



**UNITED** Scientific  
Group

ICDC-2017

International Conference on  
**Diabetes and Its  
Complications**

November 02-04  
**2017**

Venue

The DoubleTree Baltimore-  
BWI Airport  
890 Elkridge Landing Road  
Linthicum, MD 21090  
USA

# ICDC-2017 @ Harbor Room

## Day 1 | November 02, 2017

- 07:00-07:45 Registration @ Ball Room Foyer  
07:45-08:00 Inaugural Ceremony

### Keynote Presentations

- 08:00-08:45 **A unifying pathophysiologic approach to the complications of diabetes in the context of the beta-cell classification of diabetes**  
Stanley Schwartz, Emeritus, University of Pennsylvania, USA
- 08:45-09:30 **Vascular Complications in Diabetic Retinopathy**  
Sayon Roy, Boston University, USA
- 09:30-10:15 **Agonist G-protein coupled receptor autoantibodies and diabetic neurovascular complications**  
Mark B. Zimering, Veterans Affairs New Jersey Healthcare System, USA
- 10:15-10:45 **Coffee break** @ Annapolis Room
- 10:45-11:30 **Adiposity and cognitive impairments and dementias**  
Deborah R. Gustafson, State University of New York, USA

### Diabetes and Obesity

- Session - Kam L. Capoccia, Western New England University College of Pharmacy, USA*  
*Chair*
- 11:30-11:50 **Low-calorie sweeteners in weight management and diabetes**  
Allison Sylvetsky Meni, George Washington University, USA
- 11:50-12:10 **How to reset your clock with nutrition? The effect of diet composition, meal frequency and timing**  
Hana Kahleova, Physicians Committee for Responsible Medicine, USA
- 12:10-12:30 **Is vitamin D deficiency an indicator of insulin resistance and dysfunctional adipose tissue in obesity?**  
Edita Stokic, University of Novi Sad, Serbia
- 12:30-13:30 **Lunch** @ Eden's Landing Restaurant
- 13:30-13:50 **Impaired capacity for weight loss in type 2 diabetes**  
Ghadi Antoun, University of Ottawa, Canada
- 13:50-14:10 **Regulatory role of exercise-induced myokine in metabolic diseases**  
Ning Chen, Wuhan Sports University, China

- 14:10-14:30 **Treatment of diabetes and obesity with engineered skin stem cells**  
Xiaoyang Wu, University of Chicago, USA
- 14:30-14:50 **Intriguing relationship between low density lipoprotein cholesterol and type 2 diabetes**  
Huichun Xu, University of Maryland School of Medicine, USA

## Diabetes Care and Support

- 14:50-15:10 **Psychological outcomes and related correlations among family members of persons with diabetes in the second diabetes attitudes, wishes and needs (DAWN2) study**  
Katharina Kovacs Burns, University of Alberta, Canada
- 15:10-15:30 **Managing diabetes in pregnancy using cell phone/internet technology**  
Marguerite L Bartholomew, University of Hawaii John, A. Burns School of Medicine, USA
- 15:30-15:50 **Multidisciplinary team care of patients with diabetes in an outpatient VA setting**  
Izabela Collier, Western New England University, USA
- 15:50-16:00 Coffee break** @ Annapolis Room
- 16:00-16:20 **The phantom of metformin-induced lactic acidosis in end-stage renal disease patients: Time to reconsider with peritoneal dialysis treatment**  
Mohamed Ahmed Nasreldin, University of Dammam, Saudi Arabia
- 16:20-16:40 **Modified social learning theory re-examined: correlates of self-management behaviors of persons with type 2 diabetes**  
Linda Elizabeth Nugent, Royal College of Surgeons in Ireland, Ireland
- 16:40-17:00 **The level of comorbidity and compensation of diabetes mellitus**  
Irina Kurnikova, RUDN-University, Russia
- 17:00-17:20 **Aerobic exercises like cycling is associated with significant improvement in glycemic control in patients with T2 DM**  
Ashok Jhingan, Delhi Diabetes Research Center, India

- 17:20-18:30 Poster Presentations** @ Annapolis Room

## Day 2 | November 03, 2017

### Keynote session

- 08:00-08:45 **Prediction of 10-year vascular risk in patients with diabetes: The AD-ON risk score**  
Mark Woodward, University of Oxford, UK
- 08:45-09:30 **Diabetes complications in ADVANCE and ADVANCE-ON and their genetic determinants**  
Pavel Hamet, Centre de recherche du CHUM, Canada
- 09:30-10:15 **Novel therapeutic targets for type 2 diabetes**  
Terez Shea Donohue, University of Maryland School of Medicine, USA
- 10:15-10:30 Coffee break @ Annapolis Room**
- 10:30-11:15 **Inpatient diabetes management**  
Robert J. Tanenberg, East Carolina University, USA

### Type 2 Diabetes: Basic and Clinical Research

- Session Chair - Dennis Bruemmer, University of Pittsburgh, USA*
- 11:15-11:45 **Aging and type 2 diabetes: from telomeres to epigenetics**  
Dennis Bruemmer, University of Pittsburgh, USA
- 11:45-12:10 **Fluoroquinolone antibiotics and type 2 diabetes mellitus**  
Stephen J. Telfer, E Ink Corporation, USA
- 12:10-12:30 **Channeling euglycemia: K2P channel modulation of islet hormone secretion and glucose homeostasis**  
David A. Jacobson, Vanderbilt University, USA
- 12:30-12:50 **Inhibition of cholinergic potentiation of insulin secretion from pancreatic islets by chronic elevation of glucose and fatty acids: protection by casein kinase 2 inhibitor**  
Nicolai Doliba, University of Pennsylvania, USA
- 12:50-13:10 **Bone and joint fungal infections in diabetic patients**  
Saad J. Taj-Aldeen, Hamad Medical Corporation, Qatar
- 13:10-14:00 Lunch @ Eden's Landing Restaurant**
- 14:00-14:20 **GLP-1 receptor expressed in pancreatic  $\alpha$ -cells plays a direct role in regulating glucagon secretion**  
Yanqing Zhang, Tulane University, USA
- 14:20-14:40 **Diabetes Mellitus - Perspective of an oral pathologist**  
Deepika Gopal, Penang International Dental College, Malaysia

- 14:40-15:00 **Predictors for the treatment efficacy of sodium glucose co-transporter 2 inhibitors in patients with type 2 diabetes mellitus**  
Shusuke Yagi, Tokushima University Graduate School of Biomedical Sciences, Japan
- 15:00-15:20 **Short and long-term repercussions of the maternal diabetes in rat preimplantation embryo**  
Débora Cristina Damasceno, Sao Paulo State University, Brazil
- 15:20-15:40 **Cognitive function and insulin resistance**  
Lina Ma, Xuanwu Hospital Capital Medical University, China
- 15:40-16:00 **Hyperbaric oxygen therapy in the treatment of ischemic leg ulcers in diabetic patients: a multicenter trial**  
Dirk T. Ubbink, Academic Medical Center at the University of Amsterdam, The Netherlands
- 16:00-16:20 **Spatial learning and memory, transcriptional and proteomic analysis of growth hormone action in bGH and GHA mice brain**  
Amrita Basu, Moffitt Cancer Center, USA

## Diabetes Management: Awareness, Support, Therapy, and Technology & Biomarkers and Therapeutics

- Session Chair* - *Kam L. Capoccia, Western New England University College of Pharmacy, USA*
- 16:20-16:40 **Leveraging the power of digital health for diabetes population health self-management education**  
Malinda Peeples, Welldoc, USA
- 16:40-17:00 Coffee break** @ Annapolis Room
- 17:00-17:20 **Adherence: treat it as a vital sign**  
Kam L. Capoccia, Western New England University College of Pharmacy, USA
- 17:20-17:40 **Hyperglycemic dividing monocytes cannot tolerate glucose uptake and initiate aberrant hyaluronan synthesis responses involved in diabetic pathologies**  
Vincent Hascall, Cleveland Clinic, USA
- 17:40-18:00 **Preventing diabetes: evidence and perspectives**  
Jocelyne Karam, Maimonides Medical Center and SUNY Downstate Medical Center, USA
- 18:00-18:20 **People with diabetes using One Drop on iPhone and Apple Watch report significant A1c drop**  
Chandra Y. Osborn, Informed Data Systems Inc, USA
- 18:20-18:40 **Coupling of insulin secretion and display of a granule-resident zinc transporter ZnT8 on the surface of pancreatic beta-cells**  
Qiong Huang, Johns Hopkins University, USA

18:40-19:00 **Identification of potential pharmacoperones capable of rescuing the functionality of misfolded vasopressin 2 receptor involved in nephrogenic diabetes insipidus**  
Timothy Spicer, The Scripps Research Institute, USA

## Day 3 | November 04, 2017

### Diabetic Complications

*Session* - *Azza B. El-Remessy, Augusta Biomedical Research Corporation, USA*  
*Chair*

08:00-08:25 **TXNIP activates NLRP3-inflammasome in a high fat diet model: Beyond the eye**  
Azza B. El-Remessy, Augusta Biomedical Research Corporation, USA

08:25-08:50 **Perinatal impaired breathing induced diabetic conditions may result in fragile bone**  
Eung-Kwon Pae, University of Maryland, USA

08:50-09:10 **The paper grip test for the early detection of intrinsic muscle weakness of the foot caused by peripheral neuropathy**  
Willem J. Theuvenet, Department of Plastic Surgery, Gelre Hospital, Apeldoorn, The Netherlands  
Rutger Mahieu, University Medical Center Groningen, The Netherlands

09:10-09:30 **Detecting intrinsic muscle weakness of the hallux as an addition to early-stage screening of the feet in patients with diabetes**  
Rutger Mahieu, University Medical Center Groningen, The Netherlands  
Willem J. Theuvenet, Department of Plastic Surgery, Gelre Hospital, Apeldoorn, The Netherlands

09:30-09:50 **Non-alcoholic fatty liver disease is improved by transplantation of modified human mesenchymal stromal cells (MSCs) in diet induced obese diabetic mice**  
Sabyasachi Sen, George Washington University, USA

**09:50-10:10 Coffee break**

**@ Annapolis Room**

### Epidemiology, Public Health and Case Studies

*Session* - *Qibin Qi, Albert Einstein College of Medicine, USA*  
*Chair*

10:10-10:30 **Physical activity, sedentary behavior, and diabetes: findings from a US Hispanic/Latino cohort**  
Qibin Qi, Albert Einstein College of Medicine, USA

10:30-10:50 **In-hospital experience with insulin degludec (IDEG)**  
Maria Fernanda Ozorio de Almeida, Santa Casa SÃ£o Paulo, Brazil

- 10:50-11:10 **UV-B radiations and T1D high incidence in the hot spot of Sardinia: one more environmental factor?**  
Marco Songini, Diabetes center, San Michele Hospital, Italy
- 11:10-11:30 **The burden of functional disability among patients with diabetes and comorbid conditions: Evidence from hospital based survey from Pakistan**  
Nadia Shah, Dow University of HealthSciences, Pakistan

## Diabetes and Cancer

*Session - Qibin Qi, Albert Einstein College of Medicine, USA*  
*Chair*

- 11:30-11:50 **Effect of Insulin and metformin combination treatment on colon adenoma and advanced adenoma among DM II**  
Deepanshu Jain, Albert Einstein Medical Center, USA
- 11:50-12:10 **Effect of dapagliflozin on colon cancer cell**  
Junichi Okada, Gunma University, Japan
- 12:10-12:30 **What underlies the inverse association between diabetes and prostate cancer risk: an 11-year historical population follow up study of more than 1 million men**  
Rachel Dankner, The Gertner Institute for Epidemiology and Health Policy Research, Israel

## Poster session

- P-01 **Adherence to medication for type 2 diabetes among Syrian refugees and host communities in Lebanon**  
Emily Lyles, Johns Hopkins Bloomberg School of Public Health Center for Humanitarian Health, USA
- P-02 **Diabetes connect: A diabetes self-management education and support program for Saint Anthony hospital community**  
Jenny Jimenez, Rush University College of Nursing, USA
- P-03 **A community outreach initiative with favorable impact on diabetes mellitus and cardio metabolic risk (CMR)**  
Renee Murray-Bachmann, Mount Sinai Medical Center & Northwell Health, USA
- P-04 **Relationship between years of marijuana use and the four main diagnostic criteria for metabolic syndrome among United States adults**  
Barbara A. Yankey, Georgia State University, USA
- P-05 **Identification of clinical determinants for coefficient of variation of R-R intervals in patients with type 2 diabetes**  
Kana Morimoto, Tokushima University Graduate School of Biomedical Sciences, Japan

- P-06 **Heparin cofactor II, a serine protease inhibitor is associated with albuminuria in humans and mice**  
Ken ichi Aihara, Tokushima University Graduate School of Biomedical Sciences, Japan
- P-07 **Bioenergetic effects of mitochondrial KATP channel opener diazoxide in rat liver mitochondria**  
Olga Akopova, AA Bogomoletz Institute of Physiology, Ukraine
- P-08 **Simplified method of plantigrafia for assessing the feet of diabetic patients**  
Beatriz Bertolaccini Martínez, Vale do Sapucaí University, Brazil
- P-09 **Evaluation of patient satisfaction after using prefilled insulin pen SoloSTAR in real life in Lithuania**  
Lina Radzeviciene, Lithuanian University of Health Sciences, Lithuania
- P-10 **The renal threshold for glucose re-absorption predicts diabetes improvement by sodium glucose co-transporter 2 inhibitor therapy**  
Shuichi Okada, Gunma University Graduate School of Medicine, Japan
- P-11 **A diabetes education program incorporating supervised exercises improves acute blood glucose management in individuals with type 1 diabetes**  
Tulio Cesar de Lima Lins, Universidade Paulista, Brazil
- P-12 **Effect of high fructose intake on the development of hypertension in the spontaneously hypertensive rats: The role of AT1R/Gp91phox signaling in the rostral ventrolateral medulla**  
Chih-Wei Wu, Chang Gung Memorial Hospital/Institute for Translational Research in Biomedicine, Taiwan
- P-13 **A potential screening strategy of pancreatic cancer in new-onset diabetes patients using serum CA19-9 in combination with age and BMI**  
Xiangyi He, Shanghai Ruijin hospital, China
- P-14 **Effects of biotin supplementation during the first week post weaning**  
Wilma Tixi Verdugo, Universidad Nacional Autonoma de Mexico, Mexico
- P-15 **Nanocurcumin-Chitosan targets GLUT-4 translocation and PI3 Kinase pathway in L6 skeletal muscle cells**  
Pratibha Chauhan, Jiwaji University, India
- P-16 **New treatment of complications after drainage surgery neovascular glaucoma in patients with diabetes**  
Dmitry Lipatov, National Endocrinology Research center, Russia
- P-17 **Accuracy of capillary blood sugar test when fasting in diabetes patients or general population, comparison with venous blood sugar test : Performance evaluation of G300 based on ISO 15197 standards**  
Young-min Jee, Soonchunhyang University Seoul Hospital, Korea

- P-18 **The effect of locally delivered Vanadyl Acetylacetonate on the biomechanical properties of bone in diabetes-related osteoporosis**  
Suleiman Sudah, Rutgers New Jersey Medical School, USA
- P-19 **Dulce wireless Tijuana: adaptation and impact of the project Dulce™ model with and without mobile and wireless technology in patients with type 2 diabetes mellitus at a family medicine unit in Northern Mexico**  
Adriana Carolina Vargas Ojeda, Mexican Institute of Social Security, Mexico
- P-20 **Cardiometabolic syndrome and body composition of individuals after cervical spinal Cord Injuries compare to the healthy control**  
Anna Zwierzchowska, Academy of Physical Education, Poland
- P-21 **Inflammatory cytokine, neurotrophic and growth factors responses to continuous and intermittent exercise in patients with type 1 diabetes and healthy controls**  
Aleksandra Zebrowska, Academy of Physical Education, Poland
- P-22 **Impact of obesity and insulin-resistance on bone mineral density in Tunisian postmenopausal women**  
Cherif Rim, University of Carthage, Tunisia
- P-23 **Adjusting doses of U-500R insulin: the importance of using continuous blood glucose monitoring**  
Connie A Valdez, University of Colorado Skaggs School of Pharmacy and Pharmaceutical Sciences, USA

*We wish to see you at ICDC-2018*



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