

Monday, October 15, 2007

08:00 - 09:00 Registration

09:00 - 09:30 Opening Remarks and Greetings

Hall A

Itamar Raz, President, D Cure
Julio Wainstein, President, Israel Diabetes Association
Jesse Roth, Chairman, Friends of D Cure, U.S.A.

09:30 - 10:30 S1 - Opening Session

Hall A

Chair: **Itamar Raz**

09:30 **An Ecological Approach to Diabetes - A World View**

Francine Kaufman

University of Southern California Children's Hospital, Los Angeles, CA, U.S.A

10:00 **Low- carbohydrate, Mediterranean and Low-fat Alternative Diets for Moderately Obese Adults - Preliminary Results of the 2-Year Dietary Intervention Randomized Controlled Trial (DIRECT)**

Iris Shai

Ben Gurion University, Beersheva, Israel

10:30 - 11:00 Coffee Break (Sponsored by Osem) & Exhibition

Foyer

11:00 - 12:30 S2 - Genetics and Epidemiology of Diabetes and Obesity

Hall A

Chair: **Benjamin Glaser**

11:00 **Breakthroughs in Diabetes, Obesity and Diabetes from Whole Genome Association Studies**

Philippe Froguel

Imperial College, London, UK, Pasteur Institute, Lille, France

11:30 **Asian Mitochondrial DNA (mtDNA) Haplogroup Associations with Type 2 Diabetes and Metabolic Syndrome**

Douglas Wallace

University of California, Irvine, CA, U.S.A

12:00 **The Pathogenetics of Diabetes: What Can We Learn from a Polygenic Mouse Model?**

Hans-Georg Joost

Potsdam-Rehbrücke, Nuthetal, Germany

PARALLEL SESSIONS (S3a-S3b)

14:00 - 16:00 **S3a - Obesity and Diabetes: Clinical Aspects and Novel Treatment Targets** Hall A

Chairs: **Micha Rapoport**
Boaz Hirshberg

14:00 **Diabetes Prevention in Israeli Primary Care Services**

Galit Kowen

Maccabi Healthcare Services- HaSharon District, Ramat Hasharon, Israel
(Sponsored by Maccabi Healthcare Services)

14:30 **Hyperinsulinemia in the Basal State is a Strong Predictor of Pathological Deterioration of Glucose Metabolism over a 24-Year Follow Up**

Rachel Dankner^{1,2}, Angela Chetrit¹, Itamar Raz³, Jesse Roth^{4,5}

¹ *Gertner Institute for Epidemiology and Health Policy Research, Ramat Gan, Israel,*
² *Tel Aviv University, Tel Aviv, Israel,* ³ *Hadassah Medical Center, Jerusalem, Israel,* ⁴ *North Shore Long Island Jewish Health System, New York, U.S.A,* ⁵ *Albert Einstein College of Medicine, New York, U.S.A*

14:45 **Lifestyle Intervention in Obese Arab Women at High Risk for Diabetes: Preliminary Results**

Ofra Kalter - Leibovici^{1,3}, Nuha Zaidan-Youniss^{2,3}, Flora Lubin¹, Ahmed Atamna², Daphna Gofer¹, Gershon Alpert²

¹ *Sheba Medical Center, Ramat Gan, Israel,* ² *Clalit Health Services, Hadera, Israel,*
³ *Tel Aviv University, Tel Aviv, Israel*

15:00 **Diabetes Mellitus and its Vascular Complications in Patients with Congenital IGF-I Deficiency**

Zvi Laron¹, Dov Weinberger²

¹ *Schneider Children's Medical Center, Petah Tikva, Israel,* ² *Rabin Medical Center, Beilinson Campus, Petah Tikva, Israel*

15:15 **Cannabidiol Lowers Incidence of Diabetes in Non-Obese Diabetic Mice**

Lola Weiss¹, Michael Zeira¹, Shoshana Reich¹, Rafi Mechoulam², Shimon Slavin¹, Itamar Raz¹, Ruth Gallily²

¹ *Hadassah Hospital, Jerusalem, Israel,* ² *Hebrew University Medical School, Jerusalem, Israel*

15:30 **Extended Alpha-1-Antitrypsin Monotherapy During Islet Allograft Transplantation in Mice Induces Strain-Specific Immune Tolerance**

Eli C Lewis^{1,3}, Leland Shapiro¹, Andrew Churg², Joanne L Wright², Charles A Dinarello¹

¹ *University of Colorado Health Sciences Center, Denver, CO, USA,* ² *University of British Columbia, Vancouver, Canada,* ³ *Ben Gurion University of the Negev, Beersheva, Israel*

14:00 - 16:00 S3a - Obesity and Diabetes: Clinical Aspects and Novel Treatment Targets (Cont.) Hall A

15:45 **Glycogen Synthase Kinase-3: A Novel Drug Discovery Target for Insulin Resistance and Type 2 Diabetes**

Hagit Eldar-Finkelman

Tel Aviv University, Tel Aviv, Israel

14:00 - 16:00 S3b - Pathophysiology and Pathogenesis of Obesity and Diabetes Hall B
Chairs: **Michael Walker**
Gordon Weir

14:00 **Phosphorylation of Insulin Receptor Substrates Proteins by Glycogen Synthase Kinase-3 Inhibits Insulin Signaling**

Ziva Liberman, Hadar Sharfi, Hagit Eldar-Finkelman

Tel Aviv University, Tel Aviv, Israel

14:15 **A Novel Domain Mediates Post-Ubiquitination, Insulin Induced Proteasomal Degradation of IRS-1**

Sigalit Boura-Halfon, Avital Beck, Liu Yan-Fang, Katia Petrovich, Denise Ronen, Yehiel Zick

Weizmann Institute of Science, Rehovot, Israel

14:30 **AHNAK - New Mediator of Insulin Action: Implications for GLUT4**

Dafna Rozentzweig- BenYosef¹, Michal Armoni², Chava Harel², Eddy Karnieli²

¹ *Technion Institute of Technology, Haifa, Israel*, ² *Rambam Medical Center and Technion Institute of Technology, Haifa, Israel*

14:45 **Characterization of Novel Human Adiponectin Receptor 1 Isoforms**

Reut Ashwal^{1,2}, Reut Rosenblum^{1,2}, Eleanor Yisaschar^{1,2}, Uri Nir², Avraham Karasik¹, Rina Hemi¹, Hannah Kanety¹

¹ *Sheba Medical Center, Tel Hashomer, Israel*, ² *Bar Ilan University, Ramat Gan, Israel*

15:00 **AMPK Activation by Long Chain Fatty Acids**

Rachel Hertz, Za'tara Ghadeer, Jacob Bar-Tana

Hebrew University Medical School, Jerusalem, Israel

15:15 **Exposure to Triglycerides Enhances the Inflammatory Response of Rat Kupffer Cells.**

Noga Budick¹, Jozsef Dudas², Zecharia Madar¹, Giuliano Ramadori², Oren Tirosh¹

¹ *The Hebrew University of Jerusalem, Rehovot, Israel*, ² *Georg August University, Goettingen, Germany*

15:30 **Regulation of the Thioredoxin Interacting Protein in Type 2 Diabetes**

Maayan Shaked, Mali Ketzinel Gilad, Erol Cerasi, Nurit Kaiser, Gil Leibowitz

Hadassah Hospital, Ein Kerem, Jerusalem, Israel

15:45 **Fetal Origins of Adult Metabolic Disease: the Role of Pancreatic Beta-Cells**

Miri Stolovich-Rain, Yuval Dor

The Hebrew University-Hadassah Medical School, Jerusalem, Israel

16:00 - 16:30 Coffee Break & Exhibition

Foyer

PARALLEL SESSIONS (S4a-S4b)

16:30 - 18:30 S4a - Novel Treatment Modalities in the Clinic and in the Pipeline (I) Hall A

Chairs: **Andreas Buchs**
Moshe Phillip

16:30 **Optimizing Glycemic Control Using Diabetes Therapy Management Software**

Tamir Nitzan

Medtronic Diabetes, Northridge, CA, U.S.A

(Sponsored by Medtronic)

17:10 **New Treatment Approach for Patients with Multiple Cardiometabolic Risk Factors**

Rafael Bitzur

Sheba Hospital, Tel Hashomer, Israel

(Sponsored by Sanofi-Aventis)

17:50 **The Use of TZD's in the Management of Type 2 Diabetes: Examining the Evidence**

Bernard Zinman

University of Toronto, Toronto, Canada

(Sponsored by GSK)

16:30 - 18:30 S4b - Beta-Cell Survival and Function: Role of Lipids and Cytokines Hall B

Chairs: **Nurit Kaiser**
Alain Ktorza

16:30 **Update from a Limited Trial of PET Based Beta-Cell Imaging**

Paul Harris

Columbia University, New York, U.S.A

17:00 **Lipid Induced Beta-Cell Dysfunction: Role of Oxidative Stress**

Adria Giacca

University of Toronto, Toronto, Canada

17:30 **Islet Inflammation in Type 2 Diabetes: Mechanisms and Therapeutic Implications**

Marc Donath

University Hospital Zurich, Zurich, Switzerland

18:00 **What is the Real Beta-Cell? Multiple Faces Emerging**

Gordon C Weir

Harvard Medical School, Boston, U.S.A

19:30 Gala Dinner a round the pool

Tuesday, October 16, 2007

08:00 - 08:30 Registration

08:30 - 10:30 S5 - Regulation of Energy Metabolism Hall A

Chairs: **Eddy Karnieli**
David Cummings

08:30 **Leptin Resistance: Genetic, Anatomic and Functional Paradigms**

Robert Lustig

University of California Children's Hospital, San Francisco, CA, U.S.A

09:00 **Brain Fatty Acid Sensing and Nervous Control of Energy Homeostasis**

Christophe Magnan

University of Paris, Paris, France

09:30 **Ghrelin and the Regulation of Food Intake, Body Weight and Glucose Homeostasis**

David Cummings

University of Washington, Seattle, WA, U.S.A

10:00 **Novel ACTH/MSH-like Peptide of E. coli Rescues Mice from Lethal Sepsis and Ameliorates Experimental Colitis**

Jesse Roth

Albert Einstein College of Medicine and North Shore Long Island Jewish Health System, New York, NY, U.S.A

10:30 - 11:00 Coffee Break (Sponsored by Osem) & Exhibition

Foyer

PARALLEL SESSIONS (S6a-S6b)

11:00 - 13:00 S6a - Novel Treatment Modalities in the Clinic and in the Pipeline (II) Hall A

Chairs: **Anat Tzur**
Julio Weinstein

11:00 **Incretin Hormones and DPP-4 Inhibitors in Clinical Practice**

Tina Vilsboll

Gentofte Hospital, Hellerup, Denmark

(Sponsored by MSD)

11:40 **The Efficacy and Safety of Inhaled Human Insulin**

Sol S. Klioze

Pfizer Global Research & Development, New London, CT, U.S.A

(Sponsored by Pfizer)

12:20 **11 Beta Hydroxysteroid Dehydrogenase Type 1 Inhibitor (11betaHSD1): A New Therapeutic Target for Diabetes and Obesity**

Boaz Hirshberg

Pfizer Global Research & Development, Groton, CT, U.S.A

(Sponsored by Pfizer)

11:00 - 13:00 S6b - Adipocytes - Diabetes

Hall B

Chairs: **Hannah Kanety**
Philippe Scherer

11:00 **Adipose Tissue: From Blubber to Endocrine Organ**

Philipp E Scherer

University of Texas Southwestern Medical Center, Dallas, TX, U.S.A

11:30 **Do Novel Adipokines Link Visceral Fat Mass to Insulin Resistance?**

Matthias Blueher

University of Leipzig, Leipzig, Germany

12:00 **Signalling Downstream of the Adiponectin Receptors**

Lily Dong

University of Texas Health Science Center, San Antonio, TX, U.S.A

12:30 **Beta-Cell Fatty Acid Receptors: a Link Between Obesity and Diabetes ?**

Michael Walker

Weizmann Institute of Science, Rehovot, Israel

13:00 - 14:00 Lunch

Dekel Hall

Lunch with Jesse and Friends: Planning a Career in Diabetes Research

Special lunch meeting with Jesse Roth, Michael Walker and others.

Open to students and post-docs.

Will take place in the Alon Hall

PARALLEL SESSIONS (S7a-S7b)

14:00 - 16:00 S7a - Novel Treatment Modalities in the Clinic and in the Pipeline (III) Hall A

Chairs: **Tommy Herskovitz**
Ilan Shimon

14:00 **Gastric Contractility Modulation (Tantalus® System): a New and Unique Treatment for Type 2 Diabetes.**

Harold Lebovitz

Health Sciences Center, Brooklyn, NY, U.S.A

(Sponsored by MetaCure)

14:40 **Incretins, the New Paradigm in the Treatment of Diabetes- Clinical Experience**

Yehuda Handelsman

Metabolic Institute of America, Tarzana, CA, U.S.A

(Sponsored by Eli Lilly)

15:20 **Breaking the Cycle of Obesity with Novel Treatment of Diabetes**

Abraham Karasik

Sheba Medical Center, Tel Hashomer, Israel

(Sponsored by Novo Nordisk)

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14:00 - 16:00 S7b - Adipose Tissue Macrophages Hall B
Chairs: **Assaf Rudich**
Ilana Harman

14:00 **Obesity-Associated Adipocyte Lipolysis, Death, and Adipose Tissue Inflammation**
Andrew Greenberg
Tufts University, Boston, MA, U.S.A

14:30 **Obesity, Diabetes and Adipose Tissue Macrophage Polarization**
Alan Saltiel
University of Michigan, Ann Arbor, MI, U.S.A

15:00 **Molecular Determinants of Adipocyte-Phagocyte Cell Interaction**
Rachel Levy
Ben Gurion University of the Negev, Beersheva, Israel

15:30 **Panel Discussion**

16:00 - 16:30 Coffee Break & Exhibition Foyer

16:30 - 18:00 S8 - Prevention and Treatment of Human Obesity and Diabetes - Present and Future Hall A
Chairs: **Ram Weiss**
Robin Goland

16:30 **Type 2 Diabetes: Is It An Operable, Intestinal Disease?**
Francesco Rubino
Catholic University of Rome, Rome, Italy

17:00 **Childhood Obesity: Prevention and Treatment**
Francine Kaufman
University of Southern California Children's Hospital, Los Angeles, CA, U.S.A

17:30 **Adult-Type Diabetes in the Young: Type 2 Diabetes in Adolescents**
Robin Goland
Naomi Berrie Diabetes Center, Columbia University Medical School, New York, NY, U.S.A

18:00 - 18:15 Closing Remarks Hall A
Benjamin Glaser

Posters

- 1 **Genetic Analysis of MODY Patients in Israel**
Eti Stern^{1,2}, Claris Strihan², Olga Potievsky^{1,2}, Revital Nimri¹, Shlomit Shalitin¹,
Ohad Cohen³, Naim Shehadeh⁴, Naomi Weintrob¹, Moshe Phillip^{1,2},
Galia Gat-Yablonski^{1,2}
¹ *Schneider Children's Medical Center of Israel, Petah Tikva*, ² *Felsenstein Medical
Research Center, Petah Tikva*, ³ *Sheba Medical Center, Tel Hashomer*, ⁴ *Rambam
Medical Center, Haifa*
- 2 **Relationship of Adiposity to Biochemical Values and C-reactive Protein Concentration
in Mountainous Cypriot Children: The CyFamilies Study**
Chrystelleni Lazarou¹, Marilena Photiou²
¹ *Harokopio University, Athens, Greece*, ² *Kyperounta Elementary School, Limassol,
Cyprus*
- 3 **Prevalence of Obesity by Anthropometry and Bioelectric Impedance Analysis, in
Cypriot Children: The CyFamilies Study**
Chrystelleni Lazarou¹, Marilena Photiou²
¹ *Harokopio University, Athens, Greece*, ² *Kyperounta Elementary School, Limassol,
Cyprus*
- 4 **High Complex Carbohydrate Diet Reduces Inflammation in Overweight Apparently
Healthy Subjects**
Olga Raz^{1,2}, Tovit Rosenzweig², Itzhak Shapira¹, Ori Rogowski¹, Shlomo Berliner¹
¹ *Sourasky Medical Center, Tel Aviv, Israel*, ² *The College of Judea and Samaria,
Ariel, Israel*
- 5 **Anti Inflammatory Effect of High Complex Carbohydrate Diet and Physical Activity
in Severely Obese Volunteers**
Olga Raz^{1,2}, Ori Rogowski¹, Tovit Rosenzweig², Itzhak Shapira¹, Nitzan Maharshak¹,
Yair Karni³, Shlomo Berliner¹
¹ *Sourasky Medical Center, Tel Aviv, Israel*, ² *The College of Judea and Samaria,
Ariel, Israel*, ³ *Physical Activity Center, Kfar Saba, Israel*
- 6 **Prevention of Osteoporosis in Postmenopausal Obese Women**
Elena Giorgadze^{1,2}, Marina Tsagareli^{1,2}, Nana Tsagareli¹, Ketevan Asatiani¹,
Vasil Chachibaia¹
¹ *4th Clinical Hospital, Tbilisi, Georgia*, ² *Tbilisi State University, Tbilisi, Georgia*
- 7 **BMI During Adult Life as a Predictor of Type-2 Diabetes Morbidity and All Cause
Mortality**
Rachel Dankner^{1,2}, Angela Chetrit¹, Itamar Raz³
¹ *Gertner Institute for Epidemiology and Health Policy Research, Ramat Gan, Israel*,
² *Tel Aviv University, Tel Aviv, Israel*, ³ *Hadassah Medical Center, Jerusalem, Israel*
- 8 **Insulin Receptor and the Insulin-Like Growth Factor-1 Receptor: Similar Structures
but Different Functions in Skin**
Naama Warman, Mariana Sadagurski, Galina Weingarten, Efrat Wertheimer
Tel Aviv University, Tel Aviv, Israel

Posters (Cont.)

- 9 **Insulin-Induced Increase in Nuclear Insulin Receptor Expression is Mediated by Protein Kinase C (PKC) Delta**
Dov Kesten, Miriam Horovitz-Fried, Sanford R Sampson
Bar Ilan University, Ramat Gan, Israel
- 10 **Insulin Induces Degradation of Protein Kinase C Delta Via the Ubiquitin-Proteasome Pathway**
Chagit Brand-Lenchner, Miriam Horovitz-Fried, Sanford R Sampson
Bar Ilan University, Ramat Gan, Israel
- 11 **A Unique Effect of Insulin: Induction of PKC Delta Protein Synthesis in the Nucleus**
Miriam Horovitz-Fried, Tamar Brutman-Barazani, Sanford R Sampson
Bar Ilan University, Ramat Gan, Israel
- 12 **Glucose Tolerance Factor Phosphorylates Key Proteins Along Insulin Signaling Pathway**
Nitsa Mirsky, Tal Mizrahi, Moran Zarfate
University of Haifa, Tivon, Israel
- 13 **Crosstalk Between Inflammation and Insulin Resistance in Insulin Target Tissues: NFkB Represses GLUT4 Gene Promoter**
Shiri Karni Ashkenazi¹, Michal Armoni², Chava Harel², Gershon Volpin^{3,1},
Simcha Milo², Eddy Karnieli²
¹ *Technion Institute, Haifa, Israel*, ² *Rambam Medical Center and Technion Institute, Haifa, Israel*, ³ *Western Galilee Medical Center, Naharia, Israel*
- 14 **Macrophage Activation in Fat Precedes the Development of Diet-Induced Insulin Resistance**
Hagit Shapiro, Yi Huang, Jongsoon Lee, Steven E Shoelson
Harvard Medical School, Boston, MA, USA
- 15 **ErbB Receptors Signaling Networks Have a Causal Role in Liver Insulin Resistance**
Ehud Barhurdar^{1,2}, Yafit Rachminov^{1,2}, Michal Kasher-Meron¹, Uri Nir², Avi Karasik¹,
Rina Hemi¹, Hannah Kanety¹
¹ *Sheba Medical Center, Tel Hashomer, Israel*, ² *Bar Ilan University, Ramat Gan, Israel*
- 16 **Evaluating the Anti-Diabetic Effects of Sarcopoterium Spinosum Extract In-Vitro**
D Taler, T Rosenzweig
The College of Judea and Samaria, Ariel, Israel
- 17 **Insulin Increases Apoptosis Induced by Oxidative Stress in Pancreatic Beta-Cells**
Shimrit Frankel, Miriam Horovitz-Fried, Chaya Brodie, Sanford R Sampson
Bar Ilan University, Ramat Gan, Israel

Posters (Cont.)

- 18 **mTOR Inhibition Prevents beta-cell Adaptation to Hyperglycemia And Exacerbates The Metabolic State in Type 2 Diabetes**
Merav Fraenkel¹, Mali Ketzinel-Gilad¹, Yafa Ariav¹, Orit Pappo¹, Melis Karaca², Julien Castel², Marie-France Berthault², Christophe Magnan², Erol Cerasi¹, Nurit Kaiser¹, Gil Leibowitz¹
¹ Hadassah - Hebrew University Medical Center, Jerusalem, Israel, ² University of Paris, Paris, France
- 19 **The Effects of Antidepressants (SSRIs) on Insulin Resistance, Insulin Secretion and Beta-Cell Death**
Roi Isaac^{1,3}, Sigalit Boura-Halfon², Diana Gurevitch², Denise Ronen², Yehiel Levkovitz³, Yehiel Zick²
¹ Bar Ilan, Ramat Gan, Israel, ² weizmann, Rehovot, Israel, ³ Shalvata Mental Health Care, Hod Hasharon, Israel
- 20 **In Vivo Salicylate Treatment Prevents Beta-Cell Dysfunction Induced by Prolonged Lipid Infusion: A Potential Role for Inflammation in Beta-Cell Lipotoxicity**
Andrei Oprescu, Ping Han, Edward Park, Loretta Lam, Gary Lewis, Adria Giacca
University of Toronto, Toronto, ON, Canada
- 21 **High Glucose Concentrations Modify the Effects of Leptin and Adiponectin on Pancreatic Beta-Cell Function**
Guila Abitbol^{1,2}, Sanford R Sampson², Tovit Rosenzweig¹
¹ The College of Judea and Samaria, Ariel, Israel, ² Bar Ilan University, Ramat Gan, Israel
- 22 **Identification of a Novel Mechanism of Transcription Regulation In Beta-Cells**
Keren Bahar, Reut Bartoov-Shifman, Michael D Walker
Weizmann Institute of Science, Rehovot, Israel
- 23 **Regulation of GPR40 Gene Expression by Leptin**
Gabriela Ridner, Tatyana Zalogin, Reut Bartoov-Shifman, Michael Walker
Weizmann Institute of Science, Rehovot, Israel
- 24 **Phosphorylation of Selected Serines in the PTB Domain of IRS-2 Inhibits Its Function and Promotes Insulin Resistance under Pathological Conditions**
Diana Gurevitch, Sigalit Boura-Halfon, Avital Bek, Denise Ronen, Yehiel Zick
Weizmann Insitute of Science, Rehovot, Israel
- 25 **Postnatal Sex Steroid Exposure of Female Rats Results in Insulin Resistance and Altered Size Distribution of Adipocytes**
Camilla Alexanderson, Theodore Lystig, Elisabet Stener-Victorin, Malin Lonn, Agneta Holmang
Sahlgrenska Academy, Goteborg University, Goteborg, Sweden

Posters (Cont.)

- 26 **Changes in Expression of Hypothalamic Fat Regulating Neuropeptides in IL-1RI Knockout Mice: a Model of Mature-Onset Obesity**
Louise Strandberg, Emil Egecioglu, Maria Enge, John-Olov Jansson
Sahlgrenska Academy, Gothenburg University, Gothenburg, Sweden
- 27 **Gender Differences in Early Anti Obesity Programming Achieved by Different Early Interventions in OLETF Rats**
Mariana Schroeder¹, Liat Shbiro¹, Vered Gelber¹, Tim H Moran², Aron Weller¹
¹ *Bar Ilan University, Ramat Gan, Israel*, ² *Johns Hopkins University School of Medicine, Baltimore, MD, USA*
- 28 **Increased Metabolic Rate in Rag1 Deficient Mice with an Impaired Adaptive Immune System**
Anna Berndtsson, Maria Enge, Erik Schele, Maria Garcia, John-Olov Jansson
Gothenburg University, Gothenburg, Sweden
- 29 **CD44-mediated Apoptotic Signaling Enhances Type-1 Diabetes in NOD Mice?**
Nathalie Assayag-Asherie¹, Lora Eshkar-Sebban¹, Lola Weiss², Eli Pikarsky³, Itamar Raz³, David Naor¹
¹ *Hebrew University-Hadassah Medical School, Jerusalem, Israel*, ² *Hadassah University Hospital, Jerusalem, Israel*, ³ *Hadassah Hospital, Jerusalem, Israel*
- 30 **Low Frequency Electro-acupuncture and Physical Exercise Improves Insulin Sensitivity in Female Rats with Dihydrotestosterone Induced Polycystic Ovary Syndrome**
Louise Manneras, Malin Lonn, Elisabet Stener-Victorin
Sahlgrenska Academy, Goteborg University, Gothenburg, Sweden
- 31 **Long-time Ethanol Feeding Decreases Glycogen in Liver and Damages Its Structure in Wistar Rats**
Shaohua Chen¹, Jiajun Zhao², Li Feng¹, Xiaolei Hou², Wei Zhang¹, Hui Yu¹, Ling Gao²
¹ *Qian Fo Shan Provincial Hospital, Jinan, China*, ² *Shandong Provincial Hospital, Jinan, China*
- 32 **Triacylglycerols-Induced Oxidative Stress Leads to Mitochondrial Dysfunction Followed by Hepatocyte Necrotic Cell Death**
Erez Ilan, Ofir Bachar, Oren Tirosh, Zecharia Madar
Faculty of Agricultural, Food and Environmental Quality Sciences, Rehovot, Israel
- 33 **The Effect of Diabetes and Radiocontrast Media on Renal Expression of Endothelin Converting Enzyme-1: In Vivo and In Vitro Studies**
Mogher Khamaisi¹, Itamar Raz¹, Christian Rosenberger², Rachel Dahan¹, Rina Meidan³, Zaid Abassi⁴, Samuel Heyman¹
¹ *Hadassah Hospitals, Ein Kerem and Mt. Scopus, and the Hebrew University Medical School, Jerusalem, Israel*, ² *Charit Hospital University Clinic, Berlin, Germany*, ³ *Faculty of Agricultural, Food and Environmental Quality Sciences, The Hebrew University of Jerusalem, Rehovot, Israel*, ⁴ *Technion Medical School, Haifa, Israel*