7th International Conference on

Diabetes & Obesity

October 24-25, 2013 – Riga, Latvia

Organized in Collaboration between

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Dear Colleagues,

It is a great pleasure to welcoming you for the 7th 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 Neiman**
**Pr Andreas Pfeiffer**
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

Chair: 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

Chair: 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 Azoxy methane 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 Stardins University, Riga, Latvia

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

Lolita Vija Neimane, Riga Stardins 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

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, Strasbourg, 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

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Please find the Registration Form on Website