THE 10TH CONGRESS OF THE INTERNATIONAL SOCIETY of NUTRIGENETICS & NUTRIGENOMICS

ISNN
22-26.5.2016
Tel Aviv, Israel

FEEDING OUR GENES

PROGRAM BOOK

Organized by The Research Center for Nutrigenomics and Functional Foods, The Hebrew University of Jerusalem

www.ortra.com/events/isnn2016
Dear Friends,

Welcome to Tel Aviv. On behalf of the International Society of Nutrigenetics/Nutrigenomics and the Center of Nutrigenomics and Functional Foods of the Hebrew University, we are delighted to welcome you to the 10th Annual Meeting of ISNN. We have compiled a scientific program which includes cutting edge and latest discoveries in all related, most fast moving disciplines of nutrigenetics and nutrigenomics.

We look forward to an exciting and productive meeting and encourage you to exchange ideas and share your expertise with other researchers in discussions during the plenary presentations, breakout meetings, and poster sessions. We thank you for lending your knowledge, creativity, and vision to this meeting.

We very much hope that you will enjoy your stay in Tel Aviv and benefit from exciting scientific interactions, as well as from the social program, the professional tours and the breeze of the Mediterranean Sea.

Ram Reifen, Congress President
Zohar Kerem, Chair Organizing Committee

Organizing and International Advisory Committee

Zohar Kerem, Israel – Chair
Raffaele De Caterina, Italy
Mikros Emmanuel, Greece
Rosita Gabbianelli, Italy
Bruce German, USA
Dirk Haller, Germany
Jing Kang, USA
Omry Koren, Israel
Alfredo Martinez, Spain
Michael Muller, UK
Hermona Soreq, Israel
<table>
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<tr>
<th>Time</th>
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<tr>
<td>08:00-08:30</td>
<td>Morning gathering with Light breakfast</td>
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<td>Sponsored by</td>
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| 08:30-15:20| Translational Nutrigenomics Workshop | Israel A Hall  
|            | Chairs: Baukje De Roos, University of Aberdeen, UK  
|            | Dana Weiner, Sheba Medical Center, Israel                              |
| 08:30-08:45| Opening Remarks                                                        |
| 08:45-09:30| Translational Nutrigenomics: Reshaping the Nutrition Landscape          |
|            | Yael Joffe, Manuka Science, South Africa                                |
| 09:30-10:00| Moving From Population Advice to Personalized Advice: The Need for Big  |
|            | Datasets to Find Out How Genotypes and Metabotypes Can Contribute To a  |
|            | Desired Phenotype                                                      |
|            | Baukje de Roos, University of Aberdeen, UK                            |
| 10:00-10:30| Harnessing Nutrigenomics to Favorably Modify Cellular Defense: Redefining  |
|            | Antioxidant Concepts                                                   |
|            | Christine Houghton, Cell Logic, Australia                              |
| 10:30-11:00| Coffee Break & Visit the Exhibition                                    |
|            | RAFFLE – two sets of My Bio genetic analysis kits – MyBio - Customize your lifestyle |
| 11:00-11:30| Personalized Nutrition for Obesity Management                         |
|            | Alfredo Martinez, Institute of Nutrition at the University of Navarra, Spain |
| 11:30-12:00| Moving Towards Specific Nutrigenetics Recommendation Algorithms: Caffeine,  |
|            | Genetic Variation and Cardiovascular Risk                              |
|            | Raffaele De Caterina, University of Chieti, Italy                     |
| 12:00-12:30| The Food4Me Studies – Implications for Personalized Nutrition          |
|            | Lorraine Brennan, UCD Institute of Food and Health, Ireland           |
| 12:30-12:50| Epigenetics – The Missing Piece in the Food Allergy Puzzle             |
|            | Shimrit Barel, The Hebrew University of Jerusalem, Israel              |
| 12:50-13:50| Lunch & Visit the Exhibition                                          |
| 13:50-14:35| Nutritional Genomics of the Mediterranean Diet: A Dietary Pattern That “Talks” to Our Genes |
|            | Valentini Konstantinidou, DNANutricoch, Spain                         |
| 14:35-15:20| Panel Discussion, Conclusions, Future Perspectives                    |
|            | Yael Joffe, Manuka Science, South Africa                              |
|            | Baukje de Roos, University of Aberdeen, UK                           |
|            | Dana Weiner, Sheba Medical Center, Israel                            |
| 15:20-16:30| Coffee Break & Visit the Exhibition                                   |
16:30-18:35  Innovation: From Academia To Market  |  Israel A Hall

How to make the courageous move from research to applicable product with commercialization potential

Chairs: Martha Butler, Universidad Nacional Evangélica, Dominican Republic
Zohar Kerem, The Hebrew University of Jerusalem, Israel

16:30-17:00  SNC’s Innovation Talk:
The Future of Nutrition and Health: What’s Next for the Start-Up Nation
Saul Singer, Co-author, Start-Up Nation, Israel

17:00-17:40  Experts Panel
Moderator: Anna Phillips, Start-Up Nation Central, Israel
Panel:
• Academia  |  Michal Levi, Yissum, Israel
• NGO  |  Sivan Yaari, Innovation Africa, Israel
• Investor  |  Nadav Berger, Founder and CEO of FoodLab Capital, Israel
• Industry/abroad  |  Peter Jones, Head of Danone Canada Research Center, Canada

17:40-17:55  From Grain to Brain
Sponsored by
Zohar Kerem, The Hebrew University of Jerusalem, Israel

17:55-18:25  Companies / Research Projects Showcase
Presenters:
• Research stage
  Genetic Improvement of Sesame: Nutrient Content and Bioavailability
  Zvi Peleg, The Hebrew University of Jerusalem, Israel
• Early stage startup
  Seaweed – not just sushi, Novel Aquaculture Technology
  Moshe Rivosh, Seakura, Israel
• Companies with product and sales
  Yael Lichter, Enzymotec, Israel
• Established
  Traits and Properties Control of Bulk Tank Milk (cooperation with research at Volcani, ARO)
  Gil Katz, Afimilk, Israel

18:25-18:35  Agroinnovation Fund & Concluding Remarks
Ido Schechter, Yissum Fund, The Hebrew University of Jerusalem, Israel

19:20-21:30  Opening Cocktail Party  |  Exhibition Hall
MONDAY, MAY 23

07:30-08:30  Meet the Expert I  | Galil Hall
Alfredo Martinez, University of Navarra, Spain
Yael Joffe, Manuka Science, South Africa
Sponsored by dnaLife

07:30-08:30  Meet the Expert II  | Golan Hall
Peter Jones, University of Manitoba, Canada
Bruce German, University of California Davis, USA

08:00-09:00  Light Breakfast & Visit the Exhibition

09:00-11:05  SESSION I  | Israel A Hall
From Human Genes to Lipid Metabolism
Chairs: Hermona Soreq, The Hebrew University of Jerusalem, Israel
Amit Ganor, Atid Association, Israel

09:00-09:30  The Importance of Protecting the Brain During Liver Disease
Christopher Rose, Université de Montréal, Canada

09:30-10:00  Cholinergic-targeting microRNAs as Regulators of Brain-To-Body Metabolic Signaling
Hermona Soreq, The Hebrew University of Jerusalem, Israel

10:00-10:10  Changes in Cardiotrophin-1 Serum and PBMC Expression Levels after a Weight Loss Program in Obese Children
Amelia Marti, University of Navarra, Spain

10:10-10:25  Possible Effect on Atherosclerosis through Regulatory T Cells
Jacob George, Kaplan Medical Center, Israel

10:25-10:40  MicroRNA-132 Is a Suppressible Regulator of Hepatic Lipid Accumulation and Hyperlipidemia
Geula Hanin, The Hebrew University of Jerusalem, Israel

10:40-10:55  Carbohydrate Intake and Physical Activity Levels Modify the Association between FTO Gene Variants and Obesity and Type 2 Diabetes: First Nutrigenetics Study in an Asian Indian Population
Vimal Karani, Hugh Sinclair Unit of Human Nutrition, UK

10:55-11:05  Conclusions
Hermona Soreq, The Hebrew University of Jerusalem, Israel
Amit Ganor, Atid Association, Israel

11:05-11:30  Coffee Break, Visit the Exhibition & Poster Viewing
MONDAY, MAY 23

09:00-11:05 Parallel Session – Oral Presentations | Golan Hall

Chairs: Yael Joffe, Manuka, South Africa
Ido Braslawski, The Hebrew University of Jerusalem, Israel

09:00-09:10 GLUT14 (SLC2A14): Genomic Locus, Tissue Expression and Glucose Transport
Peter Eck, University of Manitoba, Canada

09:10-09:20 Nutritional Quality of Novel Genotypes of Freshwater Prawn, Macrobrachium vollenhovenii (Herklots, 1857)
Oyediran Olusegun Oyebola, University of Ibadan, Nigeria

09:20-09:30 Interactions between Vitamin Status and Gene-Variants in the Folate and Homocysteine Pathway Influence Cognitive Outcomes in A Cross-Sectional Multi-Ethnic Cohort
Aron Troen, The Hebrew University of Jerusalem, Israel & Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University, USA

09:30-09:40 Personal Breast Milk Nutritional Profiling – What, Why and When?
Ravid Shechter, Mymilk Laboratories, Israel

09:40-09:50 The Nutritional Basis of Altered DNA Methylation in AD
Andrea Fuso, Sapienza University of Rome, Italy

09:50-10:00 Essential Oils for Parkinson’s Disease
Anat Helman, Agricultural Research Organization (ARO), Israel

10:00-10:10 Nutrition, Mammographic Breast Density and Molecular Types of Breast Cancer, an Overview
Magda Johanna Vandeloo, ECP Organization and Hasselt University, Belgium

10:10-10:20 Polymorphisms and Folate Metabolism: Genetic Risk Score to Predict Plasma Homocysteine and Lipid Profile in Adolescents with Cardiovascular Risks Factors
Cristiane Cominetti, Federal University of Goias, Brazil

10:20-10:30 Effects On Endothelial and Adipocyte Gene Expression and Function
Egeria Scoditti, CNR Institute of Clinical Physiology, Italy

10:30-10:40 Extracts From Mexican Ganoderma Lucidum Modulate the Cholesterol Metabolism and Show Prebiotic Effects on Mice Gut Microbiota
Maria E Meneses, Colegio de Postgraduados (CP), Mexico

10:40-11:05 Discussion
Moderators:
Yael Joffe, Manuka, South Africa
Ido Braslawski, The Hebrew University of Jerusalem, Israel

11:05-11:30 Coffee Break, Visit the Exhibition & Poster Viewing
MONDAY, MAY 23

11:30-13:45 SESSION II  |  Israel A Hall
The Nutrigenomics of Mediterranean Diets – From Epidemiology to Mechanistic Understanding
Sponsored by

Chairs: Raffaele De Caterina, University of Chieti, Italy
        Aliza Stark, The Hebrew University of Jerusalem, Israel

11:30-11:55 Disease Prevalence and Dietary Habits – The Epidemiological Basis for the Health Interest in Mediterranean Diets
Francesco Visioli, University of Padova, Italy

11:55-12:20 Is it the Vegetables and Fruits? Identifying the Components of the Mediterranean Diet that Modulate Gene Expression
Aliza Stark, The Hebrew University of Jerusalem, Israel

12:20-12:45 Nutritional Consequences of Polymorphism in Cyp 3A
Yelena Gutman, The Hebrew University of Jerusalem, Israel

12:45-13:05 How to Implement Mediterranean Dietary Recommendations
Paola Pittia, University of Teramo, Italy

13:05-13:30 The Mediterranean Diet Ingredients: Fatty Acids and Polyphenols
Maurizio Servili, Perugia, Italy

13:30-13:45 Panel discussion
Moderators:
        Raffaele De Caterina, University of Chieti, Italy
        Aliza Stark, The Hebrew University of Jerusalem, Israel

13:45-14:45 Lunch, Visit the Exhibition & Poster Viewing

Chair: Efrat Monsonego-Ornan, The Hebrew University, Israel
        Rosita Gabbianelli, University of Camerino, Italy

11:30-11:40 “Junk Food” Diet Inhibits Longitudinal Growth and Bone Quality through Impairment of Growth Plate Development in Young Rodents
Efrat Monsonego-Ornan, The Hebrew University of Jerusalem, Israel

11:40-12:00 Colostrum, and its Oxytocin, Attenuate ER-Stress and Inflammation Signaling Markers, in Rat Newborn Gut Villi
Benjamin Klein, Columbia University College of Physicians and Surgeons, USA

12:00-12:20 Maternal Diet Enrichment in Alpha Linolenic or Saturated Fatty Acids Differentially Regulates Gene Expression in Mice Offspring’s liver
Alicia Leikin Frenkel, Sheba, Tel Hashomer, Israel & Tel Aviv University, Israel
MONDAY, MAY 23

12:20-12:40 Should ‘Omics’ Education be a Part of Undergraduate Allied Health Profession Curricula? 
Chandan Prasad, Texas Woman’s University, USA

12:40-13:00 Are miRNA in Blood a Reflection of Physiological Conditions? 
Eckart Meese, University of Saarland, Germany

13:00-13:20 Discussion 
Moderators: Efrat Monsonego-Ornan, The Hebrew University of Jerusalem, Israel 
Rosita Gabbianelli, University of Camerino, Italy

13:45-14:45 Lunch, Visit the Exhibition & Poster Viewing

14:45-15:30 SESSION III | Israel A Hall 
Plenary Session 
Chair: Ram Reifen, The Hebrew University of Jerusalem, Israel

14:45-15:30 The First One Thousand Days – From Epidemiology to Nutrigenomics 
Zulfiqar A. Bhutta, The Hospital for Sick Children, Canada & The Aga Khan University, Pakistan

15:30-16:55 SESSION IV | Israel A Hall 
Biological Targets and Mechanisms of Action of Natural Products 
Chairs: Peter Jones, University of Manitoba, Canada 
David Terrero, Universidad Nacional Evangélica, Dominican Republic

15:30-15:45 Connecting the Dots: Bioengineering Legume Seeds with Enhanced Nutritional Composition using Systems Biology Approaches 
Jerome Verdier, Chinese Academy of Sciences (CAS), China

15:45-16:00 Securolida: Genomic Aspect of a Natural Antineoplastic New Drug and Its Pharmaceutical Development 
David Terrero, Universidad Nacional Evangélica, Dominican Republic

16:00-16:10 Anti-aging Effect of Marine Fish Oil and Polyunsaturated Fatty Acids Based on Redox State Regulation and Telomere Protection Mechanisms 
Jingnan Chen, Zhejiang University, China

16:10-16:35 Use of Combinatory SNP Patterns for Predicting Responsiveness of Biomarkers to Natural Products 
Peter Jones, University of Manitoba, Canada

16:35-16:55 Nutrigenomic Mechanisms Associated With Chemoprevention by Phytochemicals; a Clinical Perspective 
Christine Houghton, University of Queensland, Australia

16:55-17:15 Coffee Break, Visit the Exhibition & Poster Viewing
MONDAY, MAY 23

17:15-18:30 SESSION IV Continued | Israel A Hall

Biological Targets and Mechanisms of Action of Natural Products
Chairs: Paola Pittia, University of Teramo, Italy
        Oren Tirosh, The Hebrew University of Jerusalem, Israel

17:15-17:30 High Dose Phytochemicals in Clinical Trials: Friend or Foe?
Jeremy Johnson, University of Illinois at Chicago, USA

17:30-17:40 A Combination of Single-Nucleotide Polymorphisms Is Associated with
Interindividual Variability in Dietary Beta-Carotene Bioavailability in Healthy Men
Charles Desmarchelier, Aix-Marseille University, France

17:40-17:55 N-Acetyl-L-Cysteine Administration in Early Life Affect the Development of
Glucose Intolerance and Diabetes in Adulthood
Tovit Rosenzweig, Ariel University, Israel

17:55-18:15 Differential Inhibition of Oxidative Stress by Specific Cereal Grain Fractions:
In Vitro and In Vivo Studies
Trust Beta, University of Manitoba, Canada

18:15-18:30 Conclusions
Peter Jones, University of Manitoba, Canada
Paola Pittia, University of Teramo, Italy
TUESDAY, MAY 24

07:30-08:30 Meet the Expert III | Galil Hall
Baukje De Roos, University of Aberdeen, UK
Lorraine Brennan, University College Dublin, Ireland
Sponsored by

07:30-08:30 Meet the Expert IV | Golan Hall
Katie Hinde, Harvard University, USA
Michael Müller, Norwich Research Park, UK

08:00-09:00 Light Breakfast & Visit the Exhibition

09:00-11:00 SESSION V | Israel A Hall
Nutrigenomics Milk and Lactation
Sponsored by
Chair: Bruce German, University of California Davis, USA
Nutit Argov-Argaman, The Hebrew University of Jerusalem, Israel

09:00-09:20 Milk Bioactives
Nutit Argov-Argaman, The Hebrew University of Jerusalem, Israel

09:20-09:35 How Enrichment of Milk with Magnesium Can Improve Quality and Safety of Milk Products?
Moshe Shemesh, The Volcani Center, Israel

09:35-10:05 Lactation – Evolving Components of Health
Bruce German, University of California Davis, USA

10:05-10:35 Molecular Anthropology of Mothers and Infants
Katie Hinde, Harvard University, USA

10:35-11:00 Expression and Biological Function of miRNA in Breast Milk
Regina Golan-Gerstl, The Hebrew University of Jerusalem, Israel

11:00-11:30 Coffee Break, Visit at the Exhibition & Poster Viewing

11:30-14:00 SESSION VI | Israel A Hall
The Microbiome – New Addition to Our Tool Box
Chair: Michael Müller, The Norwich Research Park, UK
Omry Koren, Bar Ilan University, Israel

11:30-12:00 Systems Nutrition of the Food-Microbe-Host Interaction in the Gut-Liver Axis
Michael Müller, The Norwich Research Park, UK

12:00-12:10 Diet, the Microbiome and Behaviour
Hadar Neuman, Bar-Ilan University, Israel
TUESDAY, MAY 24

12:10-12:30 Fecal Microbiota Transplants - The Clinical Perspective
Ilan Youngster, Assaf Harofeh Medical Center, Tel-Aviv University, Israel

12:30-13:00 Emulsifiers in Food – And the Microbiome
Andrew Gewirtz, Georgia State University, USA

13:00-13:20 Personalized Nutrition
Eran Segal, Weizmann Institute of Science, Israel

13:20-13:40 Microbiome and Gut Function
Udi Ringel, Rabin Medical Center, Tel Aviv University, Israel

13:40-14:00 Impact Of Food Pesticides on the Gut Microbiota
Rosita Gabbianelli, University of Camerino, Italy

14:00-14:45 Lunch, Visit the Exhibition & Best Poster Announcement

14:00 Announcement of Best Posters – Exhibit Hall
Chair: Zvi Hayuka, The Hebrew University of Jerusalem, Israel
David Terrero, Universidad Nacional Evangélica, Dominican Republic

14:45-15:30 Plenary Session | Israel A Hall
Chair: Shimrit Bar-El, The Hebrew University of Jerusalem, Israel
Epigenetics & Nutrigenomics
Howard Cedar, The Hebrew University of Jerusalem, Israel

16:00-22:00 Gala Event (departure from Dan Panorama)

17:30 Old City Tour

19:30 Greetings
Menachem Ben Sasson, President, The Hebrew University of Jerusalem

19:40 Science as A Bridge between People
Zulfikar Bhutta, Hospital for Sick Children, Canada, The Aga Khan University, Pakistan

20:30 Night Spectacular – Sound and Light at the Citadel

21:15 Cocktail Party & live music

WEDNESDAY, MAY 25

08:00-18:30 Professional Tour: Olive Oil and Wine Production in Israel: Tel Aviv – Nazareth

THURSDAY, MAY 26

08:00-16:00 Professional Tour: Dairy Farms, Production & R&D Stations
## LIST OF POSTERS

1. **Myricetin Improves Endurance Capacity and Mitochondrial Function by Activating SIRT1 and PGC-1A**  
   Hoe-Yune Jung, Pohang University of Science and Technology (POSTECH) & NovMetaPharma, South Korea

2. **Angiotensin-Converting Enzyme (ACE) I/D Polymorphism Influences Body Composition through the Hydration Status in A Young Italian Population**  
   Laura Bordoni, University of Camerino, Italy

3. **Effects of Dietary Supplementation with Eicosapentaenoic Acid and/or α-Lipoic Acid on Adipose Tissue Transcriptome in Healthy Overweight/Obese Women**  
   J. Alfredo Martínez, University of Navarra & Instituto de Salud Carlos III & IdiSNA, Spain

4. **Prediction of Obesity Risk Through Three Genetic Risk Score (GRS) Models**  
   J. Alfredo Martínez, University of Navarra & Instituto de Salud Carlos III & IdiSNA, Spain

5. **DNA Methylation Levels of miR-1203, miR-412 and miR-216A Coding Sequences in White Blood Cells are Associated with Childhood Obesity**  
   J. Alfredo Martínez, University of Navarra & Instituto de Salud Carlos III & IdiSNA, Spain

6. **Influence of Oxygen Consumption on IL6 Promoter Methylation in PBMC from Obese Subjects with Sleep Apnea-Hypopnea Syndrome**  
   J. Alfredo Martínez, University of Navarra & Instituto de Salud Carlos III & IdiSNA, Spain

7. **Maresin 1 Improves the Inflammatory State in White Adipose Tissue of ob/ob Mice**  
   J. Alfredo Martínez, University of Navarra & Instituto de Salud Carlos III & IdiSNA, Spain

8. **Polymorphisms in PPARG, APOE and MTHFR Genes Are Related to Lipid Profile and ox-LDL in Adolescents with Cardiovascular Risk Factors**  
   Cristiane Comineti, Federal University of Goias, Brazil

9. **The Small Food Additive Molecule Acetoin Triggers Biofilm Formation by Prebiotic Bacteria**  
   Noa Ben-Ishay, The Volcani Center, Israel & The Hebrew University of Jerusalem, Israel

10. **Impact of Thermal Processing of Bovine Lactoferrin on Gut Microbiota**  
    Alice M. Moscovici, Technion – Israel Institute of Technology, Israel

11. **Influence of Gestational Diabetes on Metabolite Concentrations in Human Colostrum**  
    Ilana Chertok, University of North Carolina, USA

12. **Expression of MiRNAs Related to Obesity and Diabetes in Human Milk**  
    Yaffa Elbaum Shift, The Hebrew University of Jerusalem, Israel
13 The Study of the Association of Genetic Polymorphisms with Obesity in Children of Preschool and School Age: A Pilot Study
Nataliya Shilina, Institute of Nutrition, Russia

14 Microbiota Composition of Ugandan children Following Vitamin A Supplementation
Elina Manusevich Wiseman, The Hebrew University of Jerusalem, Israel

Egeria Scoditti, CNR, Italy

16 Anti-Inflammatory Nutrigenomic Effects of Hydroxytyrosol in Human Adipocytes - Protective Mechanisms of Mediterranean Diets in Obesity-Related Inflammation
Egeria Scoditti, CNR, Italy

17 Phosphodiesterase5A Up-regulation in Vascular Endothelium Under Pro-inflammatory Conditions: a Newly Disclosed Anti-inflammatory Activity for the ω-3polyunsaturated Fatty Acid Docosahexaenoic Acid
Egeria Scoditti, CNR, Italy

18 Vitamin A and Epigenetics
Alona Metz, The Hebrew University of Jerusalem, Israel

19 Using Prebiotic Bacterium Bacillus Subtilis to Enhance Growth and Survival of Probiotic Health Promoting Bacteria
Sagit Yahav, The Volcani Center, Israel & The Hebrew University of Jerusalem, Israel

20 Isoflavone Metabolizing Phenotypes Dictated By Diet in Men with Asymptomatic Prostate Cancer
Yael Vodovotz, The Ohio State University, USA

21 A Cereal Contaminant Affects Genome-Wide Expression in Kidney of Weanling Piglets
Daniela Marin, National Institute for Research and Development for Biology and Animal Nutrition, Romania

22 Effect of Microbial and Mycotoxin Co-contamination on Wide Genome Profile of Porcine Epithelial Intestinal Cells
Ionelia Taranu, National Institute for Research and Development for Biology and Animal Nutrition, Romania

23 Physical Activity Attenuates the Effect of the FTO rs9939609 Polymorphism on Obesity and Metabolic Syndrome in Lithuanian Adult Population
Alina Smalinskiene, Lithuanian University of Health Sciences, Lithuania
LIST OF POSTERS

24 Antiinflammatory and Antihyperglycemic Effects of Quercetin and Quercetin-3-O-glucoside in Cellular Models
Ana Laura de la Garza, Autonomous University of Nuevo Leon, Mexico

25 Fructose versus Sucrose Associated With Elevated Plasma Triglyceride and Glucose Levels: Preliminary Look To Developmental Programming
Yagmur Kaya, Hacettepe University, Turkey

26 Genetic Variants Influence HDL Subclass Distribution in Response to Dietary Cholesterol and Plant Sterol Consumption in a Hutterite Founder Population
Peter AS Alphonse, University of Manitoba, Canada

27 Fruit Consumption May Protect Against the Development of Intestinal Inflammation via Modification of Microbial Composition
Naomi Fliss-Isakov, Tel Aviv University, Israel

28 The Effects of Diet Contamination on Wide Genome Expression in Duodenum of Growing Pigs
Gina Cecilia Pistol, National Institute for Research and Development for Biology and Animal Nutrition, Romania

29 Omega-3 Deficiency Impairs Honey Bee Learning
Yael Arien, The Hebrew University of Jerusalem, Israel

30 Factors Influencing the Formation of Nisin and its Isolation from Whey and the Use of Antimicrobial Effects for Food, Cosmetic and Medical Applications
Jan Drbohlav, Vyzkumnny Ustav Mlekarensky, Czech Republic

31 A Methyl Balanced Diet Can Prevent Prenatal CRF Triggered Predisposition to Binge Eating/H3
Mariana Schroeder, Max-Planck Institute of Psychiatry, Germany & Weizmann Institute of Science, Israel

32 A Randomized Controlled Trial of a Gluten-Free Weight Loss Diet in HLA DQ2 or D8 Positive Subjects
Maria Vranceanu, Eurogenetica, UK

33 Effect of 3-Hydroxy-3-Methylbutyrate on Protein Metabolism in Whole Body and in Selected Tissues of Laboratory Rat
Milan Holecek, Faculty of Medicine, Charles University, Czech Republic

34 N-Acetyl-Cysteine (NAC) Supplementation Improves Insulin Sensitivity: a Personalized Recommendation is Required
Tovit Rosenzweig, Ariel University, Israel
LIST OF POSTERS

35  Insulin Sensitivity is improved by the Beduin Medicinal Plant, Sarcopoterium Spinosum
    Tovit Rosenzweig, Ariel University, Israel & Diabest Botanical Drugs, Israel

36  Developing Peptidic Inhibitors for E.Coli Mazf Toxin Protein
    Carmit Ginesin Tzela, The Hebrew University of Jerusalem, Israel

37  Consumption of Soy-Based Infant Formula is not associated with Early Onset of Pubertal Signs
    Tali Sinai, The Hebrew University of Jerusalem, Israel

38  Improving Agriculture Products Quality and Safety by Novel Antimicrobial Random Peptide Mixtures
    Tal Stern, The Hebrew University of Jerusalem, Israel

39  Interaction Effect of Genetic Variants in GC and DHCR7 and the Vitamin D Status on Blood Pressure and the Risk of Gestational Hypertension in Pregnant Women
    Jayong Chung, Kyung Hee University, South Korea