International Conference on
Diabetes and Its Complications

November 2 - 4
2017

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

Pre-function area

EDEN'S LANDING
RESTAURANT

LOBBY
LOUNGE

SUITES
OFFICE

BILLIE
HOLIDAY

CAB
CALLOWAY

HARBOR
ROOM

ANNAPOLIS
ROOM

KITCHEN
ICDC-2017 @ Harbor Room

Day 1 | November 2, 2017

07:00-07:45 Registrations @ Pre-function Area
07:45-08:00 Introduction to ICDC-2017

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, University of Pennsylvania, PA, USA

08:45-09:30 Vascular complications in diabetic retinopathy
Sayon Roy, Boston University, MA, USA

09:30-10:15 Agonist G-protein coupled receptor autoantibodies and diabetic neurovascular complications
Mark B. Zimering, Veterans Affairs New Jersey Healthcare System, NJ, USA

10:15-10:45 Coffee break @ Foyer Area

10:45-11:30 Adiposity and cognitive impairments and dementias
Deborah R. Gustafson, State University of New York, NY, USA

Diabetes and Obesity

Session Chair Kam L. Capoccia, Western New England University College of Pharmacy, MA, USA

11:30-11:50 Low-calorie sweeteners in weight management and diabetes
Allison Sylvetsky Meni, George Washington University, DC, 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, DC, 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, ON, 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, IL, USA

14:30-14:50  Intriguing relationship between low density lipoprotein cholesterol and type 2 diabetes  
Huichun Xu, University of Maryland School of Medicine, MD, 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, AB, 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, HI, USA

15:30-15:50  Multidisciplinary team care of patients with diabetes in an outpatient VA setting  
Izabela Collier, Western New England University, MA, USA

15:50-16:00  Coffee break  
@ Foyer Area

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

17:20-18:20  Poster Presentations  
@ Annapolis Room
### Keynote Presentations

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Institution/Location</th>
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</thead>
<tbody>
<tr>
<td>08:00-08:45</td>
<td>Prediction of 10-year vascular risk in patients with diabetes: the AD-ON risk score</td>
<td>Mark Woodward</td>
<td>University of Oxford, UK</td>
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<tr>
<td>08:45-09:30</td>
<td>Diabetes complications in ADVANCE and ADVANCE-ON and their genetic determinants</td>
<td>Pavel Hamet</td>
<td>University of Montreal Hospital Research Centre-CRCHUM, QC, Canada</td>
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<tr>
<td>09:30-10:15</td>
<td>Novel therapeutic targets for type 2 diabetes</td>
<td>Terez Shea Donohue</td>
<td>University of Maryland School of Medicine, MD, USA</td>
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<tr>
<td>10:15-10:30</td>
<td>Coffee break</td>
<td></td>
<td>@ Foyer Area</td>
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<tr>
<td>10:30-11:15</td>
<td>Inpatient diabetes management</td>
<td>Robert J. Tanenberg</td>
<td>East Carolina University, NC, USA</td>
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### Type 2 Diabetes: Basic and Clinical Research

**Session Chair**: Dennis Bruemmer, University of Pittsburgh, PA, USA

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<tr>
<td>11:15-11:45</td>
<td>Aging and type 2 diabetes: from telomeres to epigenetics</td>
<td>Dennis Bruemmer</td>
<td>University of Pittsburgh, PA, USA</td>
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<tr>
<td>11:45-12:10</td>
<td>Fluoroquinolone antibiotics and type 2 diabetes mellitus</td>
<td>Stephen J. Telfer</td>
<td>E Ink Corporation, MA, USA</td>
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<tr>
<td>12:10-12:30</td>
<td>Channeling euglycemia: K2P channel modulation of islet hormone secretion and glucose homeostasis</td>
<td>David A. Jacobson</td>
<td>Vanderbilt University, TN, USA</td>
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<tr>
<td>12:30-12:50</td>
<td>Inhibition of cholinergic potentiation of insulin secretion from pancreatic islets by chronic elevation of glucose and fatty acids: protection by casein kinase 2 inhibitor</td>
<td>Nicolai Doliba</td>
<td>University of Pennsylvania, PA, USA</td>
</tr>
<tr>
<td>12:50-13:10</td>
<td>Bone and joint fungal infections in diabetic patients</td>
<td>Saad J. Taj-Aldeen</td>
<td>Hamad Medical Corporation, Qatar</td>
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<tr>
<td>13:10-14:00</td>
<td>Lunch</td>
<td></td>
<td>@ Eden’s Landing Restaurant</td>
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<tr>
<td>14:00-14:20</td>
<td>GPL-1 receptor expressed in pancreatic α-cells plays a direct role in regulating glucagon secretion</td>
<td>Yanqing Zhang</td>
<td>Tulane University, LA, USA</td>
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<tr>
<td>14:20-14:40</td>
<td>Diabetes mellitus - perspective of an oral pathologist</td>
<td>Deepika Gopal</td>
<td>Penang International Dental College, Malaysia</td>
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<tr>
<td>14:40-15:00</td>
<td>Predictors for the treatment efficacy of sodium glucose co-transporter 2 inhibitors in patients with type 2 diabetes mellitus</td>
<td>Shusuke Yagi</td>
<td>Tokushima University Graduate School of Biomedical Sciences, Japan</td>
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<td>Time</td>
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<tr>
<td>15:00-15:20</td>
<td>Short and long-term repercussions of the maternal diabetes in rat preimplantation embryo</td>
<td>Débora Cristina Damasceno</td>
<td>Sao Paulo State University, Brazil</td>
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<tr>
<td>15:20-15:40</td>
<td>Cognitive function and insulin resistance</td>
<td>Lina Ma</td>
<td>Xuanwu Hospital Capital Medical University, China</td>
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<tr>
<td>15:40-16:00</td>
<td>Hyperbaric oxygen therapy in the treatment of ischemic leg ulcers in diabetic patients: a multicenter trial</td>
<td>Dirk T. Ubbink</td>
<td>Academic Medical Center at the University of Amsterdam, The Netherlands</td>
</tr>
<tr>
<td>16:00-16:20</td>
<td>Spatial learning and memory, transcriptional and proteomic analysis of growth hormone action in bGH and GHA mice brain</td>
<td>Amrita Basu</td>
<td>Moffitt Cancer Center, FL, USA</td>
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<tr>
<td>16:20-16:40</td>
<td>Coffee break</td>
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<td>@ Foyer Area</td>
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<td></td>
<td><strong>Diabetes Management: Awareness, Support, Therapy, and Technology &amp; Biomarkers and Therapeutics</strong></td>
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<td>16:40-17:00</td>
<td>Leveraging the power of digital health for diabetes population health self-management education</td>
<td>Malinda Peeples</td>
<td>Welldoc, MD, USA</td>
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<tr>
<td>17:00-17:20</td>
<td>Adherence: treat it as a vital sign</td>
<td>Kam L. Capoccia</td>
<td>Western New England University College of Pharmacy, MA, USA</td>
</tr>
<tr>
<td>17:20-17:40</td>
<td>Hyperglycemic dividing monocytes cannot tolerate glucose uptake and initiate aberrant hyaluronan synthesis responses involved in diabetic pathologies</td>
<td>Vincent Hascall</td>
<td>Cleveland Clinic, OH, USA</td>
</tr>
<tr>
<td>17:40-18:00</td>
<td>Preventing diabetes: evidence and perspectives</td>
<td>Jocelyne Karam</td>
<td>Maimonides Medical Center and SUNY Downstate Medical Center, NY, USA</td>
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<tr>
<td>18:00-18:20</td>
<td>People with diabetes using One Drop on iPhone and Apple Watch report significant A1c drop</td>
<td>Chandra Y. Osborn</td>
<td>Informed Data Systems Inc, TX, USA</td>
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<tr>
<td>18:20-18:40</td>
<td>Coupling of insulin secretion and display of a granule-resident zinc transporter ZnT8 on the surface of pancreatic beta-cells</td>
<td>Qiong Huang</td>
<td>Johns Hopkins University, MD, USA</td>
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<tr>
<td>18:40-19:00</td>
<td>Identification of potential pharmacoperones capable of rescuing the functionality of misfolded vasopressin 2 receptor involved in nephrogenic diabetes insipidus</td>
<td>Timothy Spicer</td>
<td>The Scripps Research Institute, FL, USA</td>
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Diabetic Complications

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

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, GA, USA

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

09:50-10:10 Coffee break @ Foyer Area

Epidemiology, Public Health and Case Studies

Session Chair: Qibin Qi, Albert Einstein College of Medicine, NY, USA

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

10:30-10:50
In-hospital experience with insulin degludec (IDEG)
Maria Fernanda Ozorio de Almeida, Santa Casa São 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 Health Sciences, Pakistan

Diabetes and Cancer

Session Chair Qibin Qi, Albert Einstein College of Medicine, NY, USA

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, NY, 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

12:30 - Lunch & Departures

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, MD, 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, IL, 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, NY, 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, GA, 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 Martinez, Vale do Sapucai 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, NJ, USA
P-19  Dulce wireless Tijuana: adaptation and impact of the project DulceTm 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, CO, USA

P-24  Increased uptake of oxidized LDL by macrophages from type 2 diabetics is inhibited by polyamines
Francisco L. Balderas, Mexican Institute of Social Security, Mexico

P-25  Attenuation of STZ-induced diabetic neuropathy by Bacopa monnieri via inhibition of advanced glycation end products and oxidative/nitrosative stress
Lalit Kishore, Ch. Devi Lal College of Pharmacy, India
Notes
We wish to see you at ICDC-2018