

ANNUAL CONFERENCE OF THE ISRAELI LEAGUE AGAINST EPILEPSY



PROGRAM

7-8 February, 2023

Daniel Hotel, Herzliya, Israel

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SCIENTIFIC PROGRAM



TUESDAY, FEBRUARY 7, 2023

- 08:00 *Registration, Coffee and Visit the Exhibition*
- 08:25 Welcome and Opening Remarks
Bruria Ben-Zeev, President, Israeli League Against Epilepsy
- 08:30 ESES/CSWS - To Sleep with the Enemy
Iris Noyman
Pediatric Neurology Unit, Soroka Medical Center, Beer Sheba
- 09:00 Epilepsy and Cognitive Impairment: A Bidirectional Relationship
Moshe Hershkovitz
Epilepsy Service, Dept of Neurology, Rambam Health Care Campus, Technion Faculty of Medicine, Haifa
- 09:30 Introduction to Rodent Models of Epilepsy
Yitzhak Schiller
Dept of Neurology, Rambam Health Care Campus, Haifa
- 10:00 ***Sponsored by Sigma***
Mechanisms of Action of VNS: A Role of Brain Connectivity Changes?
Fabrice Bartolomei
Head of the Epileptology and Cerebral Rhythmology Dept, La Timone Hospital, Marseille, France
- 10:40 *Coffee Break and Visit the Exhibition*
- 11:10 *Guest Lecture:*
Ambulatory Video-EEG - New Insights into Seizure Management
Mark Cook
Professor of Neurology, University of Melbourne, Australia
- 11:40 *Guest Lecture:*
Personalized Neurostimulation in Epilepsy
Dawn Eliashiv
Professor of Neurology, David Geffen School of Medicine at UCLA
Co-Director UCLA Seizure Disorder Center, Los Angeles, CA, USA
- 12:10 ***Sponsored by Medtronic***
Deep Brain Stimulation for Drug-Resistant Epilepsy
Firas Fahoum
Epilepsy and EEG Unit, Neurology Division, Tel Aviv Sourasky Medical Center
- 12:40 ***Sponsored by Neopharm Israel - Zoom***
Pharmacological Treatment of Epilepsy in Elderly: Clinical Insights
Simona Lattanzi
Neurological Clinic, Dept of Experimental and Clinical Medicine, Marche Polytechnic University, Italy

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TUESDAY, FEBRUARY 7, 2023 (Cont.)

- 13:00 ***Sponsored by Truemed***
The Impact of Antiseizure Medications Scheduling
Firas Fahoum
Epilepsy and EEG Unit, Neurology Division, Tel Aviv Sourasky Medical Center
- 13:20 ***Sponsored by Dexcel***
Cenobamate - What is Known and What We Still Have to Learn
Bruria Ben-Zeev
¹Pediatric Neurology, Safra Children's Hospital, Sheba Medical Center, Ramat Gan, ²The Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel
- 13:40 *End of Day's Sessions and Lunch*

WEDNESDAY, FEBRUARY 8, 2023

- 08:00 *Registration and Visit the Exhibition*
-
- 08:30-10:10 OPENING SESSION**
-
- 08:30 Welcome and Opening Remarks
Annual Report of the Israeli League Against Epilepsy
Bruria Ben-Zeev, President, Israeli League Against Epilepsy
- 08:40 Guidelines Update and Elections
Bruria Ben Zeev and Sara Eyal
- 09:00 The Israeli Association of Epilepsy Patients - Work Plan for 2023
Anat Goren, Chairperson, Eyal Israeli Epilepsy Association
- 09:10 ***In Memory of Dr. Rimma Bar Yossef***
Dana Ekstein^{1,2}
¹Dept of Neurology and Agnes Ginges Center for Human Neurogenetics, Hadassah Medical Organization, Jerusalem, ²The Faculty of Medicine, Hebrew University of Jerusalem, Jerusalem, Israel
Invited Lecture:
The Many Faces of Juvenile Myoclonic Epilepsy
Ilan Blatt
Dept of Neurology, Chaim Sheba Medical Center, Tel Hashomer, Ramat Gan, Israel
- 09:40 *Guest Lecture:*
Ultra Long-Term Monitoring Devices - Advances and Opportunities
Mark Cook
Professor of Neurology, University of Melbourne, Australia

SCIENTIFIC PROGRAM



WEDNESDAY, FEBRUARY 8, 2023 (Cont.)

10:10-11:15 SESSION I - ABSTRACT PRESENTATIONS

Chairpersons: **Tal Gilboa**, Israel
Lilach Goldstein, Israel

- 10:10 Long-Term Cognitive Consequences of Self-Limited Epilepsies of Childhood - are they Really so Benign?
Leo Arkush^{1,4}, Jacob Megreli^{2,3}, Gilad Twig³, Bruria Ben Zeev^{1,4}, Jannaah Ahronsika Asa⁵, Gali Heimer^{1,4}
¹Pediatric Neurology, Safra Children's Hospital, Sheba Medical Center, Ramat Gan, ²Dept of Ophthalmology, Rabin Medical Center, Petah Tikva, ³Medical Corps, Israel Defence Forces, Ramat Gan, ⁴The Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, ⁵Pediatric Rehabilitation Dept, Safra Children's Hospital, Sheba Medical Center, Ramat Gan, Israel
- 10:22 Reading Difficulties Among Children with Self-Limited ("Rolandic") Epilepsy with Centrottemporal Spikes: an fMRI Study
Dror Kraus¹, Lital Cohen-Vig¹, Hadassa Goldberg-Stern¹, Raya Meri², Amir Pshytycky¹, Rola Farah³, Tzipi Horowitz-Kraus³
¹Child Neurology, Schneider Children's Hospital, Petah Tikva, ²Child Neurology, Technion, Haifa, ³Educational Neuroimaging Group, Faculty of Education in Science and Technology, Technion, Haifa, Israel
- 10:34 DEP Score - A Simple Bedside Tool to Diagnose Psychogenic non Epileptic Seizures
Raz Winer¹, **Mark Katson**², Alaa Bsoul², Yonathan Danin², Noam Bosak², Moshe Herskovitz^{3,4}
¹Neurillogy, Toronto Western Hospital, Toronto, Canada; ²Neurillogy, Rambam Health Care Campus, Haifa, Israel; ³Neurillogy, Rambam Health Care Campus, Haifa, Israel; ⁴Mecicine, Technion Institute of Technology, Haifa, Israel
- 10:46 Which Psychogenic Non-Epileptic Seizures (PNES) Patients Are More Likely to Be Treated with Anti-Seizure Medications?
Ronen Spierer, Moshe Herskovitz
Neurology Dept, Rambam Health Care Campus, Haifa, Israel
- 10:58 Rate of Cognitive Decline before Seizure Diagnosis In Individuals With Dementia and Seizures
Ophir Keret¹, Isabel Elaine Allen Allen², **Ilan Goldberg**³, Felix Beninger⁴, Amir Glik¹
¹Cognitive Neurology Clinic, Rabin Medical Center , Petah Tikva , Israel; ²Dept of Epidemiology and Biostatistics, University of California San Francisco, S an Francisco, United States Minor Outlying Islands; ³Neurology, Rabin Medical Center, Ramat Hasharon, Israel; ⁴Dept of Neurology, Rabin Medical Center, Petah Tikva, Israel
- 11:10 Discussion
- 11:15 *Coffee Break and Visit the Exhibition*

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WEDNESDAY, FEBRUARY 8, 2023 (Cont.)

11:45-13:36

SESSION II

Chairpersons: **Felix Benninger**, Israel
Michal Tzadok, Israel

11:45 Epileptogenic Networks in Focal Epilepsies: From Quantification to Modelling
Fabrice Bartolomei
Head of the Epileptology and Cerebral Rhythmology Dept, La Timone Hospital,
Marseille, France

ABSTRACT PRESENTATIONS

- 12:15 Identifying Pre-Ictal Patterns Using EEG Analysis
Galya Segal^{1,2}, Moshe Hershkovitz^{3,2}, Yael Yaniv¹
¹Biomedical Engineering, Technion IIT, Haifa, ²The Ruth and Bruce Rappaport
Faculty of Medicine, Technion IIT, Haifa, ³Neurology, Rambam, Haifa, Israel
- 12:27 EEG Quantum Potential Changes due to Vagus Nerve Stimulation (VNS) and Prediction
of VNS Efficacy
Hillel Abramovitch¹, Ilan Goldberg², Idit Tamir³, **Felix Benninger**², Oded Shor⁴
¹Sackler Medical School, University of Tel Aviv, Tel Aviv, ²Neurology,
Rabin Medical Center, Petach Tikva, ³Neurosurgery, Rabin Medical Center,
Petach Tikva, ⁴Felsenstein Medical Research Center, Tel Aviv University,
Petach Tikva, Israel
- 12:39 Corticotropin Releasing Factor Mediates KCa3.1 Inhibition, Hyperexcitability, and
Seizures in Acquired Epilepsy
Manindra Nath Tiwari¹, Mohan Sandesh¹, Yoav Biala¹, **Felix Benninger**²,
Oded Shor³, Yoel Yaari¹
¹Dept of medical Neurobiology, Hebrew University, Jerusalem, ²Neurology,
Rabin Medical Center, Petach Tikva, ³Felsenstein Medical Research Institutew,
Tel Aviv University, Petach Tikva, Israel
- 12:51 Dimethyl Fumarate Exerts a Disease Modifying Effect in A Rat Model Of Temporal Lobe
Epilepsy
Sereen Sandouka, **Tawfeeq Shekh-Ahmad**
Dept of Pharmaceutics, Hebrew University of Jerusalem, Jerusalem, Israel
- 12:59 Semi-Automatic Detection of Pre-Ictal and Ictal Changes in Functional Near Infrared
Spectroscopy
Netaniel Rein^{1,2}, Oshrit Arviv^{1,2}, Dana Ekstein^{1,2}, Tal Benoliel^{1,2}, Diya Doufish^{1,2},
Naomi Froimovich¹, Yuliya Katz¹, Michal Balberg³, Mordekhay Medvedovsky¹
¹Dept of Neurology and Agnes Ginges Center for Human Neurogenetics,
Hadassah Medical Organization, Jerusalem, ²The Faculty of Medicine, Hebrew
University of Jerusalem, Jerusalem, ³Faculty of Engineering, Holon Institute of
Technology, Holon, Israel

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WEDNESDAY, FEBRUARY 8, 2023 (Cont.)

11:45-13:36

SESSION II - ABSTRACT PRESENTATIONS (cont.)

13:07

Hippocampal Resection During Hemispherotomy - Is It Needed?

Lottem Bergman¹, Ben Shofty^{1,2}, Ariel Agur¹, Shimrit Uliel^{3,4}, Itzhak Fried^{1,4}, Howard Weiner^{2,5}, Jonathan Roth^{1,4}

¹Dept of Pediatric Neurosurgery, Dana Children's Hospital, Tel-Aviv Medical Center, Tel Aviv-Yafo, Israel; ²Dept of Neurosurgery, Baylor College of Medicine, Houston, TX, USA; ³Pediatric Epilepsy Unit, Dana Children's Hospital, Tel-Aviv Medical Center, Tel Aviv-Yafo, Israel; ⁴Dept of Neurology & Neurosurgery, Sackler School of Medicine, Tel Aviv University, Tel Aviv-Yafo, Israel; ⁵Division of Pediatric Neurosurgery, Dept of Surgery, Texas Children's Hospital, Houston, TX, USA

13:19

Epilepsy and Focal Cortical Dysplasia. Should the Two Medication Failure Paradigm be Pursued?

Ido Ben Zvi^{1,2}, Noelle Enright^{3,3}, Felice D'arco^{4,4}, M. Zubair Tahir^{2,2}, Aswin Chari^{2,2}, J Helen Cross^{3,3}, Christin Eltze^{3,3}, Martin M Tisdall²

¹Neurosurgery, Schneider Children's Medical Center of Israel, Petah Tikva, Israel; ²Neurosurgery, Great Ormond Street Hospital for Children, London, UK; ³Neurology, Great Ormond Street Hospital for Children, London, UK; ⁴Radiology, Great Ormond Street Hospital for Children, London, UK

13:31

Discussion

13:36

Lunch Break and Visit the Exhibition

14:30-17:10

SESSION III

Chairpersons: **Dror Kraus**, Israel
Mordekhay Meedvedovsky, Israel

14:30

Guest Lecture

Mechanisms and Treatment of Impaired Consciousness in Focal Seizures

Hal Blumenfeld

Yale Clinical Neuroscience Imaging Center (CNIC), Professor of Neurology, Neuroscience and Neurosurgery, Yale University School of Medicine, New Haven, CT, USA

ABSTRACT PRESENTATIONS

15:00

Stiripentol (STP) Add-on Therapy - Beyond Dravet Syndrome

Lital Cohen Vig¹, Nina Shirman², Dror Kraus¹, Hadassa Stern Goldberg¹

¹Neurology, ²Pediatric Dept B, Schneider's Children Medical Center of Israel, Petah Tikva, Israel

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WEDNESDAY, FEBRUARY 8, 2023 (Cont.)

14:30-17:10 **SESSION III (cont.)**

- 15:08 Beyond the Anti-Epileptic Drugs - Ketogenic Diet as a Salvage Therapy In Epilepsy
Shany Lando Dotan¹, Jacob Bistritzer², Dror Kraus¹, Amir Pshytycky¹, Danielle Rokach³, Shemer Marziano³, Shelly Shteiling³, Hadassa Goldberg-Stren¹
¹Epilepsy Unit, Schneider Children's Medical Center of Israel, Petach Tikva, ²Child Neurology Dept, Soroka Medical Center, Be'er Sheva, ³Dietary Service, Schneider Children's Medical Center of Israel, Petach Tikva, Israel
- 15:16 The Different Clinical and Electrophysiological Effects of Cannabidiol-Enriched Oils on Adult Patients with Drug-Resistant Epilepsy
Inbal Maidan^{1,2,3}, Sigal Glatt^{1,2}, Sophie Shohat^{1,4}, Mor Yam¹, Firas Fahoum^{1,2}
¹Neurology, Tel Aviv Sourasky Medical Center, Tel Aviv, ²Faculty of Medicine, Tel Aviv University, Tel Aviv, ³Sagol school of Neuroscience, Tel Aviv University, Tel Aviv, ⁴Faculty of Engineering, Tel Aviv University, Tel Aviv, Israel
- 15:24 High Dose Diazepam Treatment In ESES
Nasrin Hamed^{1,2}, Gali Heimer^{1,2}, Efrat Zohar-Dayan^{1,2}, Bruria Ben-Zeev^{1,2}, Michal Tzadok^{1,2}
¹Pediatric Neurology, Safra Children's Hospital, Sheba Medical Center, Ramat Gan, ²The Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel
- 15:32 New Onset Refractory Status Epilepticus : Successful Treatment with High Dose Potassium Bromide
Diya' Doufish^{1,2}, Tal Benolie^{1,2}, Mordechai Madvedovsky^{1,2}, Dana Ekstein^{1,2}
¹Dept of Neurology and Agnes Ginges Center for Human Neurogenetics, Comprehensive Epilepsy Center, Hadassah Ein Kerem, Jerusalem, ²Faculty of Medicine , Hebrew University of Jerusalem, Jerusalem, Israel
- 15:40 Levetiracetam Therapeutic Drug Monitoring In Pregnancy
Noam Fallik¹, Ilia Trakhtenbroit², Firas Fahoum¹, **Lilach Goldstein**^{1,3}
¹Neurology, TLVMC, Tel Aviv, Israel; ²Neurology, Barzilai , Ashkelon, Israel; ³Comprehensive Epilepsy Center, Thomas Jefferson University Hospital, Philadelphia, USA

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WEDNESDAY, FEBRUARY 8, 2023 (Cont.)

14:30-17:10

SESSION III (cont.)

15:52

Perampanel as Precision Therapy in Rare Genetics Epilepsies

Andreea Nissenkorn¹, Gerhard Kluger², Suzanne Schubert-Bast³, Allan Bayat⁴, Marya Bobylova⁵, Paolo Bonanni⁶, Ceulemans Berten⁷, Antonietta Copola⁸, Carlo Di Bonaventura⁹, Martha Feucht¹⁰, Gali Heimer¹¹, Tally Sagie¹², Svetlana Kulikova¹³, Georgia Ramantani¹⁴, Paolo Ricciardelli¹⁵, Celina Von Stülpnagel¹⁶, Angelo Russo¹⁷

¹Pediatric Neurology, Wolfson , Hod Ha Sharon, Israel; ²Epilepsy Center, Schon Klinik, Vogtareuth, Germany; ³Pediatric Neurology, Frankfurt Universitiy Clinic, Frankfurt, Germany; ⁴Epilepsy Genetics, Filadelfia, Dianalund, Denmark; ⁵Pediatric Neurology, St Luka institute, Moscow, Russia; ⁶Epilepsy Center, Medea Institute, Treviso, Italy; ⁷Pediatric Neurology, Antwerp University, Antwerp, Belgium; ⁸Neuroscience, Federico II University, Naples, Italy; ⁹Neurology, Sapienza University, Rome, Italy; ¹⁰Epilepsy Center, Medical University, Vienna, Austria; ¹¹Pediatric Neurology, Sheba, Tel Ha Shomer, Israel; ¹²Pediatric Neurology, Wolfson , Holon, Israel; ¹³Neurology, Research Center, Minsk , Belarus; ¹⁴Pediatric Neurology, University Children Hospital , Zurich, Switzerland; ¹⁵Pediatric Neurology, Ravenna Hospital, Ravenna, Italy; ¹⁶Rehabilitation, Research Institute, Salzburg, Austria; ¹⁷Neuropsychiatry, IRCCS, Bologna, Italy

16:04

Cenobamate for the Treatment of Focal Epilepsy- A Single Center Real Life Experience

Itai Loushy^{1,2}, **Lilach Goldstein**^{2,1}, Kathryn Devlin³, Anna Volski¹, Elizabeth Fletman¹, Juan Luis¹, Alcala Zermeno¹, Louis Porreca¹, Michael R Sperling¹

¹Comprehensive Epilepsy Center, Thomas Jefferson University Hospital, Philadelphia, USA; ²Neurology, Tel Aviv Medical Center, Tel Aviv, Israel; ³Neuropsychology, Drexel University, Philadelphia, USA

16:16

Epilepsy Following Herpes Simplex Encephalitis - A Case Cohort Study

Nir Hersh^{1,2}, Haim Ben Zvi^{1,3}, Lilach Goldstein^{4,3}, Israel Steiner^{1,3}, Felix Benninger^{1,3}

¹Neurology, Rabin medical center Beilinson Hospital, Petah Tikva, ²Neurology, Sanz Medical Center, Laniado Hospital, Netanya, ³Sackler Faculty of Medicine, University of Tel Aviv, Tel Aviv, ⁴Neurology, Tel Aviv Sourasky Medical Center, Ichilov Hospital, Tel Aviv, Israel



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WEDNESDAY, FEBRUARY 8, 2023 (Cont.)

-
- 14:30-17:10** **SESSION III (cont.)**
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- 16:24 Drug Resistant Epilepsy Following Herpes Simplex Virus Encephalitis in Children
Leo Arkush¹, Shira Rabinowicz^{1,2}, Efrat Dayan¹, Omer Bar-Yosef^{1,2},
Gali Heimer^{1,2}, Michal Tzadok^{1,2}, Ben-Zeev Bruria^{1,2}
¹Pediatric Neurology, Safra Children's Hospital, Sheba Medical Center,
Ramat Gan, Israel; ²The Sackler Faculty of Medicine, Tel Aviv University,
Tel Aviv, Israel
- 16:32 The Effects of SARS-CoV-2 Infection and Vaccination on Disease
Course in Children with Epilepsy
Moran Nativ¹, Mohammad Kurd², Hiba Gaber², Dina Qaraen Saloani², Tal Benoliel³,
Tal Gilboa¹
¹Pediatric neurology unit, Hadassah Medical center and Faculty of Medicine, Hebrew
University of Jerusalem, ²Pediatric neurology unit, Hadassah Medical center, Jerusalem,
³Dept. of Neurology, Hadassah Medical center and Faculty of Medicine, Hebrew
University of Jerusalem, Israel
- 16:40 Epilepsy Prevalence and Treatment Gaps in Mambwe District, Zambia
Andrew Malunga¹, **Felix Benninger**², Stanley Zimba³, Eli Schwartz⁴,
Theodor Rüber⁵, Merav Shamir⁶, Alon Friedman^{7,8}
¹Mfuwe Clinic, Mfuwe, Mfuwe, Zambia; ²Neurology, Rabin Medical Center,
Petach Tikva, Israel; ³Hospital, Lusaka Teaching Hospital, Lusaka,
Zambia; ⁴Center for Geographic Medicine, Sheba Medical Center, Tel Hashomer,
Israel; ⁵Epileptology, University of Bonn, Bonn, Germany; ⁶Koret School of
Veterinary Medicine, Hebrew University, Jerusalem, Israel; ⁷Dept of Medical
Neuroscience, Dalhousie University, Halifax, Canada; ⁸Dept's of Physiology and
Cell Biology, Ben Gurion University, Beer Sheva, Israel
- 16:52 Monitoring of Chronic Brain Injury Patients with Amplitude-Integrated
Electroencephalography (aEEG)
Daniel Bancovsky^{1,2}, Nitay Fraenkel³, Patrice Weiss^{4,5}, Amihai Rigbi⁶, Keren Politi^{4,7}
¹The Helmsley Pediatric and Adolescent Rehabilitation Research Center, Alyn
Hospital, Jerusalem, ²Pediatric Neurology Unit, Edmond and Lily Safra Children's
Hospital, Sheba Medical Center, Ramat Gan, ³Respiratory Rehabilitation, Alyn
Hospital, Jerusalem, Israel; ⁴The Helmsley Pediatric & Adolescent Rehabilitation
Research Center, Alyn Hospital, Jerusalem, ⁵Occupational Therapy, University of
Haifa, Haifa, ⁶Faculty of Education, Beit Berl College, Kfar Saba, ⁷Head of
Neurology Service, Alyn Hospital, Jerusalem, Israel
- 17:00 Discussion and Best Paper Award
- 17:10 End of Day's Sessions