

118<sup>th</sup> OMICS Group Conference

# Scientific Program



4<sup>th</sup> World Congress on

# Diabetes & Metabolism

August 14-16, 2013 Holiday Inn Chicago-North Shore, IL, USA



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## Exhibitor



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### OMICS Group Conferences

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08:30-09:30 Registrations

Salon A



09:30-09:55

## Opening Ceremony

## Keynote Forum

09:55-10:20 **Charles W. Heilig**  
University of Florida, USA

10:20-10:45 **Zhengyuan Xia**  
University of Hong Kong, China

Coffee Break 10:45-11:05 @ Salon Foyer

11:05-11:30 **Jonathan David Buckley**  
University of South Australia, Australia

11:30-11:55 **Vance B. Matthews**  
The Western Australian Institute for Medical Research, Australia

Track 1: Clinical Diabetes and Diagnostic Approaches

Track 4: Endocrinology: Patient-Oriented Case Management Discussions

Track 7: Genetics of Diabetes Session Introduction

Session Chair: Charles W. Heilig, University of Florida, USA

Session Co-Chair: Zhengyuan Xia, University of Hong Kong, China

Session Introduction

11:55-12:15 **Outcomes of the pharmacist-led diabetes intense medical management clinic: Assessing the impact of coupling education & clinical care in veterans**

Candis M. Morello, University of California, USA

12:15-12:35 **A novel pharmacogenetic strategy to study the regulation of glucose and energy homeostasis by distinct GPCR signaling pathways**

Jurgen Wess, National Institute of Diabetes and Digestive and Kidney Diseases, USA

12:35-12:55 **Vitamin D and gestational diabetes: A randomized, controlled, double blind trial**

Jenny E Gunton, Garvan Institute of Medical Research, Australia

Lunch Break 12:55-13:55 @ Atrium

13:55-14:15 **Advancement of nanoparticle-based insulin delivery systems in treatment of diabetes**

Kubra Elcioglu, Marmara University, Turkey

14:15-14:35 **The Healthy Diabetes Plate teaches meal planning skills and changes in eating behaviors**

Martha Raidl, University of Idaho, USA

14:35-14:55 **Learn Diabetes Meal Planning Skills in a Virtual World**

SeAnne Safaii, University of Idaho, USA

14:55-15:15 **Gestational diabetes: Should getting regular dose of sunshine from 1st trimester be part of antenatal package?**

Susan Okafor, Destiny University, USA

15:15-15:35 **Nurses participation in continuing professional education in Trinidad and Tobago: A case for chronic disease self-management education**

Onuoha PC, University of the West Indies, Trinidad

Coffee Break 15:35-15:55 @ Salon Foyer

15:55-16:15 **Lipid peroxidation and antioxidant protection in patients with diabetes mellitus type 1 during reproductive system development**

Kolesnikova L, Russian Academy of Medical Sciences, Russia

16:15-16:35 **Development of HSD-016 and HSD-621 as potential agents for the treatment of type 2 diabetes**

Zhao-Kui Wan, Pfizer Inc., USA

16:35-16:55 **GH therapy for IUGR rats enhances pdx1 expression and improves metabolic parameters**

Yingmin Wang, Zhejiang University, China

16:55-17:15 **Reversing Diabetes - The Approach**

Gaurav Sharma, Holy Angles Hospital, India

17:15-17:35 **N-Acetylcysteine And Allopurinol Up-regulated the Jak/STAT3 and PI3K/Akt pathway via Adiponectin and Attenuated Myocardial Post- Ischemic Injury In Diabetes**

Tingting Wang, The University of Hong Kong, China

17:35-17:55 **Regulation on Patient Rights in Turkish Legal System**

Hakan Hakeri, Istanbul Medeniyet University, Turkey

17:55-18:15 **Rights of Diabetic Patients in the Framework of Patient Rights in Turkish Law**

Murat Tumay, Istanbul Medeniyet University, Turkey

Panel Discussion

18:15-19:15 Cocktails: Sponsored by Journal of Diabetes &amp; Metabolism

## Track 3: Diabetes and its Complications

Session Chair: Fang Xu Jiang, University of Western Australia, Australia

Session Co-Chair: John S.D. Chan, Université de Montreal, Canada

## Session Introduction

- 09:00-09:20 **Sexual dysfunction and the affecting factors among diabetic women in Turkey**  
Nuriye Buyukkayaci Duman, Hitit University, Turkey
- 09:20-09:40 **Challenges in painful diabetic peripheral neuropathy clinical research**  
Domenico Merante, Daiichi Sankyo Development Ltd, UK
- 09:40-10:00 **Implication of the prorenin/renin receptor in the development of type 2 diabetes**  
Julie L. Lavoie, University of Montreal, Canada
- 10:00-10:20 **Pancreas-specific deletion of Bmpr1a transiently impairs islet architectural development and establishes a model of T2D of fetal origin**  
Fang Xu Jiang, University of Western Australia, Australia
- 10:20-10:40 **The mechanisms of endothelial microparticles impair endothelial function in heart valve disease and congenital heart diseases**  
Jing song Ou, Sun Yat-sen University, China

## Coffee Break 10:40-11:00 @ Salon Foyer

- 11:00-11:20 **Alterations of sympathetic nervous system, coagulation and platelet function in gestational diabetes**  
Risto J. Kaaja, Turku University, Finland
- 11:20-11:40 **The role of increased fruit and vegetable intake and the antiatherogenic properties of high density lipoproteins in subjects with type-2 diabetes**  
Jane McEneny, Queen's University, UK
- 11:40-12:00 **Alternative splicing in diabetic nephropathy**  
Sebastian Oltean, University of Bristol, UK
- 12:00-12:20 **Type 2 diabetes: The perfect model!**  
Souhad El Akoum, Université de Montreal, Canada
- 12:20-12:40 **Gestational diabetes mellitus frequency and the affecting factors in Turkey : Prospective study**  
Nuriye Buyukkayaci Duman, Hitit University, Turkey

## Lunch Break 12:40-13:40 @ Atrium

- 13:40-14:00 **Role of nutritional education in the management of type 2 diabetes during Ramadan fasting**  
Meghit Boumediene, Djillali Liabes University, Algeria
- 14:00-14:20 **Oxidative stress and tubular apoptosis in diabetic nephropathy**  
John S.D. Chan, Université de Montreal, Canada
- 14:20-14:40 **Development and characterization of the gene mine mouse model of diabetic retinopathy**  
Lakshini Y Weerasekera, University of Western Australia, Australia
- 14:40-15:00 **Diabetes where continents meet: Turkey; Diabetes-peer project**  
Mehmet Akif Buyukbese, KSU School of Medicine, Turkey
- 15:00-15:20 **Role of adiponectin in ischemic postconditioning mediated cardioprotection in diabetes**  
Haobo Li, University of Hong Kong, China
- 15:20-15:40 **Pattern of diabetic retinopathy and other blinding eye diseases in a low income African country**  
Lawan Abdu, Bayero University Kano, Nigeria

## Coffee Break 15:40-16:00 @ Salon Foyer

- 16:00-16:20 **Effect of patanjali yoga sutra in diabetes**  
Premanidhi Panda, Panda Diabetes Institute, India
- 16:20-16:40 **Ftir spectroscopy as a novel method in characterization and diagnosis of type i diabetes in rat animal model and the protective role of antioxidants**  
Feride Severcan, Middle East Technical University, Turkey
- 16:40-17:00 **Neuropathy screening of diabetic patients in primary care in Turkey. Implementation of a new approach in primary care settings in Turkey; Training of primary care physicians and education of patients**  
Turgay Ongel, Acibadem Adana Hospital, Turkey

## Panel Discussion

## Breakout-2

## Track 2: Diabetes Management

Session Chair: Louise Larose, McGill University, Canada

## Session Introduction

- 09:00-09:20 **Avoidance of simple carbohydrates, portion control and accountability in the treatment of insulin dependent type two diabetics**  
Dietmar Gann, Diet of Hope Institute, USA
- 09:20-09:40 **Increases in serum lutein through supplementation are correlated with increases in physical activity and reductions in sedentary time in older adults**  
Jonathan David Buckley, University of South Australia, Australia
- 09:40-10:00 **Private practice diabetes education: What role does it have in providing a holistic model of diabetes care in Far North Queensland, Australia**  
Shireen O'Brien, O'Brien Healthcare, Australia
- 10:00-10:20 **Impact of diabetes on quality of life among the Lebanese Community in Sydney**  
Wissam Mustapha, University of Sydney, Australia
- 10:20-10:40 **Regulation of glucose homeostasis by adaptor proteins Nck**  
Louise Larose, McGill University, Canada

## Coffee Break 10:40-11:00 @ Salon Foyer

- 11:00-11:20 **The use of an extract of Hypericum perforatum and Azadirachta indica in advanced diabetic foot**  
Maria Letizia Iabichella, Helios Med Onlus, Italy
- 11:20-11:40 **TDAG51 is a novel mediator of age-Onset obesity, hepatic steatosis and insulin resistance**  
Richard C. Austin, McMaster University, Canada
- 11:40-12:00 **Association of common variants of CDKN2A/2B rs10811661 (C/T) and WFS1 rs6446482 (C/G) to type 2 diabetes mellitus in the Indian population of eastern Uttar Pradesh**  
Sunita Singh, Banaras Hindu University, India
- 12:00-12:20 **The effectiveness of foot care education on people with type 2 diabetes**  
Nasibeh Vatankhah, Research Institute for Endocrine Sciences Iran
- 12:20-12:40 **Title: Increased resting energy expenditure in diabetic Mexican people is related to age, weight and lean body mass**  
Miriam Aracely Anaya Loyola, Universidad Autonoma de Queretaro Mexico
- 12:40-13:00 **Title: Identification of clonal lineages of S.aureus isolates from diabetic foot ulcer**  
Kavitha S, Manipal University, India

## Panel Discussion

15:40-17:10 Poster Presentations @ Atrium

17:30-18:30 Cocktails: Sponsored by: Pancreatic Disorders &amp; Therapy

Track 5: Advanced Technologies for Treatment of Diabetes

Track 6: Advancement of New Drug/Biomarker Discovery for Treatment of Diabetes

Track 8: Emerging Focus in Diabetes Research

Session Chair: Mark D Gorrell, Centenary Institute, Australia

Session Co-Chair: John Philip Tarburton, National University, USA

Session Introduction

- 09:00-09:20 **Resveratrol targets retinoic acid signaling to prevent neural tube defects in a rodent model of diabetic embryopathy**  
Ugra S. Singh, University of South Carolina, USA
- 09:20-09:40 **Targeting insulin resistance in type 2 diabetes via immune modulation of cord blood-derived multipotent stem cells (CB-SCs) in Stem Cell Educator Therapy**  
Yong Zhao, Hackensack University Medical Center, USA
- 09:40-10:00 **A randomized, placebo-controlled, single-blind, dose-escalation, first-time-in-human study to assess the safety and pharmacokinetics of single and repeat doses of srt3025 in normal healthy volunteers**  
Jonathan Haddad, Sirtris Pharmaceuticals, USA
- 10:00-10:20 **Resistin exacerbates insulin resistance under the condition of low adiponectin in 3T3-L1 adipocytes**  
Hiroaki Satoh, Fukushima Medical University, Japan

Coffee Break 10:20-10:40 @ Salon Foyer

- 10:40-11:00 **Restoration of myocardial brg1 protein expression by antioxidant NAcetylcysteine attenuates cardiac dysfunction in type1 diabetic rats**  
Ziqing Hei, Sun Yat-sen University, China
- 11:00-11:20 **Comparative studies between amyl nitrite and sodium nitrite in nitrite induced hemoglobin oxidation of diabetics and non-diabetics blood**  
John Philip Tarburton, National University, USA
- 11:20-11:40 **Systemic inflammation and diabetes mellitus**  
M. Saeed Vohra, King Saud University, Saudi Arabia
- 11:40-12:00 **Preservation of Tregs during CD28/CD154 blockade of ex vivo antigen-specific activation of diabetogenic T cells**  
Mark R. Rigby, Indiana University, USA
- 12:00-12:20 **Parametric regression and correlation studies of amyl nitrite induced hemoglobin oxidation of diabetics and non-diabetics blood**  
John Philip Tarburton, National University, USA
- 12:20-12:40 **N-Acetylcysteine and Allopurinol confer synergy in attenuating myocardial ischemia injury via restoring HIF-1alpha/HO-1 signaling in diabetic rats**  
Zhengyuan Xia, The University of Hong Kong, China

Lunch Break 12:40-13:40 @ Atrium

- 13:40-14:00 **Proteases as therapeutic targets and biomarkers in diabetes and its complications and in hepatitis C**  
Mark D Gorrell, Centenary Institute, Australia
- 14:00-14:20 **Impact of anaesthesia on systemic and cerebral metabolism of glucose in diabetes neurosurgical patients up dates of diabetes and neurosurgical anaesthesia**  
Liu Youtan, University of Hong Kong, China
- 14:20-14:40 **Common variation in the fat mass and obesity-associated (fto) gene confers risk of obesity and metabolic traits in the Chinese children**  
Wei-fen Zhu, Zhejiang University, China
- 14:40-15:00 **Acute and chronic effects of fatty acids on insulin secretion, oxygen consumption, intracellular calcium signaling and gene expression profile in mouse and human pancreatic islets**  
Nicolai Doliba, University of Pennsylvania, USA
- 15:00-15:20 **Effects of bariatric surgery on glucose control, weight reduction and disease remission among patients with type 2 diabetes mellitus: A systematic review and meta-analysis**  
Dianne Kristine Joy Closa, St. Luke's Medical Center, Philippines
- 15:20-15:40 **Proteomic analysis of human obesity reveals differential expression of the epigenetic factor HDAC4 and role of physical exercise in correcting its expression**  
Mohamed Abu Farha, Dasman Diabetes Institute, Kuwait

Coffee Break 15:40-16:00 @ Salon Foyer

16:00-17:00 **Workshop: Achieving & Maintaining Perfect Diabetes Control: New Ways and Means by A Michael Albisser****Symposium****Breakout-2**Systemic Effects of Diabetes and Obesity in Transplantation  
Opening remarks and introduction: Suman Setty

- 13:40-14:20 **Metabolic Syndrome in Pediatric Renal Transplant Patients: Its \$B!G (B Consequences and Treatment)**  
Eunice John, University of Illinois, Chicago
- 14:20-14:35 **Kidney transplantation in obese subjects**  
Amishi Desai, University of Illinois, Chicago
- 14:35-14:50 **Proteomic studies in renal transplant patients**  
Sanjeev Akkina, University of Illinois, Chicago
- 14:50-15:05 **Histology and Ultrastructure of the Transplanted Kidney**  
Suman Setty, University of Illinois, Chicago
- 15:20-15:35 **Infrared Spectroscopic Imaging: An Emerging route for Chemical and Structural Analysis of Renal Tissues in Diabetic Patients**  
Michael Walsh, University of Illinois, Chicago

Coffee Break 15:35-15:55 @ Salon Foyer

- 15:55-16:10 **Obesity, Diabetes, and Smoking are Important Determinants of Resource Utilization in Liver Resection**  
Hoonbae Jeon, University of Illinois, Chicago
- 16:10-16:25 **Hepatic histopathological modifications in post transplant recurrent chronic hepatitis C virus infection and its association with oxidative damage and diabetes**  
Grace Guzman, University of Illinois, Chicago

Closing Remarks: Grace Guzman

**Bookmark your dates**

