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## LOCATION OF EVENTS:

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**Sessions:** Auditorium

**Posters:** Outdoors, on the lawn

**Exhibition:** Foyer adjacent to Dining Room and Auditorium Foyer

**Coffee Breaks:** Foyer adjacent to Dining Room (soft drinks will be served next to the Auditorium)

**Gala Dinner:** Outdoors, on the lawn



# WELCOME

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**Dear Delegates,**

It is with great pleasure that we welcome you to ICRS2018: the 11th meeting of the Israeli Chapter of The Controlled Release Society. This meeting represents the apex of the activities of our society, established in 1996 as the local Israeli chapter of Controlled Release Society (CRS), a multinational organization that is devoted to the advancement of the scientific and technological areas of controlled release. Within this scope, the multi-disciplinary Israeli Local Chapter is dedicated to the science and technology of controlled release, drug and gene delivery systems, including cell-based and cell-derived, and innovative biomaterials and nanotechnologies in these fields as well as promoting education for a better future.

Following our long tradition of biannual meeting, we are happy to celebrate this year significant achievements in the fields of drug delivery and controlled release in Israel, leading worldwide cutting-edge research. These will be shared with our broad audience representing current, past, and future innovators, discoverers, and brightest minds from the top of Israel Academia, Health Sector, and Biotech Industry. Our planned meeting program is a mix of formats ranging from keynote sessions featuring well-known and thought-provoking speakers to intensive and highly interactive sessions.

We wish to thank all of our international and local speakers, our participants, sponsors, and exhibitors and wish you all an interesting, stimulating, and enjoyable meeting.

ICRS President Prof. Marcelle Machluf and the ICRS2018 Organizing Committee

## ICRS2018 ORGANIZING AND SCIENTIFIC COMMITTEE

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- **Marcelle Machluf**, ICRS President, Technion–Israel Institute of Technology
- **Rosa Azhari**, Azrieli College of Engineering Jerusalem
- **Yechezkel Barenholz**, The Hebrew University of Jerusalem
- **Simon Benita**, The Hebrew University of Jerusalem
- **Ofra Benny**, The Hebrew University of Jerusalem
- **Galia Blum**, The Hebrew University of Jerusalem
- **Abraham Domb**, The Hebrew University of Jerusalem
- **Rimona Margalit**, Tel Aviv University
- **Dan Peer**, Tel Aviv University
- **Abraham Rubinstein**, The Hebrew University of Jerusalem
- **Ronit Satchi-Fainaro**, Tel Aviv University
- **Avi Schroeder**, Technion – Israel Institute of Technology
- **Yoram Sela**, Sela Pharma Ltd.
- **Tomer Bronshtein**, ICRS2018 Secretary, Technion–Israel Institute of Technology

## PROGRAM

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**Sunday, October 7, 2018**

**12:00-13:15** *Registration and posters set-up*

**12:15-13:15** *Lunch*

**13:15-13:40** **WELCOME AND OPENING REMARKS**

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- *ICRS President, **Marcelle Machluf**, Technion-Israel Institute of Technology*
- *Words in memory of **Dr. Yoram Sela**, former ICRS President, by **Dan Peer**, Tel Aviv University*

**13:40-16:05** **S1: INNOVATIVE BIO-INSPIRED AND BIOMIMETIC MATERIALS**

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Chair: **Gershon Golomb**, *The Hebrew University of Jerusalem, Israel*

**13:40-14:20** **Paolo Decuzzi**, *Italian Institute of Technology, Italy*

**Keynote:** Designing soft polymeric nanoconstructs for vascular drug delivery and brain depots

**14:20-14:35** **Abraham Rubinstein**, *The Hebrew University of Jerusalem, Israel*

External-stimuli biodegradable hydrogels for combination-drug therapy with concomitant release rates – design considerations

**14:35-14:50** **Roey J. Amir**, *Tel Aviv University, Israel*

Designing enzymatically degradable polymeric amphiphiles with high molecular precision

**14:50-15:05** **Netanel Korin**, *Technion-Israel Institute of Technology, Israel*

Mechano-responsive cardiovascular nano-therapeutics

**15:05-15:20** **Boaz Mizrahi**, *Technion-Israel Institute of Technology, Israel*

Stimuli responsive polymers

**15:20-15:35** **Noam Emanuel**, *PolyPid Ltd., Israel*

PLEX technology - A lipid-and-polymer-based novel local drug delivery system - from concept to clinical practice

**15:35-15:50** **Adolfo Lopez-Noriega**, *MedinCell, France*

BEPO<sup>®</sup>: Injectable *in-situ* forming depots for the sustained release of active pharmaceutical ingredients

**15:50-16:05** **Aiman Abu Ammar**, *Azrieli College of Engineering Jerusalem, Israel & Technion-Israel Institute of Technology, Israel*

Sustained release of steroids from electrospun biodegradable fibers for localized drug delivery

**16:05-16:40** **Coffee Break & Exhibition**

## Sunday, October 7, 2018 (continued)

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### 16:40-17:40 S2: NANOMEDICINE IN THE EYE OF IMMUNOTHERAPY

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Co-Chairs: **Smadar Cohen**, *Ben-Gurion University of the Negev, Israel*  
**Dan Peer**, *Tel Aviv University, Israel*

- 16:40-16:55 **Ronit Satchi-Fainaro**, *Tel Aviv University, Israel*  
Designing precision nanomedicines to treat melanoma brain metastases in three dimensions
- 16:55-17:10 **Cyrille J. Cohen**, *Bar-Ilan University, Israel*  
Bridging between personalized medicine and T-cell based immunotherapy
- 17:10-17:25 **Avi Schroeder**, *Technion-Israel Institute of Technology, Israel*  
Precision cancer nanomedicines and nanoimmunotherapies
- 17:25-17:40 **Anna Scomparin**, *Tel Aviv University, Israel*  
Dendritic cell-targeted nano-vaccines synergize with ibrutinib and PD-1/OX40 immune checkpoints modulators for melanoma therapy

### 17:45-19:00 S3: SHORT PRESENTATIONS OF SELECTED POSTERS FROM SUBMITTED ABSTRACTS (Part 1)

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Chair: **Ester Segal**, *Technion-Israel Institute of Technology, Israel*

- 17:45-17:50 **Michal Rosenberg**, Ester Segal, *Technion – Israel Institute of Technology, Israel*  
New therapeutic approaches to administer nerve growth factor into the brain using porous silicon nanostructures
- 17:50-17:55 **Evgeni Pisarevsky**, Ronit Satchi-Fainaro, *Tel Aviv University, Israel*  
Rational design of polyglutamic acid delivering a combination of drugs targeting melanoma brain metastases
- 17:55-18:00 **Guy Keller**, Ruth Gabizon, *Hadassah-Hebrew University Medical Center, Israel*  
Delay of neurodegenerative disease by Nano-PSO (GranaGard) is associated with restoring normal mitochondrial function
- 18:00-18:05 **Maya Kaduri**, Avi Schroeder, *Technion-Israel Institute of Technology, Israel*  
Synthetic cells produce therapeutic proteins inside tumors
- 18:05-18:10 **Nuphar Veiga**, Dan Peer, *Tel Aviv University, Israel*  
A modular platform for targeted RNAi therapeutics
- 18:10-18:15 **David Kirmayer**, Michael Friedman, *The Hebrew University of Jerusalem, Israel*  
Injectable dental implants for controlled release of drugs
- 18:15-18:20 **Noa Cohen Anavy**, Marcelle Machluf, *Technion-Israel Institute of Technology, Israel*  
Nano-ghosts for selective drug delivery across the blood-brain barrier
- 18:20-18:25 **Moran Levi**, Netanel Korin, *Technion-Israel Institute of Technology, Israel*  
Glycoprotein VI (GPVI) functionalized drug carriers for targeted drug delivery at atherothrombotic sites
- 18:25-18:30 **Mahran Daifa**, Abraham J. Domb, *The Hebrew University of Jerusalem, Israel*  
Iodixanol Injectable Polymer as Contrast Agent
- 18:30-18:35 **Stasia Krishtul**, Marcelle Machluf, *Technion-Israel Institute of Technology, Israel*  
Developing a pancreatic ECM-based 3D microencapsulation platform for diabetes therapy
- 18:35-18:40 **Natalie Orehov**, Ofra Benny, *The Hebrew University of Jerusalem, Israel*  
Three-dimensional tumor spheroid models in cancer research

## Sunday, October 7, 2018 (continued)

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- 18:40-18:45 **Shaowei Guo**, Shulamit Levenberg, *Technion-Israel Institute of Technology, Israel*  
Intranasal mesenchymal stem cell-derived exosomes loaded with phosphatase and tensin homolog small interfering RNA enables functional recovery after complete spinal cord injury
- 18:45-18:50 **Liat Soudry-Kochavi**, Simon Benita, *The Hebrew University of Jerusalem, Israel*  
Oral delivery of Exenatide using solid nano-in-micro-particles
- 18:50-18:55 **Maria Khoury**, Netanel Korin, *Technion-Israel Institute of Technology, Israel*  
Vascular targeting of nano carriers in arterial bifurcations
- 18:55-19:00 **Alex Andrianov**, Yechezkel Barenholz, *Hebrew University – Hadassah Medical School, Israel*  
Therapeutic efficacy of combined PEGylated liposomal doxorubicin and radiofrequency ablation: Comparing single and combined therapy on young and old mice
- 19:00-21:00** *Dinner (last guest seated by 20:30)*
- 21:30-23:00** **POSTER SESSION, BEERS & SNACKS**
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## Monday, October 8, 2018

**07:00-08:30** *Breakfast*

**08:30-09:55** **S4: PHYSIOLOGICAL AND BIOLOGICAL DRUG BARRIERS**

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Chair: **Ofra Benny**, *The Hebrew University of Jerusalem, Israel*

- 08:30-09:10 **Daniel Kohane**, *Boston Children's Hospital, USA*  
**Keynote:** Trans-tympanic delivery of antibiotics
- 09:10-09:40 **Randy Mrsny**, *University of Bath, UK*  
An endogenous solute uptake pathway for oral peptide delivery
- 09:40-09:55 **Alejandro Sosnik**, *Technion-Israel Institute of Technology, Israel*  
Glycosylated self-assembled nanocarriers for active drug targeting of pediatric patient-derived tumors

**10:00-11:00** **S5: TARGETING INFLAMMATION & NEURODEGENERATION**

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Co-Chairs: **Ronit Satchi-Fainaro** and **Doron Shabat**, *Tel Aviv University, Israel*

- 10:00-10:15 **Yechezkel Barenholz**, *Hebrew University-Hadassah Medical School, Israel*  
Liposomal steroids: From the bench via pre-clinical research to clinical practice
- 10:15-10:30 **Gershon Golomb**, *The Hebrew University of Jerusalem, Israel*  
Monocyte-mediated drug delivery systems for diagnosis and therapy
- 10:30-10:45 **Orit Shefi**, *Bar-Ilan University, Israel*  
Nanoengineered platforms for controlled release of factors for the nervous system
- 10:45-11:00 **Jonathan Leor**, *Tel-Aviv University, Israel*  
Targeting inflammation to reduce cardiac fibrosis and heart failure

## Monday, October 8, 2018 (continued)

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**11:00-11:30** *Coffee Break & Exhibition*

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### **11:30-12:55 S6: THERANOSTICS, BIOMARKERS, BIOSENSORS & GLYCOMICS**

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Co-Chairs: **Rosa Azhari**, *Azrieli College of Engineering Jerusalem, Israel* and  
**Simon Benita**, *The Hebrew University of Jerusalem*

11:30-12:10 **Twan Lammers**, *RWTH Aachen University Clinic, Germany*

**Keynote:** Smart Macro-Nanomedicine

12:10-12:25 **Doron Shabat**, *Tel Aviv University, Israel*

The emergence of Aqueous Chemiluminescence: New promising class of Phenoxy 1,2-Dioxetanes

12:25-12:40 **Ester Segal**, *Technion-Israel Institute of Technology, Israel*

Point-of-care platform for rapid antimicrobial susceptibility testing

12:40-12:55 **Vered Padler-Karavani**, *Tel Aviv University, Israel*

Cancer immunotherapy targeting carbohydrate antigens

**13:00-14:30** *Lunch, Exhibition & Poster Viewing*

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### **14:30-15:30 S7: TRANSLATIONAL NANOMEDICINE & BUSINESS DEVELOPMENT - PANEL DISCUSSION**

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Moderator & Opening Remarks: **Yechezkel Barenholz**, *The Hebrew University of Jerusalem, Israel*

*Panel Members:*

**Simon Benita**, *The Hebrew University of Jerusalem, Israel*

**Ronit Satchi-Fainaro**, *Tel Aviv University, Israel*

**Alberto Gabizon**, *Shaare Zedek Medical Center, Israel*

**Dan Peer**, *Tel Aviv University, Israel*

**Avi Schroeder**, *Technion-Israel Institute of Technology, Israel*

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### **15:30-16:45 S8: CANCER-TARGETED DELIVERY**

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Co-Chairs: **Rimona Margalit**, *Tel Aviv University, Israel* and

**Boaz Mizrahi**, *Technion-Israel Institute of Technology, Israel*

15:30-15:45 **Meir Wilchek**, *Weizmann Institute of Science, Israel*

A short history of Antibody-Drug Conjugates (ADC) development

15:45-16:00 **Simon Benita**, *The Hebrew University of Jerusalem, Israel*

Oxaliplatin acetate palmitate: A prodrug or a new promising chemical entity for the treatment of cancers

16:00-16:15 **Ofra Benny**, *The Hebrew University of Jerusalem, Israel*

Controlling mechanical cues of nano carriers for enhanced drug targeting in cancer

16:15-16:30 **Yosi Shamay**, *Technion-Israel Institute of Technology, Israel*

Nanoinformatics: Using machine learning to achieve superior cancer targeted nanomedicines

16:30-16:45 **Elnekave Eldad**, *Rabin Medical Center, Israel*

Doxorubicin eluting intra-arterial therapy for pediatric extra-abdominal desmoid fibromatoses—a promising approach for a perplexing disease

## Monday, October 8, 2018 (continued)

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16:45-17:15 *Coffee Break & Exhibition*

### 17:15-18:00 S9: CELL-BASED & CELL-DERIVED THERAPIES

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Chair: **Jonathan Leor**, *Tel Aviv University, Israel*

17:15-17:30 **Daniel Offen**, *Tel Aviv University, Israel*

Exosomes as Trojan horses for brain disorders treatment

17:30-17:45 **Ohad Karnieli**, *The Process & Product Development Committee of the International Society for Cellular Therapy and ATVIO Biotechnology*

Introduction to the industry of cell-based drug delivery

17:45-18:00 **Rachela Popovtzer**, *Bar-Ilan University, Israel*

Nanoparticles for in-vivo cell tracking: Imaging detection and stratified medicine

### 18:00-18:15 S10: SHORT PRESENTATIONS BY MEDINCELL OPEN INNOVATION CONTEST FINALISTS

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Chair: **Aurore Andre**, *Azapharm, France*

18:00-18:05 **Domenico D'Atri**, *Technion-Israel Institute of Technology, Israel*

Personalized medicine, an incoming reality. How far are we? And why do we need it?

18:05-18:10 **Nenad Milošević**, *Ben-Gurion University of the Negev, Israel*

Which protein(s) would be interesting to develop as long-acting injectables?

18:10-18:15 **Liat Soudry-Kochavi**, *The Hebrew University of Jerusalem, Israel*

Prime candidates for a medical breakthrough: which protein(s) would be interesting to develop as long acting injectables?

### 18:15-18:45 S11: SHORT PRESENTATIONS OF SELECTED POSTERS FROM SUBMITTED ABSTRACTS (Part 2)

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Chair: **Orit Shefi**, *Bar-Ilan University, Israel*

18:15-18:20 **Keren Turjeman**, *Yechezkel Barenholz, Hebrew University-Hadassah Medical School*

The pharmacokinetic profile of PEGylated steroidal liposomes demonstrates lack of accelerated blood clearance (ABC) phenomenon upon repeated injections: A case report

18:20-18:25 **Hen Popilski**, *David Stepensky, Ben-Gurion University of the Negev, Israel*

Cell penetration enhancer (CPE, DAG-Arg<sub>4</sub>) enhances doxorubicin liposomes penetration and pharmacological efficacy in 4T1 murine breast cancer model

18:25-18:30 **Aviram Avital**, *Avi Schroeder, Technion-Israel Institute of Technology, Israel*

Design and development of an anti-cancer agent targeting film

18:30-18:35 **Arnon Fluksman**, *Ofra Benny, The Hebrew University of Jerusalem, Israel*

Magnetic guiding and photochemically activation of silicon nanowires for local therapeutic effect

18:35-18:40 **Lior Levy**, *Marcelle Machluf, Technion-Israel Institute of Technology, Israel*

iNano-Ghosts: A cell-free nanometric system for off-the-shelf cancer immunotherapy

18:40-18:45 **Niels Dammes**, *Dan Peer, Tel Aviv University, Israel*

Targeting aberrantly activated leukocytes in inflammatory bowel disease

## Monday, October 8, 2018 (continued)

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18:45-19:45 POSTER SESSION

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19:45-20:30 *Break*

20:30 **GALA DINNER**

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- **Greetings:**
  - Prof. **Marcelle Machluf**, ICRS President
  - Dr. **Anh Nguyen**, Chairman of the Board of MedinCell - ICRS2018 Platinum Sponsor
- **Announcement of the winners at the MedinCell Open Innovation Essay Contest**
- **Announcement of the Best Poster Award winners:**
  - First Prize: sponsored by Dexcel Pharma
  - Second & Third Prizes: Sponsored by *the Itta & Alexander Peer Innovation Award*
- **Dinner and Entertainment**

## Tuesday, October 9, 2018

07:00-08:30 *Breakfast*

08:00-08:30 **ADMINISTRATIVE SESSION: General Assembly and election of ICRS President**

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08:30-10:10 **S12: GENE AND RNAi THERAPY AND VECTORS**

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Chair: **Avi Schroeder**, *Technion-Israel Institute of Technology, Israel*

08:30-09:10 **Stefaan De Smedt**, *Ghent University, Belgium*

**Keynote:** New physical and chemical approaches for the cytosolic delivery of bio-therapeutics and nanoparticles into cells

09:10-09:25 **Smadar Cohen**, *Ben-Gurion University of the Negev, Israel*

Targeted nanocarriers for the delivery of RNAi therapeutics

09:25-09:40 **Joseph Kost**, *Ben-Gurion University of the Negev, Israel*

Ultrasound mediated gene therapy

09:40-09:55 **Ciro Chiappini**, *King's College London, UK*

Nanoneedles for topical delivery to regulate gene expression *in vivo*

09:55-10:10 **Dan Peer**, *Tel Aviv University, Israel*

A modular platform for RNA therapeutics

## Tuesday, October 9, 2018 (continued)

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### 10:10-11:10 S13: TRANSLATIONAL NANOMEDICINE & BUSINESS DEVELOPMENT

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Chair: **Joseph Kost**, *Ben-Gurion University of the Negev, Israel*

10:10-10:25 **Abraham Domb**, *The Hebrew University of Jerusalem, Israel*  
Lipospheres: Solid lipid nanoparticles, opportunities and challenges

10:25-10:55 **Ron S. Kenett**<sup>1,2,3</sup>, **Abraham Rubinstein**<sup>1</sup>  
<sup>1</sup>*The Hebrew University of Jerusalem, Israel*, <sup>2</sup>*Technion-Israel Institute of Technology, Israel*,  
<sup>3</sup>*KPA Ltd, Israel*  
On reproducibility of research findings with generalizability methods: An example from translational medicine

10:55-11:10 **Goozy Hartog**, *LinkEdge Ventures and Medison Ventures, Israel*  
Commercial and regulatory perspective on the translation of advanced therapeutics

### 11:10-11:30 *Coffee Break & Exhibition*

### 11:30-12:30 S14: INDUSTRY (SPONSORED) SESSION

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Chair: **Abraham Domb**, *The Hebrew University of Jerusalem, Israel*

11:30-11:45 **Mark Behlke**, *Integrated DNA Technologies, USA*  
Mitigation of off-target effects in CRISPR genome editing

11:45-12:00 **Ayelet Ofarim**, *Arad-Ophir, CAS, Israel*  
Nanoparticles as controlled release drug delivery systems – A case study in SciFinder-n

12:00-12:15 **Helen Domeshek**, *Recipharm, Israel*  
Disruptive Innovation of the Drug Discovery and Development

12:15-12:30 **Quentin Vicard**, *Sartorius, France*  
How can we optimize the process development of a viral vector: Example for an Adeno Associated Virus?

### 12:30-13:30 *Light Lunch*

### 13:30-15:00 S15: MEET THE EDITORS (lecture followed by panel discussion)

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13:30-14:00 **Chiara Pastore**, *Springer Nature, UK*  
An insider view of Nature Nanotechnology

### 14:00-15:00 PANEL DISCUSSION:

*Panel Members:*

**Stefaan De Smedt**, Editor for Europe, *Journal of Controlled Release*

**Daniel Kohane**, Assoc. Editor, *NANO Letters*

**Dan Peer**, Assoc. Editor for Europe, *Journal of Controlled Release*

**Ron S. Kenett**, Editor, *Wiley StatsRef: Statistics Reference Online*

### 15:00-15:15 CONCLUDING REMARKS AND FAREWELL

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## POSTERS

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### Poster sessions will be held as follows:

Sunday, October 7 - 21:30 - 23:00 (includes beers & snacks)

Monday, October 8 - 13:00 - 14:30 lunch & poster viewing

Monday, October 8 - 18:45 - 19:45

### All posters will be displayed throughout the Meeting.

**Posters setup:** Sunday, October 7, 11:00 - 12:15

**Posters Removal:** Tuesday, October 9, by 11:15 (end of coffee break)

- P-1 **Marie Ruetter**, Ayelet David, *Ben-Gurion University of the Negev*  
E-selectin-targeted copolymers for inhibiting metastasis and attenuating inflammation in the tumor microenvironment
- P-2 **Nenad Milošević**, Ayelet David, *Ben-Gurion University of the Negev*  
Drug-free therapeutic copolymer for the treatment of diabetes
- P-3 **Shaked Bornstein**, Ayelet David, *Ben-Gurion University of the Negev*  
Design of new polymer cell- penetrating peptide conjugates for improvement of drug tumor penetration
- P-4 **Chen Benafsha-Berebi**, Joseph Kost, *Ben-Gurion University of the Negev*  
Targeted delivery of siRNA using Q-starch modified by cetuximab for head and neck cancer therapy
- P-5 **Yossi Blitsman**, Joseph Kost, *Ben-Gurion University of the Negev*  
Q-Starch as a carrier for PIP3 controlled release wound healing
- P-6 **Leah Shimonov**, Joseph Kost, *Ben-Gurion University of the Negev*  
Enhanced Q-starch/miRNA complexes penetration efficiency to the skin using multiple ultrasound exposures
- P-7 **Ifat Cohen-Erez**, Hanna Rapaport, *Ben-Gurion University of the Negev*  
The effect of Lonidamine- loaded Polypeptide-Peptide-NPs in a Murine Breast Cancer Model
- P-8 **Eden Bergman**, Itay Rouso, *Ben Gurion University of the Negev*  
Ultrasound as a mean for non-invasive selective skin cancer therapy
- P-9 **Hen Popilski**, David Stepensky, *Ben-Gurion University of the Negev*  
Cell penetration enhancer (CPE, DAG-Arg4) enhances Doxorubicin Liposomes Penetration and Pharmacological Efficacy in 4T1 Murine Breast Cancer Model
- P-10 **Chen Tzror-Azankot**, Rachela Popovtzer, *Bar-Ilan University*  
Highly specific Biocompatible Nanoparticles for differentiation between cancer and inflammation using conventional PET-CT
- P-11 **Michal Marcus**, Orit Shefi, *Bar-Ilan University*  
Magnetic targeting of growth factors using iron oxide nanoparticles
- P-12 Rubi Tel Ari<sup>1</sup>, Eyal Bressler<sup>2</sup>, **Joseph Wyse**<sup>2</sup>  
<sup>1</sup>*Reiness Animal Medical Centre, Tel Aviv, Israel*, <sup>2</sup>*Bressler IP, Israel*  
Hyper Osmotic Gel for the treatment and rehabilitation of acute & chronic skin defects
- P-13 **Joseph Wyse**<sup>2</sup>, Veronica Stahl<sup>1</sup>  
<sup>1</sup>*Euro Dent Belgie bvba, Mortsel, Belgium*, <sup>2</sup>*Bressler IP, Israel*  
Treatment of dental disease by Cannabinoid preparations

## POSTERS (continued)

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- P-14 **Maya Ben Yehuda Greenwald**, Sabine Werner, *ETH Zurich*  
Can an “optimized” Viagra accelerate cutaneous wound healing?
- P-15 **Keren Turjeman**, Yechezkel Barenholz, *Hebrew University-Hadassah Medical School*  
The pharmacokinetic profile of PEGylated steroidal liposomes demonstrates lack of accelerated blood clearance (ABC) phenomenon upon repeated injections: A case report
- P-16 **Yaelle Bavli**, Yechezkel Barenholz, *Hebrew University-Hadassah Medical School*  
Treatment of IgG4-related sclerosing disease by PEGylated nano-liposomal methylprednisolone succinate (MPS), a case report
- P-17 **Alex Andrianov**, Yechezkel Barenholz, *Hebrew University-Hadassah Medical School*  
Therapeutic Efficacy of Combined PEGylated Liposomal Doxorubicin and Radiofrequency Ablation: Comparing single and combined therapy on young and old mice
- P-18 **Ahuva Cern**, Yechezkel Barenholz, *Hebrew University-Hadassah Medical School*  
Nano-Mupirocin Injection: Parenterally Active Mupirocin
- P-19 **Liat Soudry-Kochavi**, Simon Benita, *The Hebrew University of Jerusalem*  
Oral delivery of Exenatide using solid nano-in-micro-particles
- P-20 **Arnon Fluksman**, Ofra Benny, *The Hebrew University of Jerusalem*  
Magnetic guiding and photochemically activation of silicon nanowires for local therapeutic effect
- P-21 **Nethanel Friedman**, Ofra Benny, *The Hebrew University of Jerusalem*  
Biodegradable nanoparticles for topical drug delivery into hair follicles
- P-22 **Lior Minkowicz**, Ofra Benny, *The Hebrew University of Jerusalem*  
Calcium Carbonate particles as template for drug delivery
- P-23 **Natalie Orehov**, Ofra Benny, *The Hebrew University of Jerusalem*  
Three-dimensional tumor spheroid models in cancer research
- P-24 **Moran Haim Zada**, Abraham Domb, *The Hebrew University of Jerusalem*  
Nose to brain delivery of nanoparticles of Thyrotropin Releasing Hormone (TRH)
- P-25 **Tovi Shapira-Furman**, Abraham Domb, *The Hebrew University of Jerusalem*  
Temozolomide and Carmustine biodegradable wafer for the treatment of brain cancer
- P-26 **Noam Steinman**, Abraham Domb, *The Hebrew University of Jerusalem*  
Programmable biodegradable thermoresponsive gels for cell therapy
- P-27 **Eliyahu Shmoeli**, Abraham Domb, *The Hebrew University of Jerusalem*  
ProNano-Liposphers (PNL) for improved oral bioavailability of cyclosporine
- P-28 **Mahran Daifa**, Abraham Domb, *The Hebrew University of Jerusalem*  
Iodixanol Injectable Polymer as Contrast Agent
- P-29 **David Kirmayer**, Michael Friedman, *The Hebrew University of Jerusalem*  
Floating Hard Egg Albumin Matrix Tablets with Gastroretentive Properties
- P-30 **David Kirmayer**, Michael Friedman, *The Hebrew University of Jerusalem*  
Eudragit®-based injectable implants as bone-fracture barrier membranes and depot for controlled release of drugs
- P-31 **David Kirmayer**, Michael Friedman, *The Hebrew University of Jerusalem*  
Injectable dental implants for controlled release of drugs

## POSTERS (continued)

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- P-32 **Hilary Shmeeda**<sup>1</sup>, Alberto Gabizon<sup>1,2,3</sup>  
<sup>1</sup>*Shaare Zedek Medical Center, Israel*, <sup>2</sup>*LipoMedix Pharmaceuticals Ltd., Israel*,  
<sup>3</sup>*The Hebrew University of Jerusalem*  
PROMIDOX: A dual drug liposomal formulation for improved chemotherapy of cancer
- P-33 Orli Binyamin, **Ruth Gabizon**, *Hebrew University- Hadassah Medical Center*  
Long-term administration of Nano-PSO (GranaGard) to 5xFAD mice prevented age-dependent cognition and long-term memory deterioration
- P-34 **Guy Keller**, Ruth Gabizon, *Hebrew University- Hadassah Medical Center*  
Delay of neurodegenerative disease by Nano-PSO (GranaGard) is associated with restoring normal mitochondrial function
- P-35 **Etty Grad**<sup>1,2</sup>, Gershon Golomb<sup>1</sup>  
<sup>1</sup>*The Hebrew University of Jerusalem, Israel*, <sup>2</sup>*Hadassah Hebrew University Medical Center, Israel*  
Monocyte modulation by liposomal alendronate improves cardiac function in a rat model of myocardial infarction
- P-36 **Mirjam M. Nordling-David**, Gershon Golomb, *The Hebrew University of Jerusalem*  
Liposomal drug delivery to the brain via monocytes
- P-37 **Gil Aizik**, Gershon Golomb, *The Hebrew University of Jerusalem*  
Monocyte-mediated liposomal delivery systems of quantum dots for the imaging of mammary carcinoma in mice
- P-38 **Doaa Jbara**, Gershon Golomb, *The Hebrew University of Jerusalem*  
Liposomal siRNA delivery against Herpes Simplex Virus-1
- P-39 **Racheli Sharon Gabbay**, Abraham Rubinstein, *The Hebrew University of Jerusalem*  
Synchronizing the release rates of salicylate and indomethacin from degradable chitosan hydrogel and its optimization by definitive screening design
- P-40 **Lih Ozery**, Roey J. Amir, *Tel Aviv University*  
Highly hydrophilic PEG-Dendron labeled hybrids
- P-41 **Merav Segal**, Roey J. Amir, *Tel Aviv University*  
Self-assembly of IDP-dendron hybrids
- P-42 **Nitsan Papo**, Roey J. Amir, *Tel Aviv University*  
Dual Enzymatic Activation of Polymeric Micelles
- P-43 **Gadi Slor**, Roey J. Amir, *Tel Aviv University*  
Tuning the molecular weight of polymeric amphiphiles as a tool to access micelles with a wide range of enzymatic degradation rates
- P-44 **Manu Smriti Singh**, Dan Peer, *Tel Aviv University*  
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