



ISPHO

34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM

Thursday, May 2, 2024

12:30 Gathering, Registration and Visit the Exhibition

13:00 WELCOME GREETINGS

Joanne Yacobovich, ISPHO Chair

GREETINGS AND SCHOLARSHIPS

Moshe Bar-Haim, Chair, Israel Cancer Association

13:15 - 14:45

Session I - ONCOLOGY

Chairs: **Rina Dvir**

Salvador Fischer

13:15 Invasive Fungal Infections in Children with Acute Leukemia: Epidemiology, Risk Factors, and Outcome

Tamar Ruth Gal Etzioni^{1,2}, Nurit Fainshtain³, Adi Nitzan-Luques^{4,1}, **Gal Goldstein**⁴, Sigal Weinreb⁴, Violeta Temper^{3,5}, Maya Korem^{3,5}, Dina Averbuch^{3,2,6}

¹Faculty of Medicine, Hebrew University of Jerusalem, Jerusalem, ²Pediatric Division, Hadassah Medical Center, Jerusalem, ³Faculty of Medicine, Hadassah Medical Center, Jerusalem, ⁴Pediatric Hemato Oncology, Hadassah Medical Center, Jerusalem, ⁵Dept. of Microbiology and Infectious Diseases, Hadassah Medical Center, Jerusalem, ⁶Pediatric Infectious Diseases, Hadassah Medical Center, Jerusalem, Israel

13:30 A Need for a Novel Survival Risk Scoring System for Intensive Care Admissions Due to Sepsis in Pediatric Hematology/Oncology Patients

Talya Wittmann Dayagi¹, Ronit Nirel², Galia Avrahami³, Shira Amar³, Sarah Elitzur³, Salvador Fisher³, Gil Gilead³, Oded Gilad³, Tracie Goldberg³, Shai Izraeli³, Gili Kadmon⁴, Eytan Kaplan⁵, Aviva Krauss³, Orli Michaeli³, Jerry Stein³, Orna Steinberg-Shemer³, Hannah Tamary³, Osnat Tausky⁵, Helen Toledano³, Avichai Weissbach⁴, Joanne Yacobovich³, Asaf Yanir³, Jessica Zon⁶, Elhanan Nahum⁴,

Shlomit Barzilai-Birenboim³

¹Division of Haematology and Oncology, Dept. of Paediatrics, The Hospital for Sick Children, University of Toronto, Ontario, Canada; ²Dept. of Statistics and Data Science, Hebrew University, Jerusalem, Jerusalem, Israel, ³Pediatric Hematology-Oncology, Schneider Children's Medical Center of Israel, Petach Tikva, Israel, ⁴Dept. of Pediatric Intensive Care Unit, Schneider Children's Medical Center of Israel, Petach Tikva, Israel, ⁵Dept. of Paediatrics, Schneider Children's Medical Center of Israel, Petach Tikva, Petach-Tikva, ⁶Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel

Secretariat: **Target Conferences Ltd.**, PO Box 51227, Tel Aviv 6713818, Israel
Tel: +972 3 5175150, Fax: +972 3 5175155, E-mail: ispho@target-conferences.com



34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM

Thursday, May 2, 2024 (cont.)

13:15 - 14:45 Session I - ONCOLOGY (cont.)

13:45 Alternaria Invasive Infection in Children with Hemato-Oncological Disease - A National Multicenter Report

Aviv Sever¹, Chen Rosenberg Danziger², Nimrod Sachs^{2,3}, Fisher Salvador^{4,3},
Efraim Bilavsky^{5,3}, Gilad Sherman^{6,3}, Yael Shachor-Meyouhas^{7,8},
Galia Grisaru^{3,9}, Haim Ben Zvi¹⁰

¹Pediatric Hematology-Oncology, Schneider Children's Medical Center of Israel, Petach- Tikva, ²Dept. of Pediatrics C, Schneider Children's Hospital, Petach Tikvah, ³Faculty of Medicine, Sackler, Tel Aviv, ⁴Pediatrics Hemato-Oncology, Schneider Children's hospital, Petach Tikvah, ⁵Pediatric Infectious Disease Unit, Schneider Children's Hospital, Petach Tikvah, ⁶The Edmond and Lily Safra Children's Hospital, Sheba Medical Center, Ramat Gan, ⁷The Ruth & Bruce Rappaport Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, ⁸Pediatric Infectious Disease Unit and Management, Rambam Health Care Campus, Haifa, ⁹Infectious Diseases Unit & Intensive Care Unit, Tel Aviv Sourasky Medical Center, Tel Aviv, ¹⁰Microbiology Laboratory, Beilinson Hospital, Rabin Medical Center, Petach Tikvah, Israel

14:00 Re-exposure to High-dose MTX after Severe Delayed Elimination

Shlomit Barzilai-Birenboim¹, Torben Mikkelsen²

¹Pediatric Hematology-Oncology, Schneider Children's Medical Center of Israel, Petach- Tikva, Israel; ²Dept. of Pediatric Oncology and Hematology, Aarhus University Hospital, Aarhus, Denmark

14:15 **Sponsored lecture by Rhenium**

Integrative Genomics in Childhood Cancer Extends Beyond Targetable Somatic Mutations

Orli Michaeli

Cancer Genetics and Oncology Clinics, Schneider Children's Medical Center of Israel, Petach Tikva, Israel



34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM

Thursday, May 2, 2024 (cont.)

13:15 - 14:45

Session I - ONCOLOGY (cont.)

POSTER PRESENTATION

- 14:35 The Role of Check Point Inhibitors in Pediatric Primary Diffuse Leptomeningeal Melanomatosis: report of 2 cases
Liat Oren Malek¹, Evgeny Vlodavski², Michal Raz³, Zohar Yaniv², Mony Benifla⁴, Shlomi Constantini⁵, Myriam Ben Arush¹, Gadi Abebe Campino⁶
¹Pediatric Oncology Hematology, Rambam Medical Center, Haifa, ²Pathology, Rambam Medical Center, Haifa, ³Pathology, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel; ⁴Pediatric Neurosurgery, Rambam Medical Center, Haifa, ⁵Pediatric Neurosurgery, Tel Aviv Sourasky Medical Center, Tel Aviv, ⁶Pediatric Oncology Hematology, Sheba Medical Center, Tel Aviv, Israel
- 14:38 Correction of T-Cell Repertoire and Autoimmune Diabetes in NOD Mice by Non-Myeloablative T-Cell Depleted Allogeneic HSCT
Rakefet Sidlik Muskate^{1,2}, Bar Nathansohn-Levi², Shlomit Reich-Zeliger², Michal Mark², Liat Stoler-Barak², Chava Rosen^{2,3}, Irit Milman-Krentsis³, Esther Bachar Lustig³, Robert Peter Gale⁴, Nir Friedman², Yair Reisner³
¹Hematology-Oncology, Schneider Children's Medical Center of Israel, Petach- Tikva, Israel, ²Immunology Dept., The Weizmann Institute of Science, Rehovot, Israel; ³Stem Cell and Cellular Therapy Research, The University of Texas MD Anderson Cancer Center, Houston, USA; ⁴Haematology Research Centre, Dept. of Immunology and Inflammation, Imperial College London, London, UK
- 14:41 Proton Beam Radiotherapy for Refractory Bilateral Retinoblastoma in Israel
Gal Goldstein¹, Shahar Frenkel^{2,3}, Jacob Pe'er^{4,3}, Maya Eiger^{5,3}, John Feldman⁶, Aron Popovtzer^{6,3}
¹Pediatric Hemato Oncology, Hadassah Medical Center, Jerusalem, ²Ophthalmology Dept., Hadassah Medical Center, Jerusalem, Israel; ³Faculty of Medicine, Hebrew University of Jerusalem, Jerusalem, ⁴Pediatric Hemato Oncology, Hadassah Medical Center, Jerusalem, ⁵Ophthalmology Department, Hadassah Medical Center, Jerusalem, ⁶Dept. of Oncology, Hadassah Medical Center, Jerusalem, Israel
- 14:44 *Short Coffee Break*



ISPHO

34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM

Thursday, May 2, 2024 (cont.)

15:00 - 16:10

Session II - HEMATOLOGY

Invited Lectures

Chairs: **Carina Levin**
Dani Raved

- 15:00 Hematology of the Newborn - **Zoom**
Jillian Baker, Dept. of Pediatrics, The Hospital for Sick Children, Toronto, Canada
- 15:40 HHV6 Triggered Hemophagocytic Lymphohistiocytosis a Multi-Center 7-Case Series
Shifra Ash¹, Joanne Yacobovich², Avshalom Pomeranz³, Yoav Messinger¹
¹Pediatric Hematology Oncology, Rambam Health Care Campus, Haifa,
²Pediatric Hematology Oncology, Schneider Children's Medical Center of Israel,
Petach-Tikva, ³Pediatric Nephrology, Clalit Health Services, Netanya, Israel
- 15:55 Compassionate use of Emapalumab in Children with Life-Threatening Disorders_ Real World Data
Joanne Yacobovich¹, Jerry Stein¹, Michael Jordan², Oded Gilad¹,
Dafna Brik Simon¹, Asaf Yanir¹, Ofer Schiller⁴, Eran Shostak³,
Orna Steinberg-Shemer¹, Aviva Krauss¹
¹Pediatric Hematology-Oncology, Schneider Children's Medical Center of Israel,
Petach Tikva, Israel; ²Division of Immunobiology and Division of Bone Marrow
Transplantation and Immune Deficiency, Cincinnati Children's Hospital Medical
Center, Cincinnati, OH, USA; ³Pediatric Cardiac Intensive Care Unit, Schneider
Children's Medical Center of Israel, Petah Tikva, Israel
- 16:10 *Coffee Break and Visit the Exhibition*



34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM

Thursday, May 2, 2024 (cont.)

16:40 - 18:25

Session III - ONCOLOGY

Chairs: **Shirah Amar**
Liat Oren Malek

16:40 **Invited Lecture**

Managing P-Selectin-Expressing Brain Malignancies in 3 Dimensions

Ronit Satchi-Fainaro

Cancer Research and Nanomedicine Laboratory; The Hermann and Kurt Lion Chair in Nanosciences and Nanotechnologies; Cancer Biology Research Center; Dept. of Physiology and Pharmacology, Faculty of Medicine, Sagol School of Neuroscience, Tel Aviv University, Tel Aviv, Israel

17:10 **Invited Lecture**

Developing Effective Immunotherapy Strategies Employing Genetically Engineered T Cells for Pediatric Gliomas

Dinorah Friedmann-Morvinski

Biochemistry Molecular Biology The George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv, Israel

17: 40 Identifying Cell Free DNA in Cerebrospinal Fluid of children with Brain Tumors - A Powerful Tool for a Rapid and Less Invasive Diagnosis and Follow Up

Gal Goldstein¹, Hodaya Cohen¹, Jacob Kaufman², Shahar Frenkel^{3,2}, Jacob Pe'Er^{3,2}, Maya Eiger Moscovich^{3,2}, Hanna Charbit^{4,2}, Iris Lavon^{4,2}

¹Pediatric Hemato Oncology, Hadassah Medical Center, Jerusalem,

²The Faculty of Medicine, Hebrew University of Jerusalem, Jerusalem,

³The Dept. of Ophthalmology, Hadassah Medical Center, Jerusalem, ⁴Molecular Neuro-Oncology Laboratory, Neurology Dept. and Leslie and Michael Gaffin Center for Neuro-Oncology, Hadassah Medical Center, Jerusalem, Israel

17:55 The Importance of PET-CT Timing in the Identification of Lymph Node Involvement in Osteosarcoma

Yair Peled, Dror Levin, Michal Manisterski, Maayan Siri, Netanya Kolander, Ronit Elhasid

Pediatric Hematology and Oncology, Tel-Aviv Medical Center, Tel Aviv, Israel



34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM

Thursday, May 2, 2024 (cont.)

16:40 - 18:25

Session III - ONCOLOGY (cont.)

- 18:10 Gastric Burkitt Lymphoma- Case Series and Review of the Literature
Dana Askenazi-Lustig¹, Maayan Siri², Dan Harlev³, Gil Gilead⁴,
Hanna Golan⁵, Myriam Ben Aarush¹
¹Pediatric Hematology and Oncology, Rambam Medical Center, Haifa,
²Pediatric Hematology and Oncology, Sourasky Medical Center, Tel Aviv,
³Pediatric Hematology and Oncology, Hadassa Medical Center, Jerusalem,
⁴Pediatric Hematology and Oncology, Schneider Children's Medical Center of
Israel, Petach-Tiqva, ⁵Pediatric Hematology and Oncology, Sheba Medical Center,
Ramat Gan, Israel
-

18:25 - 19:15

Session IV - ISPHO

- 18:25 ISPHO AGM report - Pediatric Hematology Oncology - Facing forward?
Joanne Yacobovich, Carina Levin, Tal Ben Ami, Oz Mordechi, Dani Raved
- 19:15 *End of day's sessions*
- 20:30 GREETINGS
Avshalom Cohen, Chairman, Hayim Association - for Children with Cancer in Israel



ISPHO

34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM

Friday, May 3, 2024

08:00 - 10:35 Session V - ONCOLOGY

Chairs: **Gadi Abebe Campino**
Shifra Ash

08:00 **Invited Lecture**

Modern Diagnostic Methods Including Nano Power

Shai Izraeli

Rina Zaizov Division of Pediatric Hematology Oncology, Schneider Children's
Medical Center of Israel, Petach-Tiqva, Israel

08:20 **Invited Lecture**

Proteomic landscapes of Ewing Sarcoma Unravel Immunological Regulation of Tumor
Progression

Tamar Geiger

Human Molecular Genetics and Biochemistry, Sackler Faculty of Medicine,
Tel Aviv University, Tel Aviv and Weizmann Institute of Science, Rehovot, Israel

08:50 **Sponsored by Takeda**

Lessons from Naxitamab use in Israel: the first Country Approving use in Real World
Clinical Setting

Iris Fried

Pediatric Hematology Oncology Unit, Shaare Zedek Medical Center, Jerusalem, Israel

09:10 Neuroblastoma-Specific Clinically Validated Liquid Biopsy Panel Improves
Detection of Targetable Variants

Esther Berko¹, Grace Polkosnik², Alexander Daniels², Feng Xu³, Lea Surrey³,
Yael Mosse²

¹Hematology Oncology, Schneider Children's Medical Center of Israel, Petach-Tiqva,
Israel, ²Oncology, Children's Hospital of Philadelphia, Philadelphia, PA,
USA; ³Division of Genomic Diagnostics, Children's Hospital of Philadelphia,
Philadelphia, PA, USA



ISPHO

34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM

Friday, May 3, 2024 (cont.)

08:00 - 10:35 Session V - ONCOLOGY (cont.)

- 09:25 The Power to Heal Ourselves - Promising Results for Users of Serum Eye Drops
Lilach Bonstein¹, Lilach Bonstein¹, Smarktín Klara¹, Sakhnini Shuq¹,
Benaim Ilanit¹, Debes Tareq², Michael Mimouni^{2,3}
¹Blood Bank and Bio iDrops Service, Rambam Medical Center, Haifa, ²Dept. of
Ophthalmology, Rambam Health Care Campus, Haifa, ³Bruce and Ruth
Rappaport Faculty of Medicine, Technion-Israel Institute of Technology, Haifa,
Israel
- 09:40 Venous-Occlusive Disease in Pediatric Patients Following Hematopoietic Stem Cell
Transplantation: Prognostic Factors Associated with Mortality
Irina Zaidman¹, Ehud Even-Or¹, Polina Stepensky¹, Natali Barsoum², Aharon Gefen³
¹Bone Marrow Transplantation, Hadassah Medical Center, Jerusalem, ²Dept. of
Pediatrics, Hadassah Medical Center, Jerusalem, ³Pediatric Hemato-oncology,
Rambam Medical Center, Haifa, Israel
- 09:55 **Sponsored Lecture - Medison Pharma - Zoom**
Role of Immunotherapy in the Treatment of High-Risk Neuroblastoma
Holger Lode
Professor and Chair of Pediatrics, University Medicine of Greifswald, Germany

10:35 - 11:35 Session VI - WELL BEING

- 10:35 "Laugh it Up" - Using Humor to Improve your Health, Wealth and Happiness
Shai Gelber, Expert on humor
- 11:35 *Coffee Break and Visit the Exhibition*



ISPHO

34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM (cont.)

Friday, May 3, 2024 (cont.)

12:00 - 13:15 Session VII - HEMATOLOGY/BMT

POSTER PRESENTATION

Chairs: **Hagit Miskin**
Orna Steinberg-Shemer

- 12:00 Symptomatic Corpus Luteum Hemorrhage in Adolescent Females with ITP
Alexander Yelak¹, Anat From², Oded Gilad^{1,3}, Dafna Brik Simon¹,
Shiri Rubin³, Miriam Cohen¹, Carina Levin^{4,5}, Doua Bakry⁶, Shai Izraeli^{1,3},
Hannah Tamary^{1,3}, Joanne Yacobovich^{1,3}, Orna Steinberg-Shemer^{1,3,7}
¹Hematology-Oncology, Schneider Children's Medical Center of Israel,
Petach Tikvah, ²Gynecology Clinic for Girls and Adolescents, Schneider
Children's Medical Center of Israel, Petach Tikvah, ³Faculty of Medicine,
Tel Aviv University, Tel Aviv, ⁴Rappaport Faculty of Medicine, Technion-Institute
of Technology, Haifa, ⁵Pediatric Hematology Unit and Research Laboratory,
Emek Medical Center, Afula, ⁶Dept. of Pediatrics, Ziv Medical Center, Safed,
⁷Pediatric Hematology Research Laboratory, Felsenstein Medical Research
Center, Petach Tikvah, Israel
- 12:03 Epigenetic Liquid Biopsy Reveals Turnover Dynamics of Erythroid Cells Expressing Fetal
Globin in Sickle Cell Disease
Ilana Fox-Fisher¹, Ruth Shemer¹, India Sisler², **Gal Goldstein**³,
Benjamin Glaser^{4,5}, Joseph Laver², Yuval Dor¹
¹Dept. of Developmental Biology and Cancer Research, Institute for Medical
Research Israel-Canada, The Hebrew University-Hadassah Medical School,
Jerusalem, Israel; ²Division of Pediatric Hematology-Oncology and Stem Cell
Transplantation, Virginia commonwealth university, Richmond VA,
USA; ³Pediatric Hemato Oncology, Hadassah Medical Center, Jerusalem,
Israel; ⁴Endocrinology and Metabolism Service, Hadassah Medical Center,
Jerusalem, Israel; ⁵The Faculty of Medicine, The Hebrew University, Jerusalem,
Israel



ISPHO

34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM (cont.)

Friday, May 3, 2024 (cont.)

12:00 - 13:15 **Session VII - HEMATOLOGY/BMT**

POSTER PRESENTATION (cont.)

- 12:06 Presence of "ACKR1/DARC Null" Polymorphism in Arabs from Jisr az-Zarqa with Benign Ethnic Neutropenia
Nechama Sharon¹, Dana Elhadad², Amos J Simon³
¹Dept. of Pediatrics, Laniado Hospital, Netanya, ²Oncology, Rabin Medical Center, Petah Tikva, ³Cancer research center, Sheba MC, Ramat Gan, Israel
- 12:10 **Invited Lecture - Sponsored by Takeda**
Algorithmic Approach to Splenomegaly: Navigating the Maze of Differential Diagnosis
Shoshana Revel-Vilk
Pediatric Hematology/Oncology unit and Gaucher unit, Shaare Zedek Medical Center Jerusalem, Israel
- 12:30 Cryogenic Scanning Electron Microscopy Study of Hereditary Hemolytic Anemias
Irina Davidovich^{1,2}, Carina Levin^{3,4}, Ariel Koren³, Yeshayahu Talmon^{1,2}
¹Chemical Engineering Faculty, Technion-Israel Institute of Technology, Haifa, ²Russell Berrie Nanotechnology Institute, Technion-Israel Institute of Technology, Haifa, ³Pediatric Hematology Unit, Emek Medical Center, Afula, ⁴Rappaport Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel
- 12:45 Hemoglobin City of Hope May Cause Severe Microcytic Anemia When Co-inherited with an Additional Variant in Beta-Globin
Dafna Brik Simon¹, Dvora Filon², Vardiella Meiner^{3,4}, Tanya Krasnov⁵, Sharon Noy-Lotan⁵, Orly Dgany⁵, Oded Gilad¹⁶, Tracie Goldberg¹, Shai Izraeli^{1,7}, Joanne Yacobovich^{1,5,7}, Hannah Tamary^{1,5,7}, Orna Steinberg-Shemer^{1,5,7}
¹Dept. of Hematology-Oncology, Schneider Children's Medical Center, Petach Tikva, Israel, Tel Aviv, ²Dept. of Hematology-Oncology, Hadassah Medical Center, Jerusalem, ³Dept. of Genetics, Hadassah Medical Center, Jerusalem, ⁴Faculty of Medicine, Hebrew University of Jerusalem, Jerusalem, ⁵Pediatric Hematology Laboratory, Felsenstein Medical Research Center, Petach Tikva, ⁶Pediatric Hematology Laboratory, Tel Aviv University, Tel Aviv, ⁷Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel



ISPHO

34th Annual Conference of the Israeli Society of
Pediatric Hematology Oncology (ISPHO)

Roxon Desert, Arad

May 2-4, 2024



SCIENTIFIC PROGRAM (cont.)

Friday, May 3, 2024 (cont.)

12:00 - 13:15 Session VII HEMATOLOGY/BMT (cont.)

- 13:00 Risk and Promise: An 11-Year, Single-Center Retrospective Study of Severe Acute GVHD in Pediatric Patients Undergoing Allogeneic HSCT for Nonmalignant Diseases
Irina Zaidman¹, Ehud Even-Or¹, Dina Averbuch², Yael Dinur-Schejter¹, Adeeb Nasereddin¹, Mordechai Slae², Bella Shadur³, Polina Stepensky¹
¹Bone Marrow Transplantation, Hadassah Medical Center, Jerusalem, Israel; ²Dept. of Pediatrics, Hadassah Medical Center, Jerusalem, Israel; ³Immunology Division, Garvan Institute of Medical Research, Sydney, Australia
- 13:15 Concluding Remarks
Joanne Yacobovich, ISPHO Chair