

**ISRAELI SOCIETY FOR VISION AND EYE RESEARCH**  
**The 37th Annual Meeting, March 15-16, 2017**  
**Program at a glance**

**Wednesday, March 15, 2017**

<b>Session</b>	<b>Location</b>	<b>Time</b>	<b>Page</b>
Coffee & Exhibition	Exhibition Hall	08:00 – 08:55	
Opening remarks	Rayman Center	08:55 – 09:00	
Therapy	Rayman Center	09:00 – 10:00	
Cell biology	Rayman Center	10:00 – 11:00	
Coffee & Exhibition	Exhibition Hall	11:00 – 12:00	
Guest lecture- Michal Schwartz	Rayman Center	12:00 – 13:00	
Lunch break	Dining Room	13:00 – 14:00	
AMD- functional	Rayman Center	14:00 – 14:45	
Option 1: Retina	Rayman Center	14:45 – 16:00	
Option 2: Cornea	Rayman East	14:45 – 16:00	
Coffee & Exhibition	Exhibition Hall	16:00– 16:30	
Genetics	Rayman Center	16:30 – 17:05	

**Thursday, March 16, 2017**

<b>Session</b>	<b>Location</b>	<b>Time</b>	<b>Page</b>
Coffee & Exhibition	Exhibition Hall	08:00 – 08:50	
Animal models	Rayman Center	08:50 – 09:45	
Retinal genetics 1	Rayman Center	09:45 – 10:30	
Coffee & Exhibition	Exhibition Hall	10:30 – 11:15	
Retinal Genetics 2	Rayman Center	11:15 – 12:00	
Awards & ISVER update	Rayman Center	12:00 – 12:30	
Guest lecture- Alon Wolf	Rayman Center	12:30 – 13:00	
Lunch break	Dining Room	13:00 – 14:00	
Guest lecture- Alon Wolf	Rayman Center	14:00 – 14:30	
Option 1: Glaucoma	Rayman Center	14:30 - 15:30	
Option 2: Visual function	Rayman East	14:30 - 15:30	
Coffee & Exhibition	Exhibition Hall	15:30 - 16:00	
Oncology	Rayman Center	16:00 – 16:30	
AMD	Rayman Center	16:30 – 17:00	
Concluding remarks	Rayman Center	17:00 – 17:05	

## Wednesday, March 15<sup>th</sup> 2017

**Coffee and Exhibition** 8:00 - 8:55

**Opening remarks: Dror Sharon** 8:55 - 9:00

**Therapy** 9:00 - 10:00

Moderators: Yossi Mandel and Ron Ofri

**1** **Differentiation of Human Embryonic Stem cells into Photoreceptor Precursors – In-Vitro and In-Vivo Study**

9:00

Amos Markus (1), Yoav Chemla (1), Astar Shamul (1), Nairouz Farah (1), Ronald S. Goldstein (1), Yossi Mandel (1,2)  
(1) Mina and Everard Goodman Faculty of Life Sciences, (2) Optometry and Visual Science, Faculty of Life Science. Bar-Ilan University, Ramat-Gan

**2** **Incorporation and Survival of Retinal Progenitors Derived from Human Embryonic Stem Cells (hESCs) in Rodent Eyes**

9:07

AC Hamzah Aweidah (1), Alex Obolensky (1), Ayala Ejzenberg (1), Masha Idelson (2), H Khaner (2), Benjamin Reubinoff (2), Eyal Banin (1)  
(1) Department of Ophthalmology and (2) Gene Therapy Institute, Hadassah-Hebrew University Medical Center, Jerusalem

**3** **Retinal Transfection Efficacy of a Capsid Mutant Adeno-Associated Virus [AAV2-quad(Y-F)+T491V] Following Subretinal and Intravitreal Injection in Sheep**

9:14

AC

Maya Ross (1), Eyal Banin (2), Alexey Obolensky (2), Raaya Ezra-Elia (1), Hen Honig (3), Esther Yamin (2), Alexander Rosov (3), Edward Averbukh (2), William W Hauswirth (4), Elisha Gootwine (3), Ron Ofri (1)  
(1) Koret School of Veterinary Medicine, Hebrew University of Jerusalem, Rehovot, (2) Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem, (3) ARO, The Volcani Center, Rishon LeZion, (4) Department of Ophthalmology, University of Florida, Gainesville, FL, USA

- 4**  
9:21  
AC  
**Mobility and Tropism of Adeno - Associated Virus (AAV) Injected Subretinally or Intravitreally in Mice**  
Raaya Ezra-Elia (1), Alexey Obolensky (2), Ayala Eijzenberg (2), Dror Sharon (2), Eyal Banin (2), Ron Ofri (1)  
(1) Koret School of Veterinary Medicine, Hebrew University of Jerusalem, Rehovot, (2) Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem
- 5**  
9:28  
**A Novel Minimally Invasive Adjustable-Depth Blunt Injector for Delivery of Therapeutics into the Extravascular Spaces of the Choroid**  
Ygal Rotenstreich (1,2), Adi Tzameret (1,2), Sapir E. Kalish (1,2), Ettl Bubis (1,2), Michael Belkin (1,2), Iris Moroz (1), Mordechai Rosner (1,2), Itay Levy (3), Shlomo Margel (3), Ifat Sher (1)  
(1) Goldschleger Eye Institute, Sheba Medical Center, Tel-Hashomer, (2) Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, (3) Department of Chemistry, Bar-Ilan Institute of Nanotechnology and Advanced Materials, Ramat-Gan
- 6**  
9:35  
**Active Sensing for Enhancement of Reading Capabilities in Prosthetic Vision**  
Chen Abraham (1), Nairouz Farah (2), Yuval Harpaz (3), Zeev Zalevsky (1), Yossi Mandel (2)  
(1) Faculty of Engineering and the Bar-Ilan Institute of Nanotechnology & Advanced Materials, (2) Faculty of Life Sciences, Optometry Track and Bar Ilan Institute for nanotechnology and Advanced Materials (BINA), (3) Gonda Brain Research Center, Bar-Ilan University
- 7**  
9:42  
Ofra Benny  
Institute of Drug Research, School of Pharmacy, Faculty of Medicine, The Hebrew University of Jerusalem
- 9:49  
**Discussion**

**Cell biology**

10:00 - 11:00

Moderators: Ruth Ashery-Padan and Tami Livnat

- 8**      **Protective Effect of Intravitreal Administration of Exosomes derived from Mesenchymal Stem Cells on Retinal Ischemia**  
10:00  
AC      Elad Moisseiev (1), Johnathon Anderson (2), Sharon Oltjen (2), Mayank Goswami (2), Robert Zawadzki (2), Jan Nolta (2), Susanna Park (2)  
(1) Tel Aviv Medical Center, Tel Aviv, (2) UC Davis, Sacramento, CA, USA
- 9**      **Characterization of Human Nonpigmented Ciliary Epithelium-Derived Exosomal miRNAs by Microarray Analysis**  
10:07  
AC      Natalie Lerner, Elie Beit-Yannai, Sofia Schreiber-Avissar  
Ben-Gurion University of the Negev, Beer-Sheva
- 10**      **Bi-Modal Effect of Exosomes Dose Response in NPCE-TM communication in the Ocular Drainage System**  
10:14  
AC      Saray Tabak, Sofia Schreiber-Avissar, Elie Beit-Yannai  
Ben-Gurion University of the Negev, Beer-Sheva
- 11**      **Possible Involvement of NETosis in Infectious and Inflammatory Processes in the Eye; Evidence from a Small Cohort of Patients**  
10:21  
AC      Tilda Barliya (1), Rima Dardik (2), Yael Nisgav (1), Mor Dachbash (1), Rita Ehrlich (3,4), Dov Weinberger (1,3,4), Tami Livnat (1,2,4)  
(1) Laboratory of Eye research Felsenstein Medical Research Center (FMRC), Rabin Medical Center, Petah Tikva, (2) The Israeli National Hemophilia Center, Sheba Medical Center, Tel Hashomer, (3) Division of Ophthalmology, Rabin Medical Center- Beilinson campus, Petah Tikva, (4) Sackler School of Medicine, Tel-Aviv University
- 12**      **Transcription Factors of the RPE Play a Role in Choroid Vascularization**  
10:28  
Yamit Cohen-Tayar (1), Hadar Cohen (1), Ran Elkon (1), Pablo Blinder (1), Maria Idelson (2), Benjamin Reubinoff (2), Shalev Itzkovitz (3), Ruth Ashery-Padan (1)  
(1) Tel-Aviv University, (2) Hadassah Medical Center, Jerusalem, (3) Weizmann Institute of Science, Rehovot

**13 The Roles of Sip1 in Retinogenesis**  
10:35 Yotam Menuchin-Lasowski (1), Pazit Oren-Giladi (1), Raaya Ezra-Elia (2), Ron Ofri (2), Ruth Ashery-Padan (1,3)  
(1) Sackler School of Medicine, Tel-Aviv University, Tel-Aviv, (2) Koret School of Veterinary Medicine, Hebrew University of Jerusalem, Rehovot, (3) Sagol School of Neuroscience, Tel-Aviv University, Tel Aviv

**14 Roles for MicroRNAs in Retinal Pigmented Epithelium Development and Function**  
10:42 Benjamin Amram (1,2), Ohana Reut (1), Shaul Raviv (1), Ariel Rinon (1), Ruth Ashery-Padan (1,2)  
AC (1) Department of Human Molecular Genetics & Biochemistry, Tel-Aviv University, Tel-Aviv, (2) Sagol School of Neuroscience, Tel-Aviv University, Tel-Aviv

10:49 **Discussion**

**Coffee and exhibition** 11:00 - 12:00

**Guest lecture- Prof. Michal Schwartz** 12:00 - 13:00  
Department of Neurobiology, Weizmann Institute of Science  
**Harnessing systemic immunity to combat neurodegenerative diseases**

**Lunch break** 13:00 - 14:00

**AMD- functional studies** 14:00 - 14:45

Moderators: Anat Lowenstein and Zeev Dvashi

**15 Proteome of Aqueous Humor from Patients with Age-related Macular Degeneration**  
14:00 Batya Rinsky, Gala Beykin, Samer Khateb, Liran Tiosano, Shira Hagbi-Levi, Sarah Hayoun, Michelle Grunin, Itay Chowers  
AC Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem

- 16**  
14:07  
AC  
**Characterizing the Involvement of Macrophages in the Pathogenesis of Atrophic Age Macular Degeneration**  
Sarah Hayoun, Batya Rinsky, Shira Hagbi-Levi, Michelle Grunin, Itay Chowers  
Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem
- 17**  
14:14  
AC  
**Pro-Angiogenic Mechanism of Activated Macrophages from Patients with Age-related Macular Degeneration**  
Shira Hagbi-Levi, Michelle Grunin, Sarah Elbaz-Hayoun, Batya Rinsky, Itay Chowers  
Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem
- 18**  
14:21  
AC  
**The Contribution of Patient's Derived Factors, Disease State, and Microenvironment to Macrophage Function in the Context of Age-Related Macular Degeneration (AMD)**  
Shira Hagbi-Levi (1), Shai Carmi (2)\*, Itay Chowers (1)\*  
\* These two senior authors contributed equally to the work  
(1) Department of Ophthalmology and (2) Braun School of Public Health and Community Medicine, Hadassah-Hebrew University Medical Center, Jerusalem
- 19**  
14:28  
AC  
**New Insight on the Autophagy Process as Key Therapeutic Target in Treating Dry Age Related Macular Denegation**  
Lior Shuster (1), Keren ben Yaakov (1), Shalom Lerrer (1), Zeev Dvashi (1), Ayala Pollack (1), Arie S Solomon (2)  
(1) Kaplan Medical Center, Rehovot, affiliated with Hadassah-Hebrew University of Jerusalem, Rehovot, Tel Hasomer, Ramat Gan, (2) Goldschleger Eye Research Institute, Sheba Medical Center, Tel Hashomer, Tel-Aviv University, Ramat-Aviv, Tel-Aviv
- 14:35  
**Discussion**

**Retina** (at Rayman Center)

14:45 - 16:00

Moderators: Eyal Banin and Ygal Rotenstreich

- 20**      **Visual Outcome of Cystoid Macular Edema in Pediatric Non-Infectious Uveitis**  
14:45  
AC      Maya Eiger-Moscovich (1), Oren Tomkins (2), Amer Radgonde (3), Zohar Habet-Wilner (4,6), Ahmed Kasb (2), Ronit Friling (5,6), Michal Kramer (1,6)  
(1) Department of Ophthalmology, Rabin Medical Center, Petach Tikva, (2) Department of Ophthalmology, University College London, London, UK, (3) Department of Ophthalmology, Hadassah University Hospital, Hadassah medical School, Jerusalem, (4) Department of Ophthalmology, Tel Aviv medical center, Tel Aviv, (5) Pediatric Ophthalmology Unit, Schneider Children's Medical Center of Israel, Petach Tikva, (6) Sackler School of Medicine, Tel Aviv University, Tel Aviv
- 21**      **Adipose Tissue Derived Mesenchymal Stem Cells Differentiate Towards RPE and Rescue Apoptotic RPE under Oxidative Stress, in Vitro and in Vivo**  
14:52  
AC      Aya Barzelay, Shira Wheisthal, Anat Nitzan, Mark Krauthammer, Moshe Ben – Hemo, Anat Loewenstein, Adiel Barak  
Division of Ophthalmology, Tel Aviv medical center, Tel Aviv university
- 22**      **ERG Oscillatory Potentials Frequency Domain Characteristics in Diabetic Retinopathy and CSNB Patients**  
14:59  
Boris Rosin (1, 2), Maya Nitecki (1), Inbar Erdinest (1), Sarah Liss (1), Eyal Banin (1, 2)  
(1) Department of Ophthalmology, Hadassah Hebrew University Medical Center, (2) Department of Medical Neurobiology (Physiology), Hadassah-Hebrew University School of Medicine, Jerusalem

- 23**  
15:06  
**Synthetic 9-cis-beta-carotene Inhibits Photoreceptor Degeneration in Retinal Explants of rpe65rd12 Mouse Model of Retinoid Cycle Defect**  
Ifat Sher (1), Victoria Edelshtain (1,2), Adi Tzameret (1,2), Michael Ioffe (3), Alon Sayer (3), Ludmila buzhansky (3), Ehud Gazit (3), Ygal Rotenstreich (1,2)  
(1) Goldschleger Eye Institute, Sheba Medical Center, Tel-Hashomer, (2) Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, (3) The Department of Molecular Microbiology and Biotechnology George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv
- 24**  
15:13  
AC  
**Clinical Characterization of Individuals with Achromatopsia Caused by Mutations in the CNGA3 Gene**  
Alaa Altalishi (1,2), Tareq Jaouni (1), Devorah Marks Ohana (1), Shelly Stika (1), Moria Ben-Oliel (1), Inbar Erdinest (1), Gal Shoef (1), Alexey Obolensky (1), Dror Sharon (1), Eyal Banin (1)  
(1) Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem, (2) St. John Eye Hospital, Jerusalem
- 25**  
15:20  
AC  
**Retinitis Pigmentosa - Associated Cystoid Macular Edema as Inflammatory Optical Density Characteristics**  
Tomer Batash (1), Hadas Newman (1), Adiel Barak (1), Shiri Zayit-Soudry (2), Eran Pras (3), Eyal Banin (4), Michael Politis (4), Anat Loewenstein (1), and Meira Neudorfer (1)  
(1) Tel Aviv Sourasky Medical Center, Tel Aviv, (2) Rambam Health Care Campus, Haifa, (3) Assaf Harofeh Medical Center, Zrifin, (4) Hadassah Medical Center, Jerusalem.
- 26**  
15:27  
AC  
**Purification and Characterization of Human Dehydrodolychil Diphosphate synthase (DHDDS) Overexpressed in *E. Coli*: Implications for its Retinitis Pigmentosa-Causing Mutations**  
Moshe Giladi (1,2), Ilan Edri (1), Michal Goldenberg (1), Hadas Newman (1,2), Roi Strulovich (1), Yoni Haitin (1), Daniel Khananshvili (1), Anat Loewenstein (1,2)  
(1) Sackler Faculty of Medicine, Tel Aviv University, (2) Tel Aviv Sourasky Medical Center



- 27** **Multimodal *In-vivo* High Resolution Imaging of Gold Nanoparticle Labeled Photoreceptor Precursors**  
:1534  
AC Yoav Chemla (1), Oshra Betzer (2), Amos Markus (1), Astar Shamul (1), Menachem Motiei (2), Nairouz Farah (1), Rachela Popovtzer (2), Yossi Mandel (1)  
(1) Faculty of life Sciences, Optometry Track and Bar-Ilan Institute for nanotechnology and Advanced Materials (BINA), Bar-Ilan University, Ramat-Gan, (2) Faculty of Engineering and the Institute of Nanotechnology and Advanced Materials, Bar-Ilan University, Ramat Gan
- 15:41 **Discussion**

**Cornea (at Rayman East)**

14:45 - 16:00

Moderators: Or Kaiserman and Abraham Solomon

- 28** **Stiffening of Posterior Rabbit Sclera using Bacteriochlorophyll Derivative (WST11) and Near Infrared Light (NIR) Through the Cornea**  
14:45  
Alexandra Goz (1,2), Jurriaan Brekelmans (3), Alexander Brandis (1), Daniel Wagner (4), Xiaomeng Sui (4), Avigdor Scherz (1), Arie Marcovich (1,2)  
(1) Departments of Plant Sciences, Weizmann Institute of Science, (2) Department of Ophthalmology, Kaplan Medical Center, Rehovot, (3) University Eye Clinic Maastricht, Maastricht, The Netherlands, (4) Department of Materials and Interfaces, Weizmann Institute of Science
- 29** **Rho-Associated Kinase Inhibitor Decreases Human Corneal Endothelial Cell Apoptosis**  
14:52  
AC Asaf Achiron (1,2), Anna Feldman (2,3), Lily Karmona (1,2), Haggay Avizemer (1,2), Elisha Bartov (1,2), Zvia Burgansky (1,2), Vicktoria Vishnevskia-Dai (2,4)  
(1) Department of Ophthalmology, Edith Wolfson Medical Center, Holon, (2) Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, (3) The Multiple Sclerosis Center, Sheba Medical Center, Tel-Hashomer, (4) The Goldschleger eye institute, Sheba Medical Center, Tel-Hashomer
- 30** **Corneal Stem Cell Niche and Dynamics in Health and Disease**  
14:59  
Ruby Shalom-Feuerstein  
Faculty of Medicine, Technion – Israel Institute of Technology, Haifa

- 31 The effect of Estrogen and Progesterone on Porcine Corneal Biomechanical Properties**  
15:06  
AC  
Eyal Walter (1), Arie Marcovich (2,3), Joseph Levy (4), Xiaomeng Sui (5), Daniel Wagner (5), Boris Knyazer (1)  
(1) Department of Ophthalmology, Soroka University Medical Center, Ben-Gurion University of the Negev, Beer-Sheva, (2) Department of Ophthalmology, Kaplan Medical Center, Rehovot, (3) Department of Plant and Environmental Sciences, The Weizmann Institute of Science, Rehovot, (4) Faculty of Health Science, Department of Clinical Biochemistry, Ben-Gurion University of the Negev, Beer-Sheva, (5) Department of Materials and Interfaces, The Weizmann Institute of Science, Rehovot
- 32 Long-Term Result of Corneal Cross-Linking by WST-D and Near Infra-Red (NIR) Light: biomechanical Results and Histologic Evaluation, 1, 4 and 8 Months After Treatment**  
15:13  
AC  
Jurriaan Brekelmans (1,3), Alexandra Goz (2,3), Mor Dickman (1), Alexander Brandis (4), Xiaomeng Sui (5), Daniel Wagner (5), Rudy Nuijts (1), Avigdor Scherz (3), Arie Marcovich (2,3)  
(1) University Eye Clinic Maastricht, Maastricht, the Netherlands, (2) Department of Ophthalmology, Kaplan Medical Center, Rehovot, Departments of (3) Plant and Environmental Science, (4) Biological Services, and (5) Materials and Interfaces, Weizmann Institute of Science, Rehovot
- 33 Corneal Cross-Linking in Patients Younger Than 18 Years Old with Progressive Keratoconus: Up to 7 Years of Follow-Up Results**  
15:20  
AC  
Lior Or, Assaf Rozenberg, Adi Abulafia, Isaac Avni, David Zadok  
Department of Ophthalmology, Assaf Harofeh Medical Center, Zerifin
- 34 The Efficacy of Vascular Endothelial Growth Factor-Trap (VEGF-trap) compared to Steroids for the Treatment of Corneal Neovascularization**  
15:27  
AC  
Maya Eiger-Moscovich (1), Eitan Livny (1), Ruti Sella (1), Orly Gal-Or (1), Irit Bahar (1,2)  
(1) Department of Ophthalmology, Rabin Medical Center, Petah Tikva, (2) Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv

- 35 Treatment of Soft Tissue Expansion and Exophthalmos in Inactive thyroid Eye Disease Patients using drops of Prostaglandin Analogues**  
15:34  
AC Maya Eiger-Moscovich (1), Hadas Kalish (1,2), Inbal Avisar (1)  
(1) Department of Ophthalmology, Rabin Medical Center, Petah Tikva, (2) Sackler Faculty of Medicine, Tel-Aviv University, Tel-Aviv
- 36 Cytokine Profile, Environmental and Infectious Exposures of Patients with Dry Eye Syndrome, Sjogren's Syndrome and B-cell non-Hodgkin Lymphoma**  
15:41  
AC Hadas Ben-Eli (1,2), Abraham Solomon (1), Martina Willhauck-Fleckenstein (3), Michael Pawlita (3), Geffen Kleinstern (2), Rania Abu Seir (4), Arava Kedar-Tirosh (2), Eldad Ben Chetrit (5), Dror Mevorach (6), Doron Aframian (7) and Ora Paltiel (2,4)  
(1) Department of Ophthalmology, (2) Braun School of Public Health, Hadassah-Hebrew University, (3) German Cancer Research Center, Heidelberg, Germany, (4) Department of Hematology, (5) Unit of Rheumatology, (6) Department of Internal Medicine and (7) Department of Oral Medicine, Hadassah Medical Center, Jerusalem
- 37 Risk Factors Predicting Steroid Induced Ocular Hypertension Following Photorefractive Keratectomy**  
15:48  
AC (1) Yumna Busool, (1) Michael Mimouni, (1) Igor Vainer, (3) Tzahi Sela, (3) Gur Munzer, (2,3), Igor Kaiserman (2)  
(1) Department of Ophthalmology, Rambam Health Care Campus, Haifa, (2) Department of Ophthalmology, Barzilai Medical Center, Ashkelon and the Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer Sheba (3), Care-Vision Laser Centers, Tel-Aviv
- 15:55 **Discussion**

**Coffee and exhibition**

16:00 - 16:30

**Genetics**

16:30 - 17:05

Moderators: Eran Pras and Libe Gradstein

**38 Polymorphism in Cytokine-Related Genes in Dry Eye Syndrome and Sjogren's Syndrome' Patients**

16:30

AC

Hadas Ben-Eli (1,2), Nir Gomel (3), Rania Abu Seir (4), Riki Geffen Perlman (4), Eldad Ben Chetrit (5), Dror Mevorach (6), Kleinstern (2), Doron Aframian (7), Ora Paltiel (2,4), Abraham Solomon (1)  
(1) Department of Ophthalmology, (2) Braun School of Public Health and Community Medicine, (3) School of Medicine, (4) Department of Hematology, (5) Unit of Rheumatology, (6) Department of Internal Medicine, (7) Department of Oral Medicine & Sjogten's syndrome Center, Hadassah-Hebrew University Medical Center, Jerusalem

**39 Molecular Genetic Analysis of Israeli Families with Idiopathic Infantile Nystagmus**

16:37

AC

Chen Weiner (1), Iris Nassie (1), Noam Shomron (2), Haike Reznik-Wolf (3), Eran Pras (1)  
(1) Matlow's Ophthalmogenetic Laboratory, Assaf Harofe Medical Center, Zerifin, (2) Functional Genomics Laboratory Tel Aviv University, (3) Danek-Gertner institute of Human Genetics, Sheba Medical Center, Tel Hashomer, (4) Department of Ophthalmology, Assaf Harofe Medical Center, Zerifin, affiliated to Tel Aviv University.

**40 Novel PAX6 Mutation Causes Phenotypic Variability of Autosomal-Dominant Nystagmus and Foveal Hypoplasia**

16:44

Libe Gradstein (1), Ohad Wormser (2), Regina Proskorovski (2), Juliana Habeeb (2), Ohad S. Birk (2,3)  
(1) Department of Ophthalmology, Soroka Medical Center and Clalit Health Services, Ben-Gurion University, (2) Morris Kahn Laboratory of Human Genetics, National Institute for Biotechnology in the Negev, Ben-Gurion University, (3) Genetics Institute, Soroka Medical Center, Ben-Gurion University, Beer Sheva

- 41**      **Dissecting the Phenotypic Influence of Rare Genetic Variations among Patients with Age-Related Macular Degeneration**
- 16:51
- AC      Nadav Shoshany (1,2), Chen Weiner (2), Ayala Kol (2), Noam Shomron (3), Eran Pras (1,2)  
(1) Ophthalmology Department, Assaf Harofe Medical Center, Zeriffin, affiliated to Tel Aviv University, (2) Matlow's Ophthalmogenetic laboratory, Assaf Harofe Medical Center, Zeriffin, (3) Functional Genomics laboratory, Tel Aviv University
- 16:58      **Discussion**

Thursday, March 16<sup>th</sup> 2017

**Coffee and Exhibition**

8:00 -8:50

**Animal models**

8:50 - 9:45

Moderators: Adi Inbal and Ruby Shalom-Feuerstein

**42 Changes in Retinal Genetic Profile of Dark Reared Albino Rats Predispose to Light Damage and may Mimics Aspects of Aging**

8:50

AC

Amir Massarweh, Ido Perlman  
Department of Physiology and Biophysics, the Ruth and Bruce Rappaport Faculty of Medicine, Technion-Israel Institute of Technology and the Rappaport Institute, Haifa

**43 Homozygous *CEP250* Knockout Leads to a Relatively Late-Onset Retinal Degeneration**

8:57

AC

Alaa` Abu-diab (1), Chen Matsevich (1), Alexey Obolensky (1), Marije de jong (2), Ayala Ejzenberg (1), Eyal Banin (1), Samer Khateb (1), Dror Sharon (1)  
(1) Dept. of Ophthalmology and (2) Dept. of Otolaryngology, Hadassah-Hebrew University Medical Center, Jerusalem

**44 Characterization of Retinal Function and Structure in *FAM161A* Knockout Mice**

9:04

AC

Chen Matsevich (1), Avigail Beryozkin (2), Alexey Obolensky (1), Ayala Ejzenberg (1), Dror Sharon (2), Eyal Banin (1)  
(1) Center for Retinal and Macular Degenerations, and (2) Molecular Ophthalmology Laboratory, Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem

**45 A New Zebrafish Model for Studying Molecular Genetic Mechanisms Underlying Lens Epithelium Derived Cataract**

9:11

Kineret Taler (1), Ariel Rubinstein (1), Jeffery Gross (2), Adi Inbal (1)  
(1) IMRIC, The Hebrew University of Jerusalem – Hadassah Medical School, (2) Department of Ophthalmology, Louis J. Fox Center for Vision Restoration, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, USA

**46 The Role of Nitric Oxide (NO) in Neuronal Adaptation in the Turtle Retina**

9:18

AC

Reem Taha, Ido Perlman  
Technion-Israel Institute of Technology, Haifa

Thursday, March 16<sup>th</sup> 2017

**47 CEP78 Knockout Using CRISPR-Cas9 in Zebrafish**

9:25

AC

Yael Kinarty (1,2), Samer Khateb (1), Dror Sharon (1), Adi Inbal (2)  
(1) Dept. of Ophthalmology, Hadassah-Hebrew university Medical Center, Jerusalem, (2) Dept. of Medical Neurobiology, Institute for Medical Research Israel-Canada, The Hebrew University - Hadassah Medical School, Jerusalem

**48 Evaluation of Retinal Degeneration in Royal College of Surgeons (RCS) Rats Using Blue Laser Fundus Autofluorescence and Optical Coherence Tomography**

9:32

AC

Ettel Bubis, Adi Tzameret, Ifat Sher, Ygal Rotenstreich  
Goldschleger Eye Institute, Sackler Faculty of Medicine, Tel Aviv University, Sheba Medical Center, Tel-Hashomer

9:39

**Discussion**

**Retinal genetics 1**

9:45 - 10:30

Moderators: Tamar Ben-Yosef and Nitza Goldenberg-Cohen

**49 Nonsyndromic Retinitis Pigmentosa in the Ashkenazi Jewish Population: Genetic and Clinical Aspects**

9:45

AC

Adva Kimchi (1), Samer Khateb (1), Rong Wen (2), Ziqiang Guan (3), Eran Pras (4,5), Shoshi Kurtzman (1), Samuel G. Jacobson (6), Hadas Newman (7,5), Tamar Ben-Yosef (8), Eyal Banin (1), Dror Sharon (1)  
(1) Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem. (2) Bascom Palmer Eye Institute, University of Miami, FL, USA, (3) Duke University Medical Center, Durham, NC, USA, (4) Department of Ophthalmology, Assaf Harofeh Medical Center, Zerifin, (5) Sackler Faculty of Medicine, Tel-Aviv University, (6) Department of Ophthalmology, University of Pennsylvania, Philadelphia, PA, USA, (7) Department of Ophthalmology, Sourasky Medical Center, Tel-Aviv, (8) The Rappaport Faculty of Medicine, Technion, Haifa

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- 50** **Co-occurrence of CFH and PRDM13-Related Variants in a Family with Autosomal Dominant Maculopathy of Marked Variable Severity**  
9:52  
AC Prasanthi Namburi (1), Segev Meyer (1), Tom Ben-Tovim (1), Rinki Ratnapriya (2), Samer Khateb (1), Anand Swaroop (2), Eyal Banin (1), Dror Sharon (1)  
(1) Ophthalmology Hadassah Department, -Hebrew University Medical Center, Jerusalem, (2) Neurobiology-Neurodegeneration & Repair Laboratory, National Eye Institute, National Institutes of Health, Bethesda, MD, USA
- 51** **Analyzing the Genetic Basis for Inherited Retinal Dystrophy in a Cohort of Israeli Patients by Targeted Next Generation Sequencing**  
9:59  
AC Yasmin Tatour (1), Muhammad Imran Khan (2), Frans P.M. Cremers (2), Tamar Ben-Yosef (1)  
Rappaport Faculty of Medicine, Technion, Haifa, (2) Radboud University Medical Center, Nijmegen, The Netherlands
- 52** **Molecular Inversion Probes (MIPs) Analysis of 108 Genes Associated with Inherited Retinal Diseases in 410 Israeli Index Cases**  
10:06  
AC Samer Khateb (1), Muhammad Imran Khan (2), Mor Hanani (1), Ephrat Brill (1), Prasanthi Namburi (1), Eyal Banin (1), Frans P.M. Cremers (2), Dror Sharon (1)  
(1) Hadassah-Hebrew University Medical Center, Jerusalem, (2) Department of Human Genetics and Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Center, Nijmegen, the Netherlands
- 53** **Clinical Characteristics of Patients with Retinitis Pigmentosa due to Biallelic *FAM161A* Mutations**  
10:13  
AC Avigail Beryozkin, Samer Khateb, Carlos Idrobo, Mor Hanany, Alexey Obolensky, Dror Sharon, Eyal Banin  
Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem
- 10:20 **Discussion**

**Coffee and Exhibition**

10:30 - 11:15



**Retinal genetics 2**

11:15 - 12:00

Moderators: Hadas Newman and Ido Perlman

- 54 Identification of a Novel Gene Involved in Syndromic Retinitis Pigmentosa**  
11:15 Tamar Ben-Yosef (1), Elana Chervinsky (2), Yasmin Tatour (1)  
(1) Rappaport Faculty of Medicine, Technion, Haifa, (2) The Genetic Institute, Emek Medical Center, Afula
- 55 The Genetics of Inherited Retinal Dystrophies in the Palestinian Population**  
11:22 Alaa AlTalbishi (1,2) Yahia AlSweity (1), Fathiya Abu Turkey (2),  
AC Prasanthi Namburi (2), Frans Cremers (3), Muhammad Imran Khan (3), Eyal Banin (2), Dror Sharon (2)  
(1) St John Eye hospital, Jerusalem, (2) Hadassah-Hebrew University Medical Center, Jerusalem, (3) Department of Human Genetics, Radboud University Nijmegen Medical Center, the Netherlands
- 56 EYS Mutations can be Associated with Widespread Retinal Degeneration with Early Macular Involvement**  
11:29 AC Gilad Allon (1,2), Shiri Zayit-Soudry (2), Dror Sharon (3),  
Hamzah Aweidah (3), Eyal Banin (3), Tamar Ben-Yosef (1)  
(1) Rappaport Faculty of Medicine, Technion, Haifa, (2) Department of Ophthalmology, Rambam Health Care Campus, Haifa, (3) Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem
- 57 Two Different novel EYS Mutations Cause Retinitis Pigmentosa in a Single Bedouin Kindred**  
11:36 AC Ohad Wormser (1), Libe Gradstein (2), Soltan Khalaila (2), Lena Mashkit (3), Khalil Elbedour (3), Barak Markus (4), Jaime Levy (2), Tova Lifshitz (2), Ohad S. Birk (1,3)  
(1) The Morris Kahn Laboratory of Human Genetics at the National Institute of Biotechnology in the Negev, Ben-Gurion University, (2) Department of Ophthalmology, Soroka Medical Center and Clalit Health Services, Faculty of Health Sciences, Ben-Gurion University, (3) Genetics Institute, Soroka Medical Center, Faculty of Health Sciences, Ben-Gurion University, Beer Sheva, (4) The Nancy and Stephen Grand Israel National Center for Personalized Medicine, Weizmann Institute of Science, Rehovot.

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**58 Carrier Frequency Analysis of Mutations Causing Recessive Inherited Retinal Diseases in the Israeli Population**

11:43

Mor Hanany (1), Gilad Allon (2,3), Adva Kimchi (1), Anat Blumenfeld (1), Eyal Banin (1), Tamar Ben Yosef (2), Dror Sharon (1)

(1) Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem, (2) Rappaport Faculty of Medicine, Technion, Haifa, (3) Department of Ophthalmology, Rambam Health Care Campus, Haifa

11:50 **Discussion**

**Awards and ISVER update**

12:00 - 12:30

**Guest lecture 1– Prof. Alon Wolf**

12:30 - 13:00

Director, Biorobotics and Biomechanics Lab (BRML); Faculty of Mechanical Engineering; Technion Israel Institute of Technology

**On the effect of altering foot center of pressure on lower limb Biomechanics and clinical applications**

**Lunch**

13:00 - 14:00

**Guest lecture 2– Prof. Alon Wolf**

14:00 - 14:30

Director, Biorobotics and Biomechanics Lab (BRML); Faculty of Mechanical Engineering; Technion Israel Institute of Technology

**Human Machine Merger: Are we headed for the MMATRIX?**

**Glaucoma (at Rayman Center)**

14:30 - 15:30

Moderators: Hani Levkovitch-Verbin and Orna Geyer

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- 59 The Microarchitecture of Schlemm's Canal Before and After Selective Laser Trabeculoplasty**  
14:30 Alon Skaat (1), Sung Chul Park (2), Jeffrey M. Liebmann (3)  
(1) Goldschleger Eye Institute, Sheba Medical Center, Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, (2) Department of Ophthalmology, Manhattan Eye, Ear and Throat Hospital, New York, NY, USA, (3) Harkness Eye Institute, Columbia University Medical Center, New York, NY, USA
- 60 Intra Ocular Injection of Plastic Microspheres Induces Glaucoma in Mice**  
14:37 Amir Sternfeld (1), Yaniv Barkana, Ron Ofri (2), Tamar Azrad-Leibovitch (3), Moran Friedman (3), Nitza Goldenberg-Cohen (3,4,5)  
AC (1) Departments of Ophthalmology, Rabin Medical Center – Beilinson Hospital, Petach-Tikva, (2) Koret School of Veterinary Medicine, Hebrew University of Jerusalem, Rehovot, (3) The Krieger Eye Research Laboratory Felsenstein Medical Research Center, Petach-Tikva, (4) Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, (5) Department of Ophthalmology, Bnai Zion Medical Center, Haifa
- 61 High Intensity Focused Ultrasound (Hifu) as a Novel Treatment for Moderate-Advanced Glaucoma Patients**  
14:44 Ari Leshno, Alon Skaat, Shlomo Melamed  
AC The Goldschleger Eye Institute, Sheba Medical Center, Tel Hashomer
- 62 Visual Field Testing, 15 Year Trends in a Large Health Maintenance Organization**  
14:51 Elad Ben-Artzi (1), Modi Goldenfeld (1), Asaf Cohen (2), Avi Porath (2), Hani Levkovitch-Verbin (1)  
AC (1) Goldschleger Eye Institute, Sheba Medical Center, Tel Hashomer, (2) Maccabi Healthcare Services
- 63 Measuring Contrast Sensitivity with SPARCS in Specific Areas of Vision – A Meaningful Way to Assess Quality of Life and Ability to Perform Daily Activities in Glaucoma Patients**  
14:58 Michael Waisbourd (1,2), Priyanka Gogte (2), Hamoon Eshraghi (2), Daniel Lee (2), Remy S. Manzi (2), Sheryl S Wizov (2), Lisa A. Hark (2), George L. Spaeth (2)  
(1) Tel-Aviv Medical Center, Tel-Aviv, Israel (2) Wills Eye Hospital, Philadelphia, PA, USA

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**64 Philadelphia Telemedicine Glaucoma Detection and Follow-up Study: Methodology and Year 1 Results**

15:05

Michael Waisbourd (1,2,5), Lisa A. Hark (2,5), L. Jay Katz (2,5), Deiana Johnson (2), Laura Pizzi (4), Thien Dan V. Bui (5), Jane Lee (6), Jonathan S. Myers, (2,5), Benjamin E. Leiby (6), Scott J. Fudenberg, (2,5) Anand V. Mantravadi (2,5), Jeffrey Henderer (7), Jeanne Molineaux (2), Arthur Resende (2), Archana Srinivasan (3), Shae Reber (3), Anna P. Murchison (2,5), Julia A. Haller (2,5)

(1) Tel-Aviv Medical Center, Tel-Aviv, Israel, (2) Wills Eye Hospital, Glaucoma Research Center, Philadelphia, USA, (3) Wills Eye Hospital, Department of Telemedicine, Philadelphia, USA, (4) Thomas Jefferson University School of Pharmacy, Philadelphia, USA, (5) Sidney Kimmel Medical College, Thomas Jefferson University Philadelphia, USA, (6) Thomas Jefferson University Division of Biostatistics, Philadelphia, USA, (7) Temple University School of Medicine, Department of Ophthalmology, Philadelphia, USA

15:12 **Discussion**

**Visual function** (at Rayman East)

14:30 - 15:30

Moderators: Ariela Gordon-Shaag and Gutfreund

**65 Comparison Between the amounts of Accommodation Activated by Printed Text vs. Text Displayed on a Computer Screen**

14:30

Hadas Eichenstein, Avigail Hazut, Mayan Zarbiv, Bat Sheva Bernstein and Einat Shneur  
Hadassah Academic College, Jerusalem

**66 Association of Myopia with Cognitive Function among One Million Israeli Adolescents**

14:37

Jacob Megreli (1,2,4), Adiel Barak (2,3), Dana Bez (1,4), Hagai Levine (4)

AC

(1) Tzameret Military Medical Program, Hebrew University-Hadassah Medical School, Jerusalem, (2) Tel Aviv Sourasky Medical Center, (3) Sackler Faculty of Medicine, Tel Aviv University, (4) Hebrew University-Hadassah Braun School of Public and Community Medicine, Jerusalem

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- 67**  
14:44  
**Head-Mounted Projection System for Visual Stimulation and Cortical Recordings as a Novel Method for Studying Natural and Artificial Vision in Behaving Animals**  
Tamar Arens-Arad, Nairouz Farah, Zeev Zalevsky, Yossi Mandel  
Faculty of life Sciences, Optometry Track and Bar-Ilan Institute for nanotechnology and Advanced Materials (BINA), Bar-Ilan University, Ramat-Gan, Faculty of Engineering, Bar Ilan University, Ramat Gan
- 68**  
14:51  
AC  
**Perceptual Grouping of Moving items in the Barn Owl (*Tyto alba*) - Behavioral and Neural Study**  
Tidhar Lev-Ari, Yael Zahar, Yoram Gutfreund  
Department of Neuroscience, The Ruth and Bruce Rappaport Faculty of Medicine and Research Institute, Technion, Haifa
- 69**  
14:58  
**Binocular Summation and the Correlation Between Spatial and Temporal Visual Functions in Normal and Amblyopic Subjects**  
Auria Eisen (1), Nairouz Farah (1), Zvia Burgansky-Eliash (2), Uri Polat (1), Yossi Mandel (1)  
(1) Faculty of life Sciences, Optometry Track, Bar-Ilan University, Ramat-Gan, (2) E. Wolfson Medical Center, Holon
- 70**  
15:05  
AC  
**Chromatic Multifocal Pupillometer for Objective Diagnosis of Neurodegeneration in the Eye and the Brain**  
Daniel Ben Ner (1,2), Ifat Sher (1), Maya Gurevich (1,2), Ron Chibel (1,2), Mohamad Mahajna (1,2), Alon Skaat (1,2), Zachary Weinerman (1,2), Anat Achiron (2,3), Inbal Sharvit-Ginon (4,5), Ramit Ravona-Springer (4), Michal Beeri (4), Eran Pras (2,6), Hadas Newman (2,7), Jaime Levy (8), Samer Khateb (9), Eyal Banin (9), Dror Sharon (9), Ygal Rotenstreich (1,2)  
(1) Goldschleger Eye Institute, Sheba Medical Center, Tel-Hashomer, (2) Sackler Faculty of Medicine, Tel Aviv University, Tel Aviv, (3) Multiple Sclerosis Center, Sheba Medical Center, Tel-Hashomer, (4) Sagol Neuroscience Center, Sheba Medical Center, Tel Aviv University, (5) Department of Psychology, Bar Ilan University, Ramat-Gan, (6) The Matlow's Ophthalmology-Genetics Laboratory, Department of Ophthalmology, Assaf-Harofeh Medical Center, Zerifin, (7) Ophthalmology Department, Tel Aviv Sourasky Medical Center, (8) Department of Ophthalmology, Soroka University Medical Center, Ben Gurion University of the Negev, Beer Sheva, (9) Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem

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**71 A Method for Rapid Objective Strabismus Angle Measurement**

15:19

Oren Yehezkel (1), Abraham Spierer (2), Dan Oz (1), Ran Yam (1), Michael Belkin (3)

AC

(1) Novasight Ltd, Airport city, (2) Goldschleger Eye Institute, Sheba Medical Center, Tel-Hashomer, (3) Goldschleger Eye Research Institute, Sheba Medical Center, Tel Hashomer

15:26 **Discussion**

**Coffee and Exhibition**

15:30 -16:00

**Oncology**

16:00 - 16:30

Moderators: Shahar Frenkel and Mordechai Rosner

**72 Use of Sonic Hedgehog Pathway Gene expression to predict Response to Vismodegib in Advanced BCC of Eyelid**

16:00

AC

Amir Sternfeld (1), Gur Ben-Yehuda (2), Iftach Yassar (1), Gil Tauber (3) ,Yoav Vardizer (4), Dean Adel (2), Nitza Goldenberg-Cohen (4,5)

(1) Department of Ophthalmology, Rabin Medical Center – Beilinson Hospital, Petach-Tikva, (2) Department of Plastic, Rabin Medical Center – Beilinson Hospital, Petach-Tikva, (3) Department of Dermatology, Rabin Medical Center – Beilinson Hospital, Petach-Tikva, (4) Department of Ophthalmology, Bnai Zion Medical Center, Haifa, (5) The Krieger Eye Research Laboratory, Felsenstein Medical Research Center, Petach-Tikva

**73 Ntravitreal Chemotherapy for Treating Vitreoretinal Lymphoma – 20 Years Experience**

16:07

Jacob Pe'er, Ron Kaufman, Shahar Frenkel  
Hadassah-Hebrew University Medical Center, Jerusalem

**74 Leaky Choroidal Nevi: A Clinical, Imaging and Therapeutic Analysis**

16:14

Shahar Frenkel, Gustavo A. Gutierrez-Vargas, Jacob Pe'er  
Department of Ophthalmology, Hadassah-Hebrew University Hospital, Jerusalem

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**75 The Mechanism of the Toxicity of Intravitreal Carboplatin Injection in a Rabbit Model**

16:21 Vicktoria Vishnevskia-Dai (1,4), Ofira Zloto (1,4), Dana Loberman (1,4), Ido Didi Fabian (1,4), Lea Twito (2,4), Ifat Sher (2,4), Ygal Rotenstreich (2,4), Arie Solomon (4), Hani Verbin Lekovitz (3,4), Mordechai Rosner (1,4)  
(1) Ocular Oncology research laboratory, (2) Retinal research laboratory, (3) Glaucoma research laborator., (4) Goldschleger Eye Research Institute Tel Aviv University Tel Hashomer

16:28 **Discussion**

**AMD**

16:30 - 17:00

Moderators: Itay Chowers and Ayala Pollack

**76 Genome Wide Association Analysis for Sub Retinal Drusenoid Deposits**

16:30 Gala Beykin\*, Michelle Grunin\*, Shira Hagbi-Levi, Batya Rinsky,  
AC Sarah Elbaz-Hayoun, Itay Chowers  
\* equal contribution  
Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem

**77 The Association of Demographic Factors with Visual Acuity of Neovascular Age-Related Degeneration under anti-VEGF Therapy**

16:37 Gala Beykin, Edward Averbukh, Diego Almeida, Itay Chowers  
AC Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem

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**78 Whole-Genome Association Study of Age-Related Macular Degeneration in the Israeli Population**

16:44

AC

Michelle Grunin (1), Gala Beykin (1), Elior Rahmani (2), Regev Schweiger (2), Liran Tiosano (1), Samer Khateb (1), Shira Hagbi-Levi (1), Batya Rinsky (1), Shai Carmi (3), Eran Halperin (4), Itay Chowers (1)  
(1) Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem, (2) Molecular Microbiology and Biotechnology, Tel-Aviv University, (3) Public Health, Hadassah-Hebrew University Medical Center, Jerusalem, (4) Computer Science and Department of Anesthesiology and Perioperative Medicine, University of California, Los Angeles, CA, USA

**79 Phase I/IIa Clinical Trial of Human Embryonic Stem Cell (hESC)-Derived Retinal Pigmented Epithelium (RPE, OpRegen®) Transplantation in Advanced Dry Form Age-Related Macular Degeneration (AMD): Interim Results**

16:51

Eyal Banin (1), Yitzchak Hemo (1) Tareq Jaouni (1), Devora Marks Ohana (1), Shelly Stika (1), Svetlana Zheleznykov (1), Alexey Obolensky (1), Maria Gurevich (2) Charles S. Irving (2), Benjamin Reubinoff (3)  
(1) CRMD, Department of Ophthalmology, and (3) Center for Embryonic Stem Cells and the Department of Gynecology and Obstetrics, Hadassah-Hebrew University Medical Center, Jerusalem. (2) Cell Cure Neurosciences Ltd, Jerusalem

16:58 **Discussion**

**Concluding remarks**

17:00 - 17:05

Dror Sharon