

ANNUAL CONFERENCE OF THE ISRAELI LEAGUE AGAINST EPILEPSY

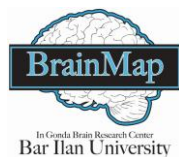


PROGRAM

24.1.2018

Daniel Hotel, Herzliya, Israel

Sponsored by:



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SCIENTIFIC PROGRAM



08:00 *Registration, coffee and visit the exhibition*

08:40 - 09:05

OPENING SESSION

08:40 WELCOME AND OPENING REMARKS

Dana Ekstein

President, Israeli League Against Epilepsy

08:50 ANNUAL REPORT OF THE ISRAELI LEAGUE AGAINST EPILEPSY

Meir Bialer

International Secretary and Treasurer

09:00 Eyal Israeli Epilepsy Association

09:05 - 10:05

SESSION I - PEDIATRIC EPILEPSY

Chairpersons: **Bruria Ben Zeev**, Israel
Tal Gilboa, Israel

09:05 *Invited Lecture*

MANAGEMENT OF EPILEPSY ASSOCIATED WITH TUBEROUS SCLEROSIS
COMPLEX: UPDATED CLINICAL RECOMMENDATIONS BASED ON
EUROPEAN CONSENSUS MEETING, ROME, SEP 2017

Michal Tzadok

Pediatric Neurology, Tel Hashomer, Ramat Gan, Israel

09:20 NOVEL WWOX MUTATIONS IN YEMENITE JEWS CAUSE EPILEPTIC
ENCEPHALOPATHY AND GLOBAL DEVELOPMENTAL DELAY

Hadas Meirson¹, Tally Lerman Sagie², Dorit Lev³, Yuval Shilon¹,
Ehud Banne⁴, Dina Marek-Yagel⁵, Annick Raas-Rothschild⁶,
Bruria Ben-Zeev⁷, Gali Heimer⁸

¹Pediatric Neurology Unit, Kaplan Medical Center, Rehovot, ²Metabolic
Neurogenetic Clinic, Wolfson Medical Center, Holon, ³Institute of Medical
Genetics, Wolfson Medical Center, Holon, ⁴Institute of Medical Genetics,
Kaplan Medical Center, Rehovot, ⁵Metabolic Diseases Unit, Safra Children
Hospital, Sheba Medical Center, Tel Hashomer, ⁶The Danek Gertner
Institute of Human Genetics, Sheba Medical Center, Tel Hashomer,
⁷Metabolic Diseases Unit, Sheba Medical Center, Tel Hashomer,
⁸Pediatric Neurology Unit, Sheba Medical Center, Tel Hashomer, Israel

09:35 THE ROLE OF NEURAL CIRCUITS RELATED TO COGNITIVE CONTROL IN
READING AMONG CHILDREN WITH EPILEPSY: AN FMRI STUDY

Dror Kraus¹, Tzipi Horowitz-Kraus^{2,3}

¹Neurology, Schneider's Hospital Medical Center, Petach Tiqua, Israel,
²Educational Neuroimaging Center, Technion, Haifa, Israel, ³Community
and General Pediatrics, Cincinnati Children's Hospital, Cincinnati, USA



09:05 - 10:05

SESSION I - PEDIATRIC EPILEPSY (cont.)

09:50 STEREO ELECTROENCEPHALOGRAPHY-GUIDED RADIOFREQUENCY THERMOCOAGULATION IN DRUG-RESISTANT FOCAL EPILEPSY: A NEW PEDIATRIC TECHNIQUE TO GUIDE THE SURGERY

Mikael Levy, Mathild Chipaux, Sarah Ferrand-Sorbets, Martine Fohlen, Nathalie Dorison, Delphine Taussig, Georg Dorfmueller
Neurosurgery, Fondation Rothschild, Paris, France

10:05 *Short break*

10:25 - 11:30

SESSION II - ADULT EPILEPSY

Chairpersons: **Anda Eilam**, Israel
Firas Fahoum, Israel

10:25 *Invited Guest Lecture - Sponsored by Neopharm Israel*

TO WHAT EXTENT IS EPILEPSY REALLY 'GENETIC'

Simon Shorvon

Clinical Neurology, Institute of Neurology (ION), University College London (UCL); National Hospital for Neurology and Neurosurgery (NHNN), London, UK

11:00 DRUG RESISTANT EPILEPSY IN OLDER ADULTS

Chen Buxbaum¹, Yitzhak Schiller^{1,2,3}, Luvov Rapoport², Moshe Herskovitz^{1,2,3}

¹Dept. of Neurology, Rambam Health Care Center, Haifa, ²EEG and Epilepsy Service, Rambam Health Care Center, Haifa, ³Faculty of Medicine, Technion, Institute of Technology, Haifa, Israel

11:15 EXPERIENTIAL PHENOMENA ELICITED BY ELECTRICAL BRAIN STIMULATION IN PATIENTS WITH EPILEPSY

Michal Michele Andelman¹, Tomer Gazit², Fani Andelman³, Svetlana Kipervasser^{1,4}, Uri Kramer^{1,5}, Miri Neufeld^{1,4}, Itzhak Fried^{1,3}, Firas Fahoum^{1,4}

¹Sackler School of Medicine, Tel Aviv University, Tel Aviv, ²Functional Brain Center, Tel Aviv Medical Center, Tel Aviv, ³Functional Neurosurgery Unit, Tel Aviv Medical Center, Tel Aviv, ⁴Epilepsy and EEG Unit, Tel Aviv Medical Center, Tel Aviv, ⁵Pediatric Epilepsy Unit, Tel Aviv Medical Center, Tel Aviv, Israel

11:30 *Coffee, exhibition and poster viewing - parallel e-poster sessions at presenting screens (11:35-11:55)*



Poster session I - Clinical

Moderators: **Shmuel Appel**, Israel
Ilan Linder, Israel

Poster session II - Basic science

Moderators: **Mordekhay Medvedovsky**, Israel
Dror Kraus, Israel



12:05 - 13:30

SESSION III - BASIC SCIENCE


Chairpersons: **Ilan Blatt**, Israel
Revital Gandelman-Marton, Israel

- 12:05 SEIZURE-INDUCED BBB DYSFUNCTION: PHENOMENA, UNDERLYING MECHANISMS AND SUGGESTED THERAPEUTIC APPROACHES
Udi Vazana¹, Ronel Veksler¹, Gabriel Pell², Ofer Prager¹, Michael Fassler¹, Alon Friedman^{1,3}
¹Physiology and Cell Biology, Ben Gurion University of the Negev, Beer Sheva, Israel, ²Research and Development, Brainsway Ltd., Jerusalem, Israel, ³Dept. of Medical Neuroscience, Dalhousie University, Halifax, Nova Scotia, Canada
- 12:20 MIND THE GATE: ADVERSE EFFECTS OF VALPROIC ACID ON THE PLACENTAL BARRIER
Miriam Rubinchik-Stern¹, Miriam Shmuel¹, Michal Kovo², Sara Eyal¹
¹Institute for Drug Research, School of Pharmacy, The Hebrew University of Jerusalem, Jerusalem, ²Dept. of Obstetrics and Gynecology, Wolfson Medical Center, Holon, Israel
- 12:35 IMPAIRED NEUROVASCULAR INTERACTIONS DURING RECURRENT SEIZURES
Ofer Prager¹, Lyna Solomon-Kamintsky^{1,2}, Luisa Austin Hasam Henderson³, Karl Schoknecht³, Vera Wuntke³, Ismini Papageorgiou³, Jutta Swolinsky³, Valeria Muoio³, Guy Bar-Klein⁴, Udi Vazana¹, Uwe Heinemann³, Richard Kovács³, Alon Friedman^{1,2}
¹Dept. of Physiology and Cell Biology, Cognitive and Brain Sciences, Ben Gurion University of the Negev, Beer Sheva, Israel, ²Dept. of Medical Neuroscience, Faculty of Medicine, Dalhousie University, Halifax, Canada, ³Institute for Neurophysiology, and Neuroscience Research Center, Charité University Medicine, Berlin, Germany, ⁴Mc Kusick Nathans Institute of Genetic Medicine, and Howard Hughes Medical Institute, Johns Hopkins University School of Medicine, Baltimore, MD, USA
- 12:50 THE EFFECT OF VPA ON CEREBRAL UPTAKE CARRIERS - A NOVEL PATHWAY OF CEREBRAL NUTRIENT HOMEOSTASIS
Aniv Mann¹, Mony Benifla², Sarah Billington³, Jashvant Unadkat³, Hadas Han¹, Dana Blatch⁴, Tamir Ben-Hur⁴, Odeya Bennet⁵, Tal Gilboa⁵, Dana Ekstein^{*4}, Sara Eyal^{*1}
¹Institute for Drug Research, School of Pharmacy, Hebrew University of Jerusalem, Jerusalem, Israel, ²Pediatric Neurosurgery Unit, Rambam Medical Center, Haifa, Israel, ³Dept. of Pharmaceutics, School of Pharmacy, University of Washington, Seattle, USA, ⁴Dept. of Neurology, Agnes Ginges Center for Human Neurogenetics, Hadassah Hebrew University Medical Center, Jerusalem, Israel, ⁵Pediatric Neurology Dept., Hadassah Hebrew University Medical Center, Jerusalem, Israel
*Prof. Sara Eyal and Dr. Dana Ekstein are both corresponding authors



12:05 - 13:30

SESSION III - BASIC SCIENCE (cont.)

- 13:05 ELECTROCORTICOGRAPHIC ALTERATIONS AS A NOVEL PREDICTIVE BIOMARKER OF POST INJURY EPILEPSY IN FIVE ANIMAL MODELS
Dan Z Milikovsky¹, Itai Weissberg¹, Lyn Kamintsky^{1,2}, Kristina Lippmann³, Osnat Schefenbauer¹, Federica Frigerio⁴, Massimo Rizzi⁴, Liron Sheintouch¹, Daniel Zelig¹, Jonathan Ofer¹, Annamaria Vezzani⁴, Alon Friedman²
¹Depts. of Physiology and Cell Biology, Cognitive and Brain Sciences, Zlotowski Center for Neuroscience, Ben Gurion University of the Negev, Beer Sheva, Israel, ²Dept. of Medical Neuroscience, Dalhousie University, Halifax, Ns, Canada, ³Institute of Neurophysiology, Charité - University Medicine Berlin, Berlin, Germany, ⁴Dept. of Neuroscience, Experimental Neurology, Irccs Istituto Di Recerche Farmacologiche "Mario Negri", Milan, Italy
- 13:20 AWARD PRESENTATION TO PROF. ZAMIR SHORER
Mony Benifla
Pediatric Neurosurgery Unit, Rambam Medical Center, Haifa, Israel
- 13:30 *Lunch, poster viewing and visit the exhibition* 
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14:30 - 16:30

SESSION V - STATUS EPILEPTICUS
Sponsored by Neopharm and Megapharm

Chairpersons: **Moshe Herskovitz**, Israel
Iris Noyman, Israel

- 14:30 BEST PAPER AWARD
- 14:35 **Invited Guest Lecture**
ADVANCES IN THE ACUTE TREATMENT OF SEIZURES AND OF STATUS EPILEPTICUS
Simon Shorvon
Clinical Neurology, Institute of Neurology (ION), University College London (UCL); National Hospital for Neurology and Neurosurgery (NHNN), London, UK
- 15:10 **Invited Guest Lecture**
CRITICAL CARE EEG MONITORING FOR SEIZURES AND STATUS EPILEPTICUS: PRACTICALITIES AND PITFALLS
Cecil Hahn
Dept. of Pediatrics, University of Toronto, Toronto, Canada



SCIENTIFIC PROGRAM (cont.)

14:30 - 16:30

SESSION V - STATUS EPILEPTICUS (cont.)

CASE PRESENTATIONS (presented in English, to be discussed with the guest speakers and the audience)

15:45 Case I - **Iris Noyman**, Israel

16:00 Case II - **Dana Ekstein**, Israel

16:15 Case III - **Moshe Herskovitz**, Israel



E-POSTER SESSION I - CLINICAL

1. ESTIMATION OF SEIZURES PREVALENCE IN ISCHEMIC STROKES AFTER THROMBOLYTIC THERAPY
Anda Eilam¹, Daphna Nesslerot², Muntaser Na'amnah¹, Ronit Gilad^{1,3}
¹Dept. of Neurology, Kaplan Medical Center, Rehovot, ²Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, ³Neurology, Hebrew University of Jerusalem, Jerusalem, Israel
2. CLINICAL PHENOTYPES OF SCN2A GENE MUTATION. TWO MUTATION CASE REPORTS AND LITERATURE REVIEW
Veronika Chernuha, Uri Kramer, Aviva Fattal-Valevski
Pediatric Neurology Dept., Dana Children's Hospital, Tel Aviv, Israel
3. ABORTIONS IN WOMEN WITH EPILEPSY-A RETROSPECTIVE SINGLE CENTER STUDY
Lilach Goldstein, Mohamad Atamna, Noam Amiel, Felix Benniger
Dept. of Neurology, Rabin Medical Center, Campus Beilinson, Petach Tikva, Israel
4. SAFETY AND EFFICACY OF PERAMPANEL (FYCOMPAN) IN AN ISRAELI INTRACTABLE PARTIAL EPILEPSY COHORT
Hadassa Goldberg-Stern^{1,2}, **Rony Cohen**³, Ido Nechushtan^{1,2}
¹Pediatric Neurology and Epilepsy Center, Schneider Children's Medical Center of Israel, Petach Tikva, ²Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, ³Dept. of Pediatric Neurology and Epilepsy, Schneider Children's Medical Center of Israel, Petach Tikva, Israel
5. THE EFFECT OF EXPOSURE OF CIVIL POPULATION TO MILITARY STRESS ON DISEASE COURSE OF PATIENTS WITH EPILEPSY-THE LESSON LEARNED IN THE LAST OPERATION IN GAZA ("TSUK EITAN")
Galina Kotliar, Shmuel Appel
Dept. of Neurology, Barzilai Medical Center, Ashkelon, Israel



E- POSTER SESSION II - BASIC SCIENCE

6. SOURCE LOCALIZATION USING A VIRTUAL MEG HELMET:
A SIMULATION STUDY
Oshrit Arviv¹, Yuval Harpaz¹, Tomer Gazit², **Mordekhay Medvedovsky**²
¹The Leslie and Susan Gonda (Goldschmied) Multidisciplinary Brain Research Center, Electromagnetic Brain Imaging Unit, Bar Ilan University, Ramat Gan, ²The Center for Brain Functions, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel

7. SINGLE NEURON ACTIVITY PRECEDES ICTAL EEG CHANGES IN EPILEPTIC FOCUS
Noa Cohen^{1,2}, Tomer Gazit¹, Talma Hendler^{1,2}, Itzhak Fried^{2,3}, Firas Fahoum^{2,4}
¹Tel Aviv Center for Brain Functions, Tel Aviv Sourasky Medical Center, Tel Aviv, ²Sackler School of Medicine, Tel Aviv University, Tel Aviv, ³Functional Neurosurgery Unit, Tel Aviv Sourasky Medical Center, Tel Aviv, ⁴Epilepsy and EEG Unit, Tel Aviv Sourasky Medical Center, Tel Aviv, Israel

8. A WEARABLE SEIZURE PREDICTION AND DETECTION SYSTEM FOR HOME USE
Michal Balberg^{1,2}, **Irena Girshovitz**¹, Rebecca Zehavi Shevetz¹, Nir Kalkstein¹, Yaakov Metzger¹, Efrat Rabstein³, Firas Fahoum³, Dana Ekstein⁴
¹Research, Medical Research Ltd., Kfar Malal, ²Engineering, Holon Institute of Technology, Holon, ³Epilepsy and EEG Unit, Sourasky Medical Center, Tel Aviv, ⁴Epilepsy Center, Hadassah Medical Center, Jerusalem, Israel

9. ORGANOPHOSPHATE-INDUCED STATUS EPILEPTICUS: EARLY TREATMENT AND PREVENTION OF BRAIN DAMAGE
Evyatar Swissa¹, Guy Bar-Klein², Lyna Solomon Kamintsky³, Ofer Prager¹, Netta Elazary¹, Arik Eisenkraft⁴, Yossi Rosman⁴, hai Shrot⁴, Alon Friedman³
¹Depts. of Brain and Cognitive Sciences, Physiology and Cell Biology, Zlotowski Center for Neuroscience, Ben Gurion University of the Negev, Beer Sheva, Israel, ²Mc Kusick Nathans Institute of Genetic Medicine, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA, ³Dept. of Medical Neuroscience, Dalhousie University, Halifax, Nova Scotia, Canada, ⁴Medical Corps Headquarters, Israel Defense Forces, Tel Aviv, Israel

10. EFFECTS OF VALPROIC ACID ON CHOLINE TRANSPORTERS IN PLACENTAL BEWO CELLS
Sonia Moushaev, Miriam Shmuel, Miriam Rubinchik-Stern, Nino Tetro, Sara Eyal
Institute for Drug Research, School of Pharmacy, The Hebrew University of Jerusalem, Jerusalem, Israel