

# ISVER Annual Meeting 2026

הכנס השנתי ה- 46 של  
האגודה הישראלית  
לחקר העין והראיה

יום רביעי | 11.3.2026

מלון דניאל, הרצליה

**ISVER**

האגודה הישראלית לחקר העין והראיה  
Israel Society For Vision & Eye Research

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## Scientific program

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| 07:30-08:20 | Registration and refreshments - Exhibition Area   |
| 08:20-08:30 | Welcome and Opening remarks<br><b>Prof. Michal Kramer</b>   |
| 08:30-09:20 | <b>Session: AI</b><br>Moderators: <b>Alon Tiosano</b> , Rabin MC   <b>Eran Berkovich</b> , Hillel Yaffe MC  |
| 08:30-08:50 | <b>2 Min Presentations</b>  |
| 08:30-08:32 | A Large Comprehensive Comparison of Large Language Models on Ophthalmology Board Exams<br><b>Alon Moore Galindo</b> , Tel Aviv MC AC  |
| 08:32-08:34 | AI-Based Structure-Function Analysis for a Novel Visual Field Reliability Index<br><b>Nir Avisar</b> , TAU AC   |
| 08:34-08:36 | Predicting Postoperative Outcomes in Full-Thickness Macular Hole Repair Surgery: ChatGPT vs. Clinical decision<br><b>Aya Watted</b> , Tel Aviv MC AC  |
| 08:36-08:38 | The Use of Artificial Intelligence Based Chat Bots in Ophthalmology Triage<br><b>Daniel David</b> , Sheba MC AC   |
| 08:38-08:40 | Systemic prostacyclin analogues in pulmonary hypertension are associated with reduced risk of age-related macular degeneration: a cohort study<br><b>Elad Eilon</b> , Hebrew University of Jerusalem AC |
| 08:40-08:42 | Identification and localization of myopic macular neovascularization using deep learning<br><b>Hanna Moalem</b> , Rabin MC AC   |
| 08:42-08:44 | Deep Learning-Based Localization and Classification of Retinal Anomalies on Fundus Images<br><b>Amit Lejtman</b> , Rabin MC AC  |
| 08:44-08:46 | Prediction of axial length from macular OCT images using artificial intelligence<br><b>Ori Mekiten</b> , Rabin MC AC  |
| 08:46-08:48 | Evaluating ChatGPT's Accuracy in Recommending Surgical Intervention for Epiretinal Membrane: A Comparison with Expert Ophthalmologists<br><b>Razan Saadi</b> , Tel Aviv MC AC                           |
| 08:48-08:50 | Words Have Meaning: How Commercial LLMs are Fooled by Report Labels<br><b>Shai Dushnitzky</b> , Sheba MC AC   |

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| 08:50-09:20 | <b>5 Min Presentations</b>  |
| 08:50-08:55 | Drusen Subtypes as Biomarkers in Neovascular AMD: Insights from Volumetric AI-OCT Analysis<br><b>Ben Mizrahi</b> , Tel Aviv MC <span style="float: right;">AC</span>  |
| 08:55-09:00 | Early Detection of Keratoconus Using Corneal Tomography Image Analysis by GPT-4o<br><b>Eitan Livny</b> , Rabin MC   |
| 09:00-09:05 | Machine learning to predict outcomes of anti-VEGF treatment for neovascular age-related macular degeneration<br><b>Lena Ilanit Trifonov</b> , Tel Aviv MC   |
| 09:05-09:10 | Retina Research in the Era of Big Data: Insights from a Year of Real-World Evidence Using the TriNetX Network<br><b>Natan Lishinsky-Fischer</b> , Hadassah MC   |
| 09:10-09:15 | Towards Non-Invasive Blood Count Using a Deep Learning Pipeline from Bulbar Conjunctiva Videos<br><b>Ygal Rotenstreich</b> , Sheba MC   |
| 09:15-09:20 | Discussion  |
| 09:20-09:25 | <b>Session Rotation</b>   |
| 09:25-10:00 | Session: <b>Anterior Segment   Cataract   Cornea</b><br>Moderators: <b>Einat Shneur</b> , JMC   <b>Yoav Nahum</b> , Rabin MC  |
| 09:25-09:47 | <b>2 Min Presentations</b>  |
| 09:25-09:27 | Corneal power estimation from anterior corneal surface images using artificial intelligence<br><b>Alon Tiosano</b> , Rabin MC <span style="float: right;">AC</span>   |
| 09:27-09:29 | Automated detection of the Annular Dark Shadow for early identification of keratoconus using image-processing<br><b>Arige Gideon Abou Said</b> , Jerusalem Multidisciplinary College (JMC)  |
| 09:29-09:31 | Phacoemulsification in patients with ocular cicatricial pemphigoid (OCP/MMP)<br><b>Timna Leshchinski</b> , Rabin MC   |
| 09:31-09:33 | Reproducibility and Within-Subject Variability of the Dry Eye Analyzer in Young Adults With and Without Dry Eye Symptoms: Preliminary Results<br><b>Efrat Netanya</b> , Jerusalem Multidisciplinary College (JMC) <span style="float: right;">AC</span> |
| 09:33-09:35 | Longitudinal variability in sequential biometric measurements and its effect on intraocular lens calculations<br><b>Einav Baharav Shlezinger</b> , Rabin MC <span style="float: right;">AC</span>   |
| 09:35-09:37 | A Novel Method of Video Recording Ophthalmic Surgical Procedures Using the Smartphone<br><b>Josh Kruger</b> , Hadassah MC   |
| 09:37-09:39 | Comparison of Patient-Reported Outcome Measures (PROMs) Following Cataract Surgery at Hadassah Medical Center<br><b>Zipora Boim</b> , Hadassah MC <span style="float: right;">AC</span>   |
| 09:39-09:41 | Visual Outcomes Following Cataract Surgery with Custom Made Toric IOLs for the Correction of High Corneal Astigmatism<br><b>Olga Reitblat</b> , Rabin MC <span style="float: right;">AC</span>  |

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| 09:41-09:43 | Association Between Contact Lens Type and Dry Eye Outcomes in Keratoconus<br><b>Reut Ifrah</b> , Jerusalem Multidisciplinary College (JMC)  |    |
| 09:43-09:45 | Immune Regulation of the Limbal Stem Cell Niche by Dendritic and $\gamma\delta$ T Cells<br><b>Shira Hadad-Porat</b> , Technion  | AC |
| 09:45-09:47 | Predicting keratoconus progression using machine learning analysis of tomographic images<br><b>Yamit Cohen-Tayar</b> , Rabin MC   | AC |
| 09:47-09:57 | <b>5 Min Presentations</b>  |    |
| 09:47-09:52 | The miR-184/ATF3 Axis Controls Active Limbal Stem Cell Identity and Corneal Epithelial Renewal<br><b>Gharam Yassen</b> , Technion   |    |
| 09:52-10:00 | Discussion  |    |
| 10:00-10:30 | Coffee Break at Exhibition Area   |    |
| 10:30-11:35 | <b>Session: Genetics</b><br>Moderators: <b>Tamar Ben-Yosef</b> , Technion   <b>Claudia Yahalom</b> , Hadassah MC  |    |
| 10:30-10:46 | <b>2 Min Presentations</b>  |    |
| 10:30-10:32 | Triack, A Novel Irreversible High Potency Thrombin Pathway Modulator in Eye Drops Penetrates to Murine and Pig Retina<br><b>Efrat Shavit Stein</b> , Sheba MC                           |    |
| 10:32-10:34 | Family Planning in Genetic Optic Atrophies in Israel, a Case Series and a Discussion of Ethical Considerations<br><b>Eliane Rozanes</b> , Rabin MC                                      | AC |
| 10:34-10:36 | Genetic Diagnosis of Inherited Retinal Diseases Improved by Whole Genome Sequencing<br><b>Johanna Valensi</b> , Hebrew University of Jerusalem  | AC |
| 10:36-10:38 | A Knock-In Mouse Model for the Human TRPM1 - p.Lys294* Mutation as the Cause of Congenital Stationary Night Blindness<br><b>Manar Salameh</b> , Hebrew University of Jerusalem          | AC |
| 10:38-10:40 | TRPM1 p.K294*: A Dual-Effect Mutation and Implications for Developing Targeted Therapies<br><b>Nina Schneider</b> , Hadassah MC   | AC |
| 10:40-10:42 | A p63 point mutation impairs limbal stem cell and niche function that is rescued by the small molecule PRIMA-1Met (APR-246)<br><b>Rabea Misherki</b> , Technion                         | AC |
| 10:42-10:44 | Probing the Molecular Mechanisms Underlying the Protective Role of Systemic Immunity in the Fam161a Knock-out Mouse Model of Retinitis Pigmentosa<br><b>Rotem Mizrahi</b> , Hadassah MC | AC |
| 10:44-10:46 | A UGA stop codon suppressor tRNA therapy for gene-agnostic treatment of inherited retinal diseases<br><b>Sandeep Sarma</b> , Hadassah MC  |    |

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| 10:46–11:35 | <b>5 Min Presentations</b>   |
| 10:46–10:51 | Compilation and analysis of the global retinal inherited disease 2 (GRID2) data set<br><b>Alaa Saleh</b> , Hadassah MC <span style="float: right;">AC</span>   |
| 10:51–10:56 | Phenotypic–Genotypic Correlations in Ocular Cutaneous Albinism Type II<br><b>Ayala Katzir</b> , Hadassah MC <span style="float: right;">AC</span>  |
| 10:56–11:01 | A Platform to Increase the accessibility of essential information that enables eradication of mutations causing autosomal dominant retinitis pigmentos<br><b>Tuvia Horev</b> , Ben-Gurion University of the Negev      |
| 11:01–11:06 | Functional characterization of C19orf44, a novel gene associated with autosomal recessive retinal dystrophy<br><b>Maayan Avraham</b> , Technion <span style="float: right;">AC</span>                                  |
| 11:06–11:11 | LCA in the Israeli population: clinical and molecular characteristics<br><b>Melanie Mysler</b> , Hadassah MC <span style="float: right;">AC</span>   |
| 11:11–11:16 | Clinical and molecular characterization of ocular developmental disorders in the Israeli population<br><b>Yakov Rabinovich</b> , Bnai Zion MC <span style="float: right;">AC</span>                                    |
| 11:16–11:21 | Correction of the achromatopsia-causing CNGB3-c.1663-1205G>A mutation using antisense oligonucleotides in patient-derived retinal organoids<br><b>Sapir Shalom</b> , Hadassah MC <span style="float: right;">AC</span> |
| 11:21–11:26 | Pathogenic variants in YARS1 in individuals with a phenotype resembling Usher syndrome<br><b>Sofia Itskov</b> , Technion   |
| 11:26–11:35 | Discussion   |
| 11:35–11:40 | <b>Session Rotation</b>  |
| 11:40–12:35 | <b>Session: Glaucoma   Pediatric   Refraction</b><br>Moderators: <b>Hadas Mechoulam</b> , Hadassah MC   <b>Ari Leshno</b> , Shebe MC   |
| 11:40–11:58 | <b>2 Min Presentations</b>   |
| 11:40–11:42 | Cyclotorsion After Glaucoma Surgery: Quantitative Insights from Fundus Imaging<br><b>Alon Zahavi</b> , Rabin MC  |
| 11:42–11:44 | Genetic regulation discovery in the aqueous humor outflow pathways, macula and optic nerve head proposes causal mechanisms for glaucoma<br><b>Ayellet Segre</b> , Harvard Medical School                               |
| 11:44–11:46 | Female Color vision deficiency is associated with increased prevalence of amblyopia, strabismus and ametropia<br><b>Eddie Barayev</b> , Rabin MC <span style="float: right;">AC</span>                                 |
| 11:46–11:48 | Changes in Astigmatism in Children With Congenital Nasolacrimal Duct Obstruction Undergoing Probing and Irrigation<br><b>Itay Shavit</b> , TAU - Tel Aviv University <span style="float: right;">AC</span>             |
| 11:48–11:50 | Professionals' Perceptions of Vision Impairments of Children With Autism Spectrum Disorder<br><b>Liat Gantz</b> , Jerusalem Multidisciplinary College (JMC)  |
| 11:50–11:52 | Periocular Impetigo in Children: A Distinct Clinical Entity with Ocular Surface Involvement<br><b>Lital Smadar</b> , Sheba MC <span style="float: right;">AC</span>  |

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| 11:52-11:54 | Myopia in Israeli children: Early educational exposure drives sex-specific patterns in ultra-orthodox children<br><b>Dr. Ravid Doron</b> , Jerusalem Multidisciplinary Collage (JMC)                     |    |
| 11:54-11:56 | Exploring the Shared Neurodegenerative Mechanisms Between Glaucoma and Alzheimer's Disease<br><b>Raz Rubinshtein</b> , Technion  | AC |
| 11:56-11:58 | Do yellow filters improve visual function in cases of simulated media opacity with and without glare<br><b>Rivki Bloom</b> , Jerusalem Multidisciplinary College (JMC)                                   | AC |
| 11:58-12:00 | Association between topical beta-blockers use and Parkinson's disease: Evidence from a real-world multicenter cohort<br><b>Yaara Lisai-Goldstein</b> , Hebrew University of Jerusalem                    | AC |
| 12:00-12:35 | <b>5 Min Presentations</b>   |    |
| 12:00-12:05 | Optimizing screening for type I retinopathy of prematurity using a machine learning-based risk prediction model<br><b>Hadas Mechoulam</b> , Hadassah MC  |    |
| 12:05-12:10 | Outcomes of cataract surgery in infants under one year compared to children aged one to five years: A propensity-score-matched cohort study<br><b>Diala Abu Al-Halawa</b> , Hadassah MC                  | AC |
| 12:10-12:15 | Glaucoma and pregnancy: Treatment patterns and medication adjustments<br><b>Jacob Megreli</b> , Rabin MC   | AC |
| 12:15-12:20 | Natural killer cells may promote corneal graft failure via direct corneal fibroblast killing in a murine model of pediatric penetrating keratoplasty<br><b>Mark Krauthammer</b> , Harvard Medical School |    |
| 12:20-12:25 | Small-volume NanoDropper delivery maintains efficacy of tropicamide, latanoprost and brinzolamide-timolol: Insights from canine eyes<br><b>Lionel Sebbag</b> , Hebrew University of Jerusalem            | AC |
| 12:25-12:35 | Discussion   |    |
| 12:35-13:30 | Lunch at Hotel Restaurant, Deserts will be served at the Exhibition Area   |    |
| 13:30-13:45 | <b>ISVER General Assembly and Awards to Outstanding Researches of the 45th ISVER Conference</b>  |    |
| 13:45-14:25 | <b>Keynote Lecture:</b><br><b>Neurons see the light: new tools for studying and treating the nervous system</b><br><b>Prof. Ofer Yizhar</b> , Weizmann Institute   |    |
| 14:25-15:30 | <b>Session: Neuro-Ophthalmology   Oculoplastic   Oncology</b><br>Moderators: <b>Dafna Landau</b> , Sheba MC   <b>Gad Dotan</b> , Schneider Children's MC   |    |
| 14:25-14:41 | <b>2 Min Presentations</b>   |    |
| 14:25-14:27 | Chromatic Pupilloperimetry for Objective Diagnosis and Monitoring of Head Injuries, and Their Resultant Sleep Disturbances and Cognitive Decline<br><b>Arza Rosset</b> , Sheba MC                        | AC |
| 14:27-14:29 | An Immunocompetent Young Adult with Acute Vision Loss<br><b>Aviv Fineberg</b> , Rabin MC   | AC |
| 14:29-14:31 | Nasal vs Temporal Melanopsin-Mediated Pupillary Light Reflex Reveals Retinal Circuit Alterations in Brain Lesions<br><b>Tzur Shlomo Feldestein</b> , Sheba MC  | AC |

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| 14:31-14:33 | Chromatic Pupilloperimetry for Objective Diagnosis and Monitoring of Patients with Pseudotumor Cerebri<br><b>Jonathan Zontag</b> , Sheba MC   | AC |
| 14:33-14:35 | The role of CREB in uveal melanoma metabolism<br><b>Maria Gimmelshein-Vatkin</b> , Hebrew University of Jerusalem   | AC |
| 14:35-14:37 | Predictive Value of Macular Ganglion Cell Thinning Artifact for Disease Severity in Pediatric Idiopathic Intracranial Hypertension<br><b>Miriam Ehrenberg</b> , Schneider Children's MC |    |
| 14:37-14:39 | Tumor-specific inhibition of retinoblastoma cells' ability to respond to hypoxia as a treatment for vitreal seeding in a mouse xenograft model<br><b>May Rian</b> , Hadassah MC         |    |
| 14:39-14:41 | Timing of Thyroid Eye Disease Onset in Relation to Graves' Disease: Clinical and Therapeutic Implications<br><b>Shalev Fried</b> , Sheba MC   | AC |
| 14:41-15:30 | <b>5 Min Presentations</b>  |    |
| 14:41-14:46 | Mild carotid stenosis creates gradual, progressive, lifelong brain and eye damage: An experimental laboratory rat model<br><b>Arieh S Solomon</b> , TAU - Tel Aviv University           |    |
| 14:46-14:51 | Vascular-targeted photodynamic therapy eradicates conjunctival melanoma tumors<br><b>Eilon Shcolnik</b> , Kaplan MC   |    |
| 14:51-14:56 | Presumed Thyroid Eye Disease Without Systemic Thyroid Dysfunction or Detectable Autoantibodies: A Clinical Cohort Study<br><b>Tiran Golani</b> , Sheba MC                               | AC |
| 14:56-15:01 | Through the retinal lens: tracking Parkinson's progression with Neuro-Functional markers<br><b>Iska Fisher</b> , Sheba MC   | AC |
| 15:01-15:06 | Vitreoretinal lymphoma diagnosis by vitreous DNA methylation patterns<br><b>Maya Eiger-Moscovich</b> , Hadassah MC  |    |
| 15:06-15:11 | Optic nerve Crush Induce Acute Inflammation and Secondary Apoptosis<br><b>Talal Salti</b> , Technion  | AC |
| 15:11-15:16 | Epidemiology, Diagnosis, and Outcomes of Ocular (Choroidal and Orbital) Metastases: Retrospective Cohort Study from a Tertiary Center<br><b>Vicktoria Vishnevskia Dai</b> , Sheba MC    |    |
| 15:16-15:30 | Discussion  |    |
| 15:30-15:50 | Coffee Break at Exhibition Area   |    |
| 15:50-16:30 | <b>Session: Animal and Cell Models   Basic Science</b><br>Moderators: <b>Nitza Goldenberg-Cohen</b> , Bnai-Zion MC<br><b>Ron Ofri</b> , Koret School of Veterinary Medicine             |    |
| 15:50-15:56 | <b>2 Min Presentations</b>  |    |
| 15:50-15:52 | MSC-Derived Exosomes Convert Retinotoxic S100A9 Responses into Functional Enhancement in the Retina<br><b>Amanda Qarawani</b> , Technion  | AC |

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| 15:52-15:54 | Microbead-induced glaucoma model in mice: EndoCoat prolongs IOP elevation and increases retinal ganglion cell loss<br><b>Mohammed Darawshe</b> , Rabin MC   | AC |
| 15:54-15:56 | Glial and neuronal responses following optic nerve crush in diabetic and non-diabetic mice<br><b>Sami Tuma</b> , Bnai Zion MC   | AC |
| 15:56-16:30 | <b>5 Min Presentations</b>  |    |
| 15:56-16:01 | NGLY1 Deficiency Disrupts Aqueous and Lipid Homeostasis in the Eye: Evidence from a Zebrafish Model<br><b>Aviv Mesika</b> , Bar-Ilan University   | AC |
| 16:01-16:06 | Assessing Coenzyme Q10 as a Neuroprotectant in Chronic Cobalt Intoxication: A TEM - Based Study<br><b>Basel Obied</b> , Technion  | AC |
| 16:06-16:11 | Alström Syndrome modeling based on human pluripotent stem cells as a tool to understand the visual symptoms of the disease<br><b>Elie Frank</b> , Sheba MC  | AC |
| 16:11-16:16 | Assessment of Visual Functions and Pupil Light Reflex in Fragile X Carriers<br><b>Lea Zelianodjevo Engel</b> , Sheba MC   | AC |
| 16:16-16:21 | Towards High-Acuity Vision Restoration: Hybrid Retinal Prosthesis Composed of a High-Density Multielectrode Array Integrated With Glutamatergic Cells<br><b>Nairouz Farah</b> , Bar-Ilan University |    |
| 16:21-16:30 | Discussion  |    |
| 16:30-17:20 | <b>Session: Retina   Retinal Degeneration   Uveitis</b><br>Moderators: <b>Eyal Banin</b> , Hadassah MC   <b>Adiel Barak</b> , TLV MC  |    |
| 16:30-16:48 | <b>2 Min Presentations</b>  |    |
| 16:30-16:32 | High-density lipoprotein cholesterol levels and risk of age-related macular degeneration<br><b>Itay Nitzan</b> , Hadassah MC  | AC |
| 16:32-16:34 | Chronic Proton Pump Inhibitor Use Is Associated With Increased Risk of Diabetic Retinopathy: A Real-World Cohort Study<br><b>Nir Zontag</b> , Hadassah MC   | AC |
| 16:34-16:36 | Retinal Ischemic Events Following Cardiovascular Procedures: Temporal Patterns and Clinical Characteristics<br><b>Or Gil</b> , Sheba MC   |    |
| 16:36-16:38 | Retinal Microvascular Changes After a 26-Hour On-Call Shift in Medical Residents<br><b>Hadas Pizem</b> , Hadassah MC  | AC |
| 16:38-16:40 | Retinal hemorrhage in AMD patients - Systemic comorbidities or antithrombotic therapy?<br><b>Raz Tshuva Bitton</b> , Rabin MC   | AC |
| 16:40-16:42 | Targeting Toll-Like Receptor 4 in a Mouse Model of Advanced AMD<br><b>Shmuel Kagasov</b> , Rabin MC   | AC |
| 16:42-16:44 | Reduced Risk of Non-Neovascular AMD in Cancer Patients Treated with Immune Checkpoint Inhibitors: A Propensity-Matched Cohort Study<br><b>Sima Gharra</b> , Hebrew University of Jerusalem          |    |

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| 16:44-16:46 | Association of migraine with increased risk of central serous chorioretinopathy<br><b>Tehila Shlomov</b> , Hadassah MC   | AC |
| 16:46-16:48 | Epidemiological Characterization of Intermediate uveitis: A Systematic review and Meta analysis<br><b>Tom Liba</b> , Bar-Ilan University   | AC |
| 16:48-17:35 | <b>5 Min Presentations</b>   |    |
| 16:53-16:58 | Mitochondria transplantation protects RGCs from diabetic retinopathy<br><b>Avital Eisenberg-Lerner</b> , Kaplan MC   |    |
| 16:58-17:03 | Optimizing hiPSCs Sources for Retinal Organoids and Retinal Implant Integration<br><b>Diana Merezko</b> , Tel Aviv MC  | AC |
| 17:03-17:08 | Early detection of retinal Beta-Amyloid accumulation in 5XFAD Alzheimer mice using Immunohistochemistry and Advanced Imaging<br><b>Maha Othman Afifi</b> , Technion                                |    |
| 17:08-17:13 | Sex-based differences in subretinal and intraretinal fluid Absorption dynamics in age-related macular degeneration: a longitudinal real-world study<br><b>Michal Kaminer Abargel</b> , Hadassah MC | AC |
| 17:13-17:18 | The risk of retinal vein occlusion among patients with neovascular age related macular degeneration: a large-scale cohort study<br><b>Muhammad Kridin</b> , Emek MC                                | AC |
| 17:18-17:23 | From Risk to Progression: Genetic Insights into Atrophy Progression in AMD<br><b>Shlomit Jaskoll</b> , Hadassah MC   | AC |
| 17:23-17:28 | Skin Carotenoid Levels in Israeli Patients With Age-Related Macular Degeneration<br><b>Tzipora Greenberg</b> , Hebrew University of Jerusalem  | AC |
| 17:28-17:35 | Discussion   |    |
| 17:35       | Closing Remarks<br><b>Prof. Michal Kramer</b>  |    |

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