



**7<sup>th</sup>** International Conference on

**Diabetes & Obesity**

Strategies, Solutions & Challenges

October 24-25, 2013 – Riga, Latvia

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**Diabetes & Obesity**

*October 24-25, 2013 – Riga, Latvia*

*Organized in Collaboration between*



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7<sup>th</sup> International Conference on

# Diabetes & Obesity

*October 24-25, 2013 – Riga, Latvia*

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Dear Colleagues,

It is a great pleasure to welcoming you for the **7<sup>th</sup> World Congress on Diabetes & Obesity 2013** which will be held in **Riga, Latvia** on **October 24-25, 2013**.

Obesity has reached epidemic proportions globally, with more than 1 billion adults overweight - at least 300 million of them clinically obese - and is a major contributor to the global burden of chronic disease and disability. The obesity epidemic is not restricted to industrialized societies; this increase is often faster in developing countries than in the developed world.

Often coexisting in developing countries with under-nutrition, obesity is a complex condition, with serious social and psychological dimensions, affecting virtually all ages and socioeconomic groups.

Obesity and overweight pose also a major risk for serious diet-related chronic diseases, including type-2 diabetes, cardiovascular diseases, hypertension and stroke, and certain forms of cancer. The health consequences range from increased risk of premature death, to serious chronic conditions that reduce the overall quality of life. Of special concern is the increasing incidence of child obesity.

The last data from WHO and International Obesity Task Force show us a dramatic situation concerning the Worldwide prevalence of Obesity: over 300 million adults worldwide (WHO World Health Report, 2003). The prevalence of Obesity in USA: 39.8 million American adults; more than 57% of American adults are overweight (CDC). One-quarter of U.S. adults are obese (BMI 30).

## **Prevention & Treatments Strategies: Our Priority during Riga Congress**

In order to participate to slow down and stop the progression of this disease, Riga Diabetes & Obesity 2013 will discuss on the **latest therapeutic innovations**, the **new pathways** which will allow the development of new pharmaceutical treatments but also discuss **how to prevent diabetes and obesity** by using natural ingredients to prevent or fight against diabetes and obesity.

Riga Diabetes & Obesity 2013 aims also to launch **the discussion between the different actors** involved in the fight against obesity. It still remains that diabetes and obesity are multi-factorial problems, involving genetic, neurological, behavioral and cultural components, and as such, a long term solution to the problem is unachievable through single sector approach. Instead an integrated strategy is required, with input and close collaboration from all of the many different stakeholders involved - the food industry, governments and regulators, researchers, health professionals, the media, and of course consumers themselves.

## Among Sessions & Hot Topics of Riga Diabetes & Obesity 2013

- **Overview on Diabetes and Obesity in Europe and around the World**
  - *Where are we now? What we expect?*
  - *How to explain the failure to stop the epidemic of diabetes and obesity?*
- **Cellular & Molecular Targets to for Prevention & Therapies against Diabetes & Obesity**
- **Strategies in 2013 to Prevent and/or Treat Diabetes & Obesity**
  - *The prevention and treatment will be highlighted in term of strategies and solutions*
  - *New pharmaceutical drugs*
  - *New drugs to increase glucose excretion in urine*
  - *Non-pharmaceutical strategies*
- **Nutrition, Diabetes & Obesity: What we can say in 2013?**
  - *Medicalized food as a new window to personalized medicine*
  - *Innovations, products and nutraceuticals*
- **Microbiota, Diabetes & Obesity: 2013**
  - *The future of medicine to prevent diabetes and obesity will come through microbiota*
- **Diabetes, Obesity & Biotechnologies: the Non-Invasive Strategies**
  - *Non-invasive blood glucose monitoring*
  - *Challenges to tailor insulin of tomorrow: the non-invasive insulin*
  - *Challenges of bioartificial pancreas*
  - *Stem Cells, Diabetes & Obesities, When can we do it?*
  - *Diabetes & Telemedecine*

Looking forward welcoming you in October in Riga.

**Pr Marvin Edeas – Pr Andrejs Skesters**

Chairmen of the Scientific Committee

On behalf of Scientific Committee

**Pr Valdis Pirags  
Pr Lolita Neimane  
Pr Andreas Pfeiffer**

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## Scientific Program

### Day 1 - October 24

7h30 Opening of Registrations

9h00 Opening Riga Diabetes & Obesity World Conference by Professor Iveta Ozolanta, Vice-Rector for Sciences, Riga Stradins University

Welcome note by Scientific Committee: Pr M. Edeas, Pr V. Pirags, Pr L. Neimane, Pr A. Skesters

9h15 Diabetes & Obesity: Where is (are) the Target(s)?

*Marvin Edeas, President of ISANH and Congress Chairman, Paris, France*

#### Session 1: Overview on Diabetes and Obesity in Europe and around the World

*Chairs : Pr Marvin Edeas, Pr Valdis Pirags, Pr Andrejs Skesters*

9h45 Diabetes, Obesity & Cardiovascular Risk Factors: The Latvian Example

*Vilnis Dzerve, University of Latvia, Riga, Latvia*

10h15 Rheumatic Disorders in Patients with Diabetes Mellitus

*Badal Pal, University Hospital of South Manchester, Manchester, United Kingdom*

10h45 Break & Posters Session

#### Session 2: Cellular & Molecular Targets for Prevention & Therapies against Diabetes & Obesity

*Chairs : Pr Marvin Edeas, Pr Valdis Pirags*

11h15 Obesity and Brain Rewarding System

*Alfreds Janis Sipol, University of Latvia, Riga, Latvia*

11h45 Modifications of Glucose Transporter Expression and Nitric Oxide Production in the Pathogenesis of Diabetes Mellitus Complications

*Jelizaveta Sokolovska, Faculty of Medicine, University of Latvia, Riga, Latvia*

12h15 Prevalence of Overweight and Obesity in a Portuguese Community Sample of Adolescents

*Joana Pereira, Riga Stradins University, Latvia*

12h25 Half Polished Sorghum has Lower Human Glycemic Index and Higher Antioxidant Activity on Erythrocyte and Prevented Colon Cancer Development in Rats induced with Azoxymethane Carcinogen

*Fransiska Rungkat-Zakaria, Department of Food Science and Technology, Bogor Agricultural University, Bogor, Indonesia*

12h35 Lunch Break & Posters Session

### Session 3: Strategies in 2013 to Prevent and/or Treat Diabetes & Obesity

*Chairs: Pr Marvin Edeas, Pr Valdis Pirags*

14h00 A non-Inulinocentric View on Treatment of Type 2 Diabetes Mellitus: from Claude Bernard Onwards

*Valdis Pirags, University of Latvia, Riga, Latvia*

14h30 Pathogenesis of Obstructive Sleep Apnea/Hypopnea Syndrome (OSAHS), General Metabolism, Cardiovascular & Cognitive Consequences

*Juris Svaza, Riga Stradins University, Riga, Latvia*

15h00 Bariatric Surgery, Diabetes & Obesity: Is it an Option for Type 2 Diabetes Mellitus and Obesity Treatment?

*Olegs Kozlovskis, Bariatric Surgeon, Sigulda Hospital, Riga, Latvia*

15h30 Break & Posters Session

### Session 4: Nutrition, Diabetes & Obesity: What we can say in 2013? - Part I -

*Chairs: Pr Lolita Neimane, Pr Andreas Pfeiffer*

16h00 Foods to Improve Fatty Liver and Metabolism in Type 2 Diabetes Mellitus

*Andreas Pfeiffer, Charité University, Berlin, Germany*

16h30 The Regulation of Energy Metabolism Pathways through L- Carnitine Homeostasis

*Maija Dambrova, Riga Stradins University, Riga, Latvia*

17h00 Perception of Bitter Substance Phenylthiocarbamide (PTC) and its Associations with Nutrition Preference

*Lolita Vija Neimane, Riga Stradins University, Riga, Latvia*

17h30 A *Fraxinus Excelsior* L. Seed Extract, Fraxipure® Improves Glucose Homeostasis in Obese Animals and in Elderly Overweight Subjects

*Marjolaine Meyer, Innovative Platform, Nutrition & Health-Personal Care, Naturex, Avignon, France*

17h45 End of the First Day

19h30 Thursday Dinner

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## Day 2 - October 25

### Session 4: Nutrition, Diabetes & Obesity: What we can say in 2013? - Part II -

*Chairs: Pr Lolita Neimane, Pr Andreas Pfeiffer*

9h00 The Effects of Natural Antioxidants on Process of Complications in Patients with Type 2 Diabetes

*Nijole Savickiene, Medical Academy of Lithuanian University of Health Sciences, Kaunas, Lithuania*

9h30 Diabetes and Oxidative Stress: Impact of Natural Antioxidants Consumption

*Stéphanie Ros, Centre Européen d'Etude du Diabète, Strasbourg, France*

9h40 Activity of Ayurvedic Herbs and Formulation in Treatment of Type 2 Diabetes: Pharmacological Evidence and Relevance for Translational and Inter-disciplinary Research

*Somit Kumar, Head Clinical Pharmacology and Interdisciplinary Research, The Ayurvedic Trust, Coimbatore, India*

**10h10 Diabetes & Sugar: “The Stevia Revolution”**  
*Stevia as antioxidant and hypoglycaemia agent*  
*Per Bendix Jeppesen, Aarhus University, Aarhus, Denmark*

**10h40 Break & Posters Session**

### **Special Topic: Microbiota, Diabetes & Obesity 2013**

**11h00 Care and Nurture of the Human Symbionts Microbiota**  
*Diana Zandere, Pauls Stradins Clinical University Hospital, Riga, Latvia*

### **Session 5: Diabetes, Obesity & Biotechnologies: the Non-Invasive Strategies**

*Chairs: Dr Séverine Sigrist, Pr Marvin Edeas*

**11h30 The Challenges of the Bioartificial Pancreas**  
*Séverine Sigrist, University of Strasbourg, Strasbourg, France*

**12h00 Oral Administration of Insuline, Recent Advances & Perspectives**  
*Nathalie Auberval, Institut Charles Sadron, Starsbourg, France*

**12h30 Implementation of E-Medicine Solutions in the Care of Patients with Diabetes Mellitus in Latvia: EMedic Project Experience**  
*Revita Gaisuta, Pauls Stradins University Hospital, Riga, Latvia*

**13h00 Lunch Break & Posters Session**

**14h00 Short Oral Presentations**

**14h30 Discussion, Award & Conclusion of Riga Diabetes & Obesity 2013**

**15h30 Network Session around Drinks & Snacks – Posters Presentation**  
**End of Riga Diabetes & Obesity 2013**



**Please find the Registration Form  
on Website**

[www.isanh-lv.com](http://www.isanh-lv.com)