

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

# Scientific Program



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

# Diabetes & Metabolism

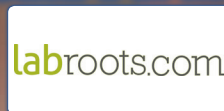
November 03-05, 2014 Embassy Suites Las Vegas, USA



## Exhibitors



## Media Partners



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### OMICS Group Conferences

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## Flamingo



09:30-09:55

## Opening Ceremony

## Keynote Forum

- 09:55-10:05 **Introduction**  
 10:05-10:35 **Zhengyuan Xia**  
 University of Hong Kong, China  
 10:35-11:10 **Sayon Roy**  
 Boston University School of Medicine, USA

Coffee Break 11:10-11:30 @ Atrium

- 11:30-12:00 **Ippei Kanazawa**  
 Shimane University, Japan

## Track 1: Clinical Diabetes and Diagnostic Approaches

## Track 4: Endocrinology: Patient-Oriented Case Management Discussions

## Track 5: Advanced Technologies for Treatment of Diabetes

Session Chair: Sayon Roy, Boston University School of Medicine, USA

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

Session Introduction

- 12:00-12:20 **Increased absolute systolic ankle pressures and reduced estimated glomerular filtration rate**  
 Kirti Kain, University of Leeds, UK  
**Comprehensive biomarker testing of glycemia, insulin resistance and beta cell function is associated with improved glycemic control in clinical practice**  
 Stephen Varvel, Health Diagnostic Laboratory, USA  
 12:20-12:40 **Opportunistic screening on admission to hospital: A missed opportunity to detect early**  
 Ranjna Garg, Barnet Hospital NHS Trust, UK  
 12:40-13:00 **Leveraging cross-species transcription factor binding site patterns: From diabetes risk loci to disease mechanisms**  
 13:00-13:20 **Melina Claussnitzer, Harvard Medical School, USA**

Lunch Break 13:20-14:15 @ Atrium

- 14:15-14:35 **Antioxidants status of stz-induced diabetic rats treated with extract of *Momordica Charantia***  
 Omobola Komolafe, Awolowo University, Nigeria  
**Randomized controlled trial of lifestyle intervention for type 2 diabetes patients in Kuwait and its impact on glycaemic control and the quality of life**  
 Mai Alhazzaa, University of Reading, UK  
 14:35-14:55 **Fuel metabolism in diabetic pregnancy**  
 Firdous memon, Public University LUMHS, Pakistan  
 14:55-15:15 **Of pregnant women and mice: Maternal-fetal disposition of glyburide during pregnancy and implications for the treatment of gestational diabetes mellitus**  
 15:15-15:35 **Qingcheng Mao, University of Washington, USA**

Coffee Break 15:35-15:55 @ Atrium

- 15:55-16:15 **Hepcidin mediates estrogen-dependent changes in serum iron availability in humans**  
 Mawieh Hamad, University of Sharjah, UAE  
 16:15-16:35 **Role of intercellular communication in diabetic retinopathy**  
 Sayon Roy, Boston University School of Medicine, USA  
 16:35-16:55 **Assessment of the probable causes of affective disturbances in diabetes mellitus-II**  
 Mohd Fazil, Ministry of Health and Family Welfare, India  
 16:55-17:15 **Insulin delivery using solid micro needle patches in diabetic rats**  
 Eric Ian Felner, Emory University School of Medicine, USA  
 17:15-17:35 **Dietary fiber psyllium based hydrogels for use in insulin delivery**  
 Nirmala Chauhan, Himachal Pradesh University, India  
 17:35-17:55 **Laser therapy speeds up healing of chronic diabetic ulcers**  
 Nicolette N Houreld, University of Johannesburg, South Africa  
 17:55-18:15 **Antioxidant N-acetylcysteine improves cardiac diastolic function in diabetic rats by attenuating PKC $\beta$  2 activation and improving caveolae function and eNOSsignaling**  
 Zhong-yuan Xia, Renmin Hospital of Wuhan University

## 18:15-18:30 Panel Discussion

18:30-19:30 Cocktails sponsored by Journal of Diabetes &amp; Metabolism @ Atrium

## Flamingo

## Keynote Forum

- 09:00-09:25 **Khaled Alswat**  
 Taif University, Saudi Arabia  
 09:25-09:50 **Premanidhi Panda**  
 Dr. Panda Diabetes Institute, India

## Track 2: Diabetes Management

Session Chairs: Karim M Raafat, Beirut Arab University, Lebanon  
Session Co-Chair: Scott Nickerson, Sheridan Memorial Hospital, USA

Session Introduction

- 09:50-10:10 **Culturally sensitive patient-centered educational program for self management of type 2 diabetes: A randomized controlled trial**  
Badriya Abdulla Al-Lenjawi, Hamad Medical Corporation, Qatar
- 10:10-10:30 **Diabetic foot salvage by Limited Access Dressing**  
Pramod kumar, King Abdul Aziz hospital, Saudi arabia
- 10:30-10:50 **Tools for decision making in diabetic foot ulcers**  
Michael Strauss, Long Beach Memorial Medical Center, USA

Coffee Break 10:50-11:10 @ Atrium

- 11:10-11:30 **Update on diabetes management: Learn the update on glucose lowering agents**  
Sheikh Ali Mae, University of Florida College of Medicine, USA
- 11:30-11:50 **Insulin pump therapy in children and adolescents: Educational program in Bogota Colombia**  
Camila Cespedes, Pontificia Universidad Javeriana, Colombia
- 11:50-12:10 **Barriers to the effective management of diabetic foot in the middle east**  
Abdul Hakeem Hamza, Primary Health Care Corporation, Qatar
- 12:10-12:30 **Anti diabetic activity of Indian plants with their phytoconstituents**  
Shashi Alok, Bundelkhand University, India
- 12:30-12:50 **Nutritional and genotoxic stress contributes to diabetes and neurodegenerative diseases such as Parkinson's and Alzheimer's diseases**  
Ian Martins, Edith Cowan University, Australia
- 12:50-13:10 **Prevention of type 2 diabetes in urban American Indian/Alaska natives communities: The Life in balance Pilot Study**  
Carolee Dodge Francis, University of Nevada, USA

Lunch Break 13:10-14:00 @ Atrium

- 14:00-14:20 **Antidiabetic and antinociceptive potential of selected eastern-Mediterranean medicinal plants**  
Karim M Raafat, Beirut Arab University, Lebanon
- 14:20-14:40 **Diabetes management in Nigeria and the risk of herb-drug interactions**  
Udoamaka Ezuruike, UCL School of Pharmacy, London
- 14:40-15:00 **Early alterations in renal intercellular junctions in diabetes**  
Jose Luis Reyes, National Polytechnic Institute, Mexico
- 15:00-15:20 **Sevoflurane pretreatment reduces highglucose-induced oxidative stress and inflammatory injury in human umbilical vein endothelial cells**  
Suobei Li, University of Hong Kong, China
- 15:20-15:40 **Objective evidence that nerve decompression protects against foot ulceration and reulceration in diabetic polyneuropathy**  
Scott Nickerson, Sheridan Memorial Hospital, USA

Coffee Break 15:40-16:00 @ Atrium

### Breakout-1 @ Riviera

#### Track 3: Diabetes and its Complications

Session Chair: Domenico Merante, Daiichi Sankyo Development Ltd, United Kingdom  
Session Co-Chair: Premanidhi Panda, Dr. Panda Diabetes Institute, India

Session Introduction

- 09:50-10:10 **Impact of the nocebo effect in clinical studies of painful Diabetic Peripheral Neuropathy. Can this effect masquerade a safety signal of a new investigational compound?**  
Domenico Merante, Daiichi Sankyo Development Ltd, United Kingdom
- 10:10-10:30 **Selective inhibition of PKC- $\beta$ 2 attenuates nitroglycerine-induced tolerance and prevents TNF- $\beta$  induced toxicity in endothelial cells**  
Shaoqing Lei, Wuhan University, China
- 10:30-10:50 **Comparative studies between amyl nitrite and butyl nitrite in nitrite induced hemoglobin oxidation of diabetics and non diabetics blood**  
John Philip Tarburton, National University, USA

Coffee Break 10:50-11:10 @ Atrium

- 11:10-11:30 **Can increased lycopene consumption reduce cardiovascular risk in diabetic patients**  
Frank Thies, University of Aberdeen, UK
- 11:30-11:50 **Metformin benefits exceeded glycemic control**  
Khaled Alswat, Taif University, Saudi Arabia
- 11:50-12:10 **Pioglitazone vs Voglibose on glycemic control study in type II diabetes in Indian population**  
Premanidhi Panda, Dr. Panda Diabetes Institute, India
- 12:10-12:30 **Effect of gender and body weight on postprandial glucose and lipid metabolism in adults with type 2 diabetes**  
Meghit Boumediene Khaled, Universiti Putra Malaysia, Malaysia
- 12:30-12:50 **Lost in Translation? Progress in immunotherapy for type 1 diabetes**  
Mark R Rigby, Indiana University, USA
- 12:50-13:10 **Cerebral hypoperfusion and cerebrovascular protein alterations induced by diabetes**  
Momoh Yakubu, Texas Southern University, USA

Lunch Break 13:10-14:00 @ Atrium

Session Chair: Ludvigsson Johnny, University Hospital, Sweden  
Session Co-Chair: Khaled Alswat, Taif University, Saudi Arabia

- 14:00-14:20 **Chronic diabetic complications: An accelerated aging process resulting from DNA damage and epigenetic alterations**  
Subrata Chakrabarti, Western University, Canada
- 14:20-14:40 **Nutrition, sirtuins and renin-angiotensin system: Cross talk in metabolic regulation**  
Sergio Henrique Sousa Santos, Federal University of Minas Gerais, Brazil
- 14:40-15:00 **Diabetes, Hyperhomocysteinemia and stroke**  
Paul Ganguly, Alfaisal Faisal University, Saudi Arabia
- 15:00-15:20 **Combination therapy to preserve residual insulin secretion in Type 1 diabetes**  
Ludvigsson Johnny, University Hospital, Sweden
- 15:20-15:40 **Anti insulin-Resistance properties of milk whey protein hydrolyzates and peptides**  
Jaime Amaya-Farfan, University of Campinas, Brazil

Coffee Break 15:40-16:00 @ Atrium

- 16:00-16:20 **Prevalence of normoglycemic, prediabetic and diabetic A1c Levels: NHANES 2007-2008 and NHANES 2009-2010**  
Judith Aponte, Hunter-Bellevue School of Nursing, USA
- 16:20-16:40 **Adiponectin may improve diabetic nephropathy**  
Hiroaki Satoh, Fukushima Medical University, Japan
- 16:40-17:00 **The pattern of the rules of halves in diabetes mellitus tested with data from Colombia**  
Noel Christopher, Observatorio de Diabetes de Colombia, Colombia
- 17:00-17:20 **Non-Traditional approaches for management of cardio metabolic risks**  
Gundu Rao, University of Minnesota, USA

**17:20-17:40** **An ayurvedic polyherbal formulation (Mahagni wati) in the management of Non Proliferative Diabetic Retinopathy (NPDR): A preliminary study**

Amrut Shankarrao Salunke, Government Ayurvedic Medical College, India

**17:40-18:00** **Ethnic aspects in lipid and carbohydrate metabolism in patients with type 1 diabetes mellitus**

Lubov Kolesnikova, Russian Federation, Russia

**18:00-18:20** **Panel Discussion**

**14:00-16:00** **Poster Presentations**

**18:30-19:30** **Cocktails sponsored by Journal of Pancreatic Disorders & Therapy @ Atrium**

**Day 3 November 05, 2014**

**Flamingo**

**Track 3: Diabetes and its Complications**

**Session Chair: Domenico Merante**, Daiichi Sankyo Development Ltd, United Kingdom

**Session Co-Chair: Premanidhi Panda**, Dr. Panda Diabetes Institute, India

**Session Introduction**

**08:30-08:50** **The anesthetic propofol for cardioprotection in diabetes: An update**

Xu Jinjin, Renmin Hospital of Wuhan University, China

**08:50-09:10** **Impact of diabetic microvascular complications on bone structure in type 1 diabetes mellitus**

Vikram Shanbhogue, Odense University Hospital, Denmark

**09:10-09:30** **Target FoxO1 to prevent metabolic disorders**

Zhiyong Cheng, Virginia Tech University, USA

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

**Track 7: Genetics of Diabetes Session Introduction**

**Session Chair: Ippei Kanazawa**, Shimane University, Japan

**Session Co-Chair: Mark D Gorrell**, Centenary Institute and University of Sydney, Australia

**Session Introduction**

**09:30-09:50** **High density lipoproteins: The good, the bad and the not so ugly**

Jane McEneny, Queen's University, UK

**09:50-10:10** **The protease fibroblast activation protein is a potential biomarker and therapeutic target in diabetes and fatty liver disease**

Mark D Gorrell, University of Sydney, Australia

**10:10-10:30** **A novel anti-diabetes drug development program**

Moon K Song, David Geffen School of Medicine, USA

**10:30-10:50** **Low level of serum IGF-I increases the risk of osteoporotic fracture in postmenopausal women with type 2 diabetes mellitus**

Ippei Kanazawa, Shimane University, Japan

**Coffee Break 10:50-11:10 @ Atrium**

**11:10-11:30** **Epigenetics: Role in the etiology of adult diseases**

Rita P Raman, University of Oklahoma Health Sciences, USA

**11:30-11:50** **Clinical and genetic features of diabetes mellitus in young patients in Siberia**

Alla Ovsyannikova, Siberian Branch of the Russian Academy of Medical Sciences, Russia

**11:50-12:10** **A genomic study of type 2 diabetics attending the outpatient clinic of national institute of diabetes and endocrinology**

Mohsen Khalid, National Institute of Diabetes and Endocrinology, Egypt

**12:10-12:30** **Gene therapy: Potential towards type-2 diabetes treatment**

Vineeta Sharma, Adeno Biosciences, USA

**12:30-12:50** **The evaluation of antioxidant system state in patients with diabetes mellitus in different ethnic groups**

Lubov Kolesnikova, Russian Federation, Russia

**Lunch Break 12:50-14:00 @ Atrium**

**Track 8: Emerging Focus in Diabetes Research**

**Track 9: Transplantation for Diabetes**

**Session Chair: Peter Congdon**, School of Geography, UK

**Session Co-Chair: Gerald J Prud'homme**, University of Toronto, Canada

**Session Introduction**

**14:00-14:20** **The population attributable fraction for the impact of obesity on diabetes: A contextual framework**

Peter Congdon, Queen Mary University of London, UK

**14:20-14:40** **Satiety-promoting spinach thylakoids promote weight-loss and decrease risk factors for metabolic diseases**

Caroline Montelius, Lund University, Sweden

**14:40-15:00** **Diabetes Observatory of Colombia: A health tool to decision makers**

Diana Carolina Tamayo, Observatorio de Diabetes de Colombia, Colombia

**15:00-15:20** **Antihyperglycemic effect of 5-HT<sub>2</sub> receptor stimulation induced by a serotonin analogue**

Enrique Hong chong, Center for Research and Advanced Studies, Mexico

**Coffee Break 15:20-15:40 @ Atrium**

**15:40-16:00** **The protective effects of GABA on human islet cells**

Gerald J Prud'homme, University of Toronto, Canada

**16:00-16:20** **Aberrant activation of aldose reductase promotes insulin insensitivity, hepatosteatosis and obesity in mice in part through modulating hepatic PPAR $\beta$ , LKB1/AMPK $\alpha$  and IRS-1**

James Y Yang, Xiamen University, China

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