
11:40 Neta Regev-Rudzki, Weizmann Institute of Science
Malaria parasites modulate Type 1 interferon response by inhibiting CXCL10 secretion
12:10 Mira Barda-Saad, Bar-Ilan University
Harnessing flow cytometry for the development of potential novel immunotherapeutic approach for treating hematopoietic malignancies

12:40 Yishai Ofran, Rambam Medical Center
How best FACS results should be reported to a clinician?
13:10 Lunch + Poster session
(odd numbers) + Exhibition
14:30 Session 2: SINGLE CELL BIOLOGY
Chair: Ziv Porat, Weizmann Institute of Science
14:30 Shalev Itzkovitz, Weizmann Institute of Science
Spatial omics of the mammalian liver
15:00 Benjamin Dekel, Sheba Medical Center
Prospective isolation of human nephron progenitors for kidney regeneration
15:30 Diego Jaitin, Weizmann Institute of Science; Ido Amit
The power of ONE: immunology in the age of single-cell genomics
16:00 Short coffee break
16:20 Session 3: PLANT SCIENCES
Chair: Miriam Kott-Gutkowski, Hebrew University
16:20 Gad Miller, Bar-Ilan University
Analysis of pollen fitness during heat stress by flow cytometry
16:50 Naama Gil, Hebrew University; Idan Efroni
de novo organ formation in plants at single cell resolution
17:20 Lucien Weiss, Technion; Yoav Shechtman
High throughput three dimensional multicolor localization by point-spread-function engineering in imaging flow cytometry
08:30  Gathering and registration

09:00  Session 4: IMMUNOLOGY  
Chair: Efrat Barak, Technion

09:00  Shai Shen-Orr, Technion 
Exploring cell subset variation at high dimension

09:30  Benyamin Rosental, Ben-Gurion University 
Evolutionary origin of the mammalian hematopoietic and immune systems found in a colonial chordate

10:00  Dan Peer, Tel-Aviv University 
A modular platform for RNA therapeutics

10:30  David Azulay, Galilee Medical Center 
Aneuploidy and cell cycle indexing in diagnosing CD10+ diffused-large-B-cell-Lymphoma vs. Follicular-Lymphoma

10:50  Coffee break

11:10  Session 5: MEDICINE AND DIAGNOSTICS  
Chair: Ben-Zion Katz, Ichilov Medical Center

11:10  Eran Zahavy, Israel Institute for Biological Research 
Rapid antibiotic susceptibility test by flow cytometry and SIR analysis

11:40  Ilan Volovitz, Ichilov Medical Center 
From human immune-suppressive cell networks to cancer predictive biomarkers

12:00  Sigi Kay, Ichilov Medical Center 
Next generation flow cytometry for immunophenotyping of hematology malignancies

12:40  Aaron Tomer, Ben-Gurion University 
Flow cytometry application in hemostasis: determination of platelet function and antibody-mediated disorders

13:00  Lunch + Poster session 
(Even numbers) + Exhibition

14:30  Session 6: TECHNOLOGY  
Chair: Amir Grau, Technion

14:30  Merkel Technologies  15:20  BD Israel
14:40  Rhenium Technologies  15:30  Lumitron
14:50  Almog  15:40  Mercury
15:00  Biological Industries  15:50  FlowJo
15:10  BioRad

16:00  Short coffee break

16:20  Session 7: MARINE BIOLOGY  
Chair: Irit Shoval, Bar-Ilan University

16:20  Daniel Sher, University of Haifa 
Combining cell-sorting and Nano-SIMS analysis to study vitality and viability in globally abundant marine cyanobacteria.

16:50  Avia Mizrachi, Weizmann Institute of Science; Assaf Vardi 
Single-cell analysis of the chloroplast redox state predicts cell fate in a marine diatom

17:10  Michael Carlson, Technion; Debbie Lindell 
Oceanic regime shifts shape viral distributions and infection of picocyanobacteria

17:30  Best poster award
17:35  Closing remarks by organizers

Sponsors

Weizmann Institute of Science

Organizers

Ziv Porat  
Weizmann Institute of Science

Amit Tzur  
Bar Ilan University

Steffen Jung  
Weizmann Institute of Science

Coordinator and Accessibility Issues

Reut Hershenhoren  
reut.hershenhoren@weizmann.ac.il

The Chorafas Institute for Scientific Exchange

Life Science Core Facilities

Moross Integrated Cancer Center (MICC)

Department of Immunology