

20th
hybrid
WCIRD

World Congress Insulin Resistance
DIABETES & CARDIOVASCULAR DISEASE
LIVE IN-PERSON ONLINE

December 1–3, 2022
Hilton Universal City Hotel
Los Angeles, CA



Administrated by Metabolic Institute of America

Exploring New Frontiers In Metabolism – Tomorrow's Clinical Science Today



JOINTLY PROVIDED



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Welcome.

It is my pleasure to invite you to celebrate with us the 20th anniversary of the World Congress on Insulin Resistance, Diabetes and Cardiovascular Disease (WCIRDC): Exploring New Frontiers in Metabolism—Tomorrow's Clinical Science Today. The 20th Annual WCIRDC will take place at the Hilton Universal City, Los Angeles. Based on Last year's incredible success we continue to also offer Live Online participation and On-Demand for 3 months, to accommodate our attendees from across the globe.

Since its inception, the congress has become the premier global meeting dedicated to metabolism- obesity, diabetes, lipids, HTN, CKD, CVD, HF, and NAFLD. This is the only conference of its size that incorporates and the whole spectrum from basic through clinical science. It offers an exclusive opportunity for professionals, researchers, and clinicians to collaborate on emerging science and its implication on management strategies.

The WCIRDC faculty consists of globally acclaimed experts who link research to clinical practice in a bench-to bedside-to-bench approach that is unique to this state-of-the-art conference.

To commemorate its 20th year, the WCIRDC will honor the legendary Gerald Reaven, MD, along with an agenda filled with the congress's unique blend of basic and clinical science and practical implication for patient care. WCIRDC will honor Drs. Christos Mantzoros the 2020 and Vivian Fonseca the 2022 recipients of the Gerald Reaven Distinguished Leader in Insulin Resistance Award. This year's conference will cover a wide range of topics including: COVID 19 & Metabolism, Diabetes and lipids Management, Fatty Liver Disease and the Heart, Approach to Heart Failure and CKD, From Childhood Risk to Diseases in Adults, Cardiometabolic Women's Health, insulin resistance and islet cell function Obesity diet and health, ASCVD, are just some of the engaging topics to be addressed during the congress.

Highly anticipated highlights of the conference are: The Early Intervention initiative the joint sessions with the Journals metabolism and Lancets Diabetes and Endocrinology and the unique and exciting A Glimpse Of The Future - What's In The Pipeline where top industry leaders describe new drugs in development

Attendees will be able to participate in clinical workshops, meet-the-expert sessions and have rare opportunity to personally interact and meet globally recognized, top experts and the most esteemed leaders in an intimate setting.

The Congress has a robust and highly successful abstracts program to be published in Metabolism Clinical and Experimental (IF- 13.9 Editor-in-Chief, Christos S. Mantzoros, MD, DSc, PhD). The top Abstracts will be presented orally and win prizes.

The 20th WCIRDC congress will feature a robust Poster Hall, an attractive Exhibit Hall, and Industry Supported non-CME programs that will feature important scientific concepts with some of the world's best-known educators.

I look forward to you joining this exciting conference on December 1-3, 2022, at Los Angeles, California. We hope to see you there.



Best regards,

Yehuda Handelsman, MD
Chair & Program Director

Scientific Organizing Committee - International Committee for Insulin Resistance - ICIR

Yehuda Handelsman, MD Chair
Tarzana, CA

Richard N. Bergman, PhD
Los Angeles, CA

Zachary T. Bloomgarden, MD
New York, NY

Matthew J. Budoff, MD
Los Angeles, CA

Sonia Caprio, MD
New Haven, CT

Robert J. Chilton, DO
San Antonio, TX

Kenneth Cusi, MD
Gainesville, FL

Jaime A. Davidson, MD
Dallas, TX

Ralph A. DeFronzo, MD
San Antonio, TX

Vivian A. Fonseca, MD
New Orleans, LA

W. Timothy Garvey, MD
Birmingham, AL

Peter J. Grant, MD
Leeds, United Kingdom

Jennifer Green, MD
Durham, North Carolina

George Grunberger, MD
Bloomfield Hills, MI

Chris K. Guerin, MD
Oceanside, CA

Paul S. Jellinger, MD
Hollywood, FL

Samuel Klein, MD
St. Louis, MO

Mikhail N. Kosiborod, MD
Kansas City, MO

Ronald M. Krauss, MD
Berkeley, CA

Norman Lopor, MD
Los Angeles, CA

Derek LeRoith, MD, PhD
New York, NY

Philip Levy, MD
Phoenix, AZ

Christos Mantzoros, MD, PhD
Boston, MA

Nikolaus Marx, MD
Aachen, Germany

Tracey L. McLaughlin, MD
Stanford, CA

Christian W. Mende, MD
La Jolla, CA

Erin D. Michos, MD
Baltimore, Maryland

Jorge Plutzky, MD
Boston, MA

Richard Pratley
Orlando, FL

Arun J. Sanyal, MD
Richmond, VA

Philipp E. Scherer, PhD
Dallas, TX

Alan R. Sinaiko, MD
Minneapolis, MN

Bart Staels, PhD
Lille, France

Pam R. Taub, MD
San Diego, CA

Muthiah Vaduganathan, MD, MPH
Boston, MA

Matthew R. Weir, MD
Baltimore, MD

Paul Zimmet, AO, PhD
Melbourne, Australia



PROGRAM DESCRIPTION

The World Congress on Insulin Resistance, Diabetes & Cardiovascular Disease (WCIRDC), now in its 20th year, is a unique and exciting multidisciplinary CME conference. The Congress has become the premier global meeting dedicated to diabetes, obesity, lipids, cardiovascular-kidney and liver disease linking basic research to clinical practice in pursuit of our theme: Exploring New Frontiers in Metabolism — Tomorrow’s Clinical Science Today.

WCIRDC 2022 will be Live in Person and online (virtual) at the Hilton Universal City Hotel in Los Angeles, on December 1-3, 2022. The conference will be followed by 90 days On Demand.

The participants can earn up to 28.25 CME & ABIM-MOC credits.

WCIRDC is the only meeting of its size combining basic and clinical science. For nearly two decades it has brought researchers, physicians, clinicians, and other healthcare professionals together for a distinctive international program that bridges the latest developments from

bench-to-bedside- to-bench. “I heard it first at the Congress” is a frequent remark from the audience. WCIRDC offers attendees a unique experience to interact with the distinguished global faculty. In an intimate setting, for a collaborative experience that explores the newest understanding of metabolic diseases and the development of future therapeutic modalities.

Since Dr. Gerald Reaven’s pioneering work crystallized the relationship between insulin resistance (IR), diabetes, obesity, CVD, the Congress’ focus has expanded to cover the kidney, liver, brain, bone, cancer, and more. The congress addresses dyslipidemia, atherosclerosis, hypertension, hypercoagulation, inflammation, and highlights the interaction of Diabetes-Cardio-Renal and Metabolic Diseases. It provides the newest clinical updates on pharmaceutical interventions such as GLP1ra, SGLT2i’s, PCSK9i’s, MRA and IPE to name a few. The goal is to understand the state-of-the-art pathophysiology, new medical interventions, and to develop appropriate comprehensive clinical management strategies.

To make basic and clinical research topics relevant to clinical medicine, following each session there will be live Q&A and a discussion on implications to clinical practice. To promote more interaction with faculty and provide further insights there will be longer breaks and social events.

The Congress attracts state-of-the-art abstracts with young up-and-coming researchers as well as recognized leaders from around the globe. The abstracts will be published in *Metabolism* (impact Factor 13.95), a peer-reviewed journal and also available for 90 days on demand,

The congress is featured by many media outlets with proceedings featured in global medical news venues such as Heallo, Medscape, Endocrinology & Cardiology Today, Clinical Endocrinology News, Practical Cardiology, HCP Live, and more, while articles are being published in peer-reviewed journals like Journal of Diabetes, Endocrine Practice, Metabolism, Diabetes & Vascular Disease Research, Diabetes and its complications and others.

PROGRAM OBJECTIVES

The program is designed to evaluate both clinical and basic science aspects of diabetes, obesity, ASCVD CKD, Fatty Liver and associated metabolic diseases. The goal is to understand pathophysiology, and to develop appropriate comprehensive clinical management plans.

Upon completion of this meeting, participants should be able to:

- Describe the relationship between diabetes, obesity, kidney disease, and heart disease
- Implement best practices for the prevention and management of CKD, HF and CVD

- Describe the recommended uses of SGLT2 inhibitors for the treatment of HF
- Understand the contemporary role of SGLT2 inhibitors in CKD with and without diabetes
- Describe the benefits of GLP1-RAs in Diabetes, Obesity in patients with ASCVD or at risk of ASCVD events
- Evaluate the evidence supporting the use of new and emerging therapies to reduce cardiovascular mortality in patients with cardio-renal- metabolic diseases
- Explain the roles of diabetes and insulin resistance in the development of CKD, HF, ASCVD and Fatty Liver
- Evaluate the impact on clinical practice of new

CVOTs in patients with diabetes and cardiometabolic diseases

- Discuss the effects of insulin resistance on the heart, kidney, and liver
- Design therapeutic regimens for patients with multiple cardiometabolic and renal disorders that capitalize on agents with broad effects across the spectrum of these comorbidities
- Utilize technology to enhance effectiveness of therapeutics
- Describe the direct and indirect impact of COVID-19 pandemic on patient health

TARGET AUDIENCE

This educational initiative is designed for endocrinologists, cardiologists, nephrologists, family physicians, internists, diabetologists, gastroenterologists, pediatricians, OB/GYN, researchers, nurse practitioners, physician assistants, dietitians, diabetes educators, and other healthcare professionals interested in the pathophysiology, prevention, and treatment of diabetes, obesity, CVD, CKD, HF, NAFLD/NASH and associated conditions, as well as the effect of these conditions on health and society.

7:00 am Pre-Registration

7:00 am – 8:00 am **EXHIBIT HALL OPEN | Continental Breakfast**
8:00 am – 8:15 am Welcome & Introduction | Pre-CME Questions

SESSION 1 **20TH WCIRDC CELEBRATION – A TRIBUTE TO GERALD REAVEN**
Chair: Ralph DeFronzo, MD

8:15 am	Insulin Resistance in T2DM Molecular and Clinical Considerations	Lawrence J. Mandarino, PhD
8:35 am	Fat/Adipocytes and Insulin Resistance	Philipp Scherer, PhD
8:55 am	Insulin Resistance and Cardiovascular Disease	Ralph A. DeFronzo, MD
9:15 am	Insulin Resistance, Insulin Secretion, Insulin Clearance: Who is the Culprit?	Steven Kahn, MD
9:35 am – 9:55 am	Panel Discussion and Q&A	

9:55 am – 10:25 am **REFRESHMENT BREAK**

SESSION 2 **COVID 19 & Metabolism**
Chairs: Chris K. Guerin, MD • Ronald Krauss, MD

10:25 am	Racial Health Disparities in Cardiovascular Disease During the COVID-19 Pandemic	Karol Watson, MD, PhD
10:45 am	Obesity and Insulin Resistance in Acute and Long Covid	Tracey McLaughlin, MD
11:05 am	Cardiovascular Sequelae of COVID-19 in Adults – ACC Experts Pathway	Pam Taub, MD
11:25 am - 11:40 am	Panel Discussion and Q&A	

MEET THE EXPERTS
11:40 am – 12:30 pm

Ralph DeFronzo, MD
George Grunberger, MD
Norman Lopor, MD
Yehuda Handelsman, MD

CONCURRENT SESSIONS

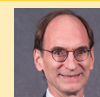
Insulin Resistance - Intensive Management of DM • **Sierra C/D**
Technology • **Club**
Cardiac Imaging • **Hiro**
DM-Cardio-Renal-Metabolic: Global Approach • **Salon 6AB**

12:30 pm – 1:30 pm **LUNCH BREAK**

12:40 pm – 1:25 pm **LUNCH SESSION NON-CME PRODUCT THEATER HALL**
Title: Evolving Perspectives in Hypercortisolism: A Panel Discussion
Supported by: **Corcept Therapeutics**



Richard Auchus, MD, PhD



David Brown, MD, PhD



Daniel Einhorn, MD

SESSION 3 **Metabolism & WCIRDC - Joint Session**
Chair: Christos Mantzoros, MD, PhD

1:30 pm	Targeting Sarcopenic Obesity to Mitigate Risk of Cardiovascular Disease	John P. Kirwan, MSc, PhD
1:50 pm	Glucose is not always sweet: Mechanisms, Presentation, & Treatments of DM Co-Morbidities	Luigi Gnudi, MD, PhD
2:10 pm	Daily Coating of the Intestine Impact on Weight Loss and Dysglycemia	Ali Tavakkoli, MD
2:30 pm – 2:45 pm	Panel Discussion and Q&A	

SESSION 4 **GERALD REAVEN DISTINGUISHED LEADER IN INSULIN RESISTANCE – 2020 AWARD**

2:45 pm Presented by Sonia Caprio, MD
2:50 pm KEYNOTE Leadership in Addressing Unmet Clinical Needs in Metabolism- an American Odyssey From the Bedside to Nucleoside and Back

Christos Mantzoros, MD, PhD



3:20 pm – 3:30 pm Q&A

3:30 pm – 4:00 pm **REFRESHMENT BREAK**

SESSION 5 **Diabetes Management Circa 2022**
Chairs: Tracey McLaughlin, MD, MS • Richard Pratley, MD

4:00 pm	Fused Incretins - Mechanisms of Action	Jonathan E. Campbell, PhD
4:20 pm	2023 - Incretins in the Management of Diabetes	Juan Pablo Frias, MD
4:40 pm	2022 ADA-EASD Consensus Management of Hyperglycemia	George Grunberger, MD
5:00 pm	CGM- The VA Experience	Peter Reaven, MD
5:20 pm – 5:40 pm	Panel Discussion and Q&A	

SESSION 6 **Fatty Liver Disease & The Heart**
Chairs: Derek LeRoith, MD • George Grunberger, MD

5:40 pm	New Developments in NASH	Rohit Loomba, MD
6:00 pm	Interplay Between Non-Alcoholic Fatty Liver & the Heart	Bart Staels, PhD
6:20 pm – 6:30 pm	Panel Discussion and Q&A	

6:30 pm – 7:30 pm WELCOME & POSTER RECEPTION AT EXHIBIT HALL

7:30 pm - 9:15 pm **CME DINNER SYMPOSIUM**
CKD AND HEART FAILURE - THE NEW EPIDEMIC
Chairs: Ralph DeFronzo, MD • Yehuda Handelsman, MD

Supported by an Education Grant from: **ASTRAZENECA**



7:35 pm	Introduction & Pre CME Questions	Yehuda Handelsman, MD
7:45 pm	Epidemiology of HF & CKD in the General Population	Ralph DeFronzo, MD
8:00 pm	Guideline Directed Management of Heart Failure	Biykem Bozkurt, MD, PhD
8:15 pm	State of the Art Management of CKD	Robert Toto, MD
8:30 pm	The Intersection of CKD and HF	Stephen Greene, MD
8:45 pm	Q&A Panel Discussion: CKD and HF the Chicken and the Egg Moderator: Yehuda Handelsman, MD	Yehuda Handelsman, MD
9:10 pm	Post CME Questions	
9:15 pm	Adjourn	

FRIDAY, DECEMBER 2, 2022

7:00 am – 8:00 am **EXHIBIT HALL OPEN**

7:00 am – 7:45 am **BREAKFAST SESSION NON-CME PRODUCT THEATER HALL**
Title: Jardiance® (empagliflozin) tablets: A Review of the Latest Data

Supported by: **Boehringer Ingelheim Pharmaceuticals, Inc. and Lilly USA, LLC**



Matthew Budoff, MD



Norman Elliott Lopor, MD, FACC

7:55 am – 8:05 am	Summary of Day 1	Zachary Bloomgarten, MD
8:05 am – 8:10 am	Pre-CME Questions	

SESSION 7 **Contemporary Approach to Heart Failure**
Chairs: Vivian Fonseca, MD • Erin Michos, MD

8:10 am	Biomarkers in Early Identification, Monitoring & Prognostic Value of Heart failure	Alan Maisel, MD
8:30 am	Management of HF- 2022 GLs and Beyond	Gregg Fonarow, MD
8:50 am - 9:00 am	Panel Discussion and Q&A	

SESSION 8 **Insulin Resistance Today & Tomorrow**
Chairs: Richard Bergman, PhD • Philipp Scherer, MD

9:00 am	PATAS- Ameliorate Insulin Resistance, Diabetes and Comorbidities by Targeting Adipocytes	Vincent Marion, PhD
9:20 am	Fatty Pancreas Disease	Richard Pratley, MD
9:40 am	Bile Acids & Gut Microbiota - Link with Metabolism and Inflammation in Insulin Resistance and NASH	Bart Staels, PhD
10:00 am – 10:15 am	Panel Discussion and Q&A	

10:15 am – 10:45 am **REFRESHMENT BREAK**

SESSION 9

From Childhood Risks to Diseases in Adults

Chairs: Sonia Caprio, MD • Alan Sinaiko, MD

10:45 am	Mechanistic Insight Into the Heterogeneity of Glucose Response in Youth with Obesity	Sonia Caprio, MD
11:05 am	Early Kidney Disease in Youth and Young Adults with Type 2 Diabetes	Petter Bjornstad, MD
11:25 am	Childhood Cardiovascular & DM Risks leading to Adult Diabetes & Cardiovascular Events	Alan Sinaiko, MD
11:45 am – 12:00 pm	Panel Discussion and Q&A	

SESSION 10

The Early Intervention

Chair: Peter Grant, MD

Yehuda Handelsman, MD

12:00 pm – 12:25 pm	The Early Intervention & Intensive Therapy in T2D Cardio Renal Metabolic Disease
12:25 pm – 12:30 pm	Q&A

12:30 pm – 1:30 pm LUNCH BREAK

12:40 pm – 1:25 pm LUNCH SESSION NON-CME PRODUCT THEATER HALL

Title: Mounjaro (tirzepatide) Product Theater
Supported by: **Eli Lilly**

Juan Pablo Frias, MD



SESSION 11

A New Frontier in Microvascular Complications of T2DM

Chairs: Mark Kearney, MD • Peter Grant, MD

1:30 pm	Microvascular Disease: The Wrong Targets?	Peter J. Grant, MD
1:50 pm	Cardiac Microvascular Disease: Cinderella Comes to the Ball	Robert Chilton, DO
2:10 pm	Unifying Mechanisms of Endothelial Cell Crosstalk	Mark T Kearney, MD
2:30 pm – 2:45 pm	Panel Discussion and Q&A	

SESSION 12

Cardiometabolic Associated Women's Health

Chairs: Pam R. Taub, MD • Matthew Budoff

2:45 pm	Contemporary Approach to Cardiovascular Care for Women	Martha Gulati, MD
3:05 pm	Pregnancy Associated Cardiomyopathy - Pathophysiology & Associated Conditions	Erin Michos, MD
3:25 pm	Lipids in Women Across the Lifespan	Erin Michos, MD
3:45 pm – 4:00 pm	Panel Discussion and Q&A	

4:00 pm – 4:30 pm REFRESHMENT BREAK

SESSION 13

A Glimpse into the Future - What's in the Pipeline? Non-CME

Chairs: Ralph DeFronzo, MD • Christos Mantzoros, MD, PhD

4:30 pm	AstraZeneca	Helen Yeh, PhD
4:45 pm	Amgen	Erik Magnus Ohman, MD
5:00 pm	Abbot	Marc Taub, PhD
5:15 pm	Bayer	Martin Van Eickels, MD
5:30 pm	Novo Nordisk	Kevin Grove, PhD
5:45 pm – 6:00 pm	Panel Discussion and Q&A	

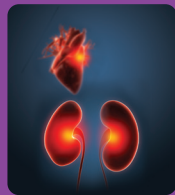


HOLLYWOOD

6:00 pm - 7:30 pm

CME DINNER SYMPOSIUM
NEW HORIZONS IN THE MANAGEMENT OF DIABETES KIDNEY DISEASE

Supported by Educational Grant from BAYER



Chairs: Matthew Weir, MD | Yehuda Handelsman, MD

- 6:00 pm Introduction & Pre CME Questions
- 6:10 pm CKD in Diabetes-Prevalence, Pathophysiology Impact on Cardiometabolic Diseases
- 6:25 pm Diagnosing DKD- Screening, Methodology Role of Guidelines
- 6:45pm New Treatment Paradigm of DKD the Role of Non-Steroidal MRA
- 7:05pm **Q&A Panel Discussion:** The Future is Here- Management of DKD
- Moderator:** Matthew Weir, MD
- 7:25pm Post CME Questions
- 7:30pm Adjourn

Yehuda Handelsman, MD
Erin Michos, MD
Matthew Weir, MD
Peter Rossing, MD, DMSc

7:30 pm - 9:00 pm

ABSTRACT ORAL PRESENTATION Sierra C/D **Cheese and Wine**

Abstract Committee: Vivian Fonseca, MD • George Grunberger, MD • Derek LeRoith, MD
Philip Levy, MD • Christian Mende, MD • Richard Pratley, MD • Matthew Weir, MD
Abstracts are published in **Metabolism** Editor-in-Chief: **Christos S. Mantzoros, MD, PhD**

Zachary Bloomgarden, MD, Chair



SATURDAY, DECEMBER 3, 2022

7:00 am - 8:00 am

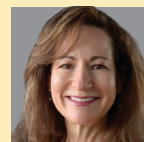
Registration

7:00 am - 7:45 am

BREAKFAST SESSION NON-CME PRODUCT THEATER HALL

Title: Collaborative Care for T2DM: The Importance of a Multidisciplinary Care Team to Improve T2DM Patient Outcomes
Supported by: **Boehringer Ingelheim and Lilly Inc**

Pamela R. Kushner, MD



7:55 am
8:00 am
8:10 am - 8:15 am

- Summary of Day 2
- Oral Abstract Winner Award Presentation
- Pre-CME Questions

Zachary Bloomgarden, MD

SESSION 14

Implementations Approach to Clinical Care

Chairs: Robert Chilton, DO • Erin Michos, MD

8:15 am
8:35 am
8:55 am - 9:05 am

- Cardiometabolic Alliance Patient-Level Registry Data
- Remote, Algorithmic Management of Cardio-Metabolic Disorders at Scale: Disrupting Medicine?
- Panel Discussion and Q&A

Mikhail Kosiborod, MD
Jorge Plutzky, MD

SESSION 15

CKD in Obesity & Diabetes

Chairs: Samuel Klein, MD • Christian Mende, MD

9:05 am
9:25 am
9:45 am - 9:55 am

- Obesity and Dysmetabolism as Risk Factors for CKD
- CKD 3 as CV Risk Equivalent
- Panel Discussion and Q&A

Matthew Weir, MD
Matthew Budoff, MD

9:55 am - 10:10 am

REFRESHMENT BREAK

SESSION 16

Atherosclerosis Cardiovascular Disease

Chairs: Mikhail Kosiborod, MD • Jorge Plutzky, MD

10:10 am
10:30 am
10:50 am - 11:00 am

- Contemporary Management of Peripheral Artery Disease
- CVOT - 2022 Update
- Panel Discussion and Q&A

Naomi M. Hamburg, MD
Martha Gulati, MD

SESSION 17

11:00 am
11:05 am
11:35 am – 11:45 am

GERALD REAVEN DISTINGUISHED LEADER IN INSULIN RESISTANCE – 2022 AWARD

Presented by Peter Grant, MD
KEYNOTE Using Predictive Analytics to Improve Diabetes Care
Q&A

Vivian Fonseca, MD



11:45 am - 12:30 pm LUNCH BREAK / CHECK OUT

11:55 am – 12:40 pm

LUNCH SESSION NON-CME PRODUCT THEATER HALL

Title: An Overview of the FreeStyle Libre 3 system
Supported by: **Abbott Diabetes**

George Grunberger, MD



SESSION 18

**Lancet, Diabetes and Endocrinology & WCIRDC Joint Session
Contemporary Issues in Diabetes**

Chairs: Marta Koch, PhD • Derek LeRoith, MD

12:45 pm
1:05 pm
1:25 pm
1:45 – 2:00 pm

Epidemiology of Diabetes and Clinical Characteristics
Heterogeneity of Type 2 Diabetes Phenotypes
The Role of Non Insulin Interventions in T1D
Panel Discussion and Q&A

Shivani Misra, MD
Paul Franks, MD, PhD
Michelle Van Name, MD

SESSION 19

Dyslipidemia and ASCVD

Chairs: Paul Jellinger, MD • Chris Guerin, MD

2:00 pm
2:20 pm
2:40 pm – 2:50 pm

Remnant Lipoproteins: The Rediscovered CVD Risk Factor
LDL and Lp(a) – The Interplay of the Bad and “Badder”- Approach to Management
Panel Discussion and Q&A

Norman Lepor, MD
Christie Ballantyne, MD

SESSION 20

Mitochondria, NAFLD/NASH & Cardiometabolic Disease

Chair: Bart Staels, MD

2:50 pm – 3:10 pm
3:10 pm – 3:15 pm

Targeting Hepatic Mitochondrial Metabolism to Treat NAFLD/NASH and Cardiometabolic Disease
Q&A

Gerald Shulman, MD, PhD

3:15 pm – 3:30 pm

REFRESHMENT BREAK

SESSION 21

Obesity, Diets & Health

Chairs: Bart Staels, MD • Richard Pratley, MD

3:30 pm
3:40 pm
4:00 pm
4:20 pm
4:40 pm
5:00 pm – 5:15 pm

Late Breaking: A Phase 1 Study of AMG 133 in Subjects with Obesity
Energy Balance of Obesity and Weight Loss
Effect of Weight Loss Induced by Diet +/- Exercise on Metabolic Function
Clinical Efficacy of Time Restricted Eating in People: Hope or Hype?
Managing Obesity Circa 2022 - The New & the Newer
Panel Discussion and Q&A

Jane Parnes, MD
Kevin Hall, PhD
Samuel Klein, MD
Max Petersen MD, PhD
Eduardo Grunvald, MD

5:15 pm - 6:00 pm

CLINICAL WORKSHOP

Diabetes
Lipids
Hypertension/Kidney

Concurrent Sessions

Yehuda Handelsman, MD • George Grunberger, MD
Paul Jellinger, MD • Paul Rosenblit, MD
Christian Mende, MD

Cheese & Wine

Sierra C/D
Club

Sierra B



FACULTY 2022



Yehuda Handelsman, MD, Chair
FACP, FNLA, FASPC, MACE
Metabolic Institute of America
Chair Scientific Advisory Board, DCMI
Diabetes, CardioRenal & Metabolism Institute
International Committee for Insulin Resistance
Tarzana, California



Christie M. Ballantyne, MD, FACP, FACC
Chief, Sections of Cardiology and Cardiovascular
Research Professor, Departments of Medicine
Genetics & Physiology Director
Center for Cardiometabolic Disease Prevention
Baylor College of Medicine
Houston, Texas



Richard N. Bergman, PhD
Alfred Jay Firestein Chair in Diabetes Research Professor
Department of Biomedical Sciences
Cedars-Sinai Director
Sports Spectacular Diabetes and Obesity Wellness
and Research Center (SSDOWRC)
Professor-in-Residence, Department of Medicine, UCLA
Los Angeles, California



Petter Bjornstad, MD
Assistant Professor of Endocrinology and Renal Diseases
and Hypertension University of Colorado
Anschutz Medical Campus Children's Hospital Colorado
Aurora, Colorado



Zachary T. Bloomgarden, MD, MACE
Clinical Professor Department of Medicine
Icahn School of Medicine at Mount Sinai
Editor, The Journal of Diabetes
New York, New York



Biykem Bozkurt, MD, PhD
FHSA, FACC, FAHA
Mary and Gordon Cain Chair and Professor of Medicine
Associate Provost of Faculty Affairs Senior Associate
Dean of Faculty Development Senior Associate
Editor for Circulation AHA/ASA Journals
Editor-in-Chief of Journal of the
American College of Cardiology
Baylor College of Medicine
Houston, Texas



Matthew J. Budoff, MD
FACC, FAHA
Professor of Medicine
David Geffen School of Medicine at UCLA
Endowed Chair of Preventive Cardiology
Program Director, Director of Cardiac CT
Lundquist Institute
Harbor-UCLA Medical Center, Division of Cardiology
Los Angeles, California



Jonathan E. Campbell, PhD
Associate Professor of Medicine
Duke University
Duke Molecular Physiology Institute
Durham, North Carolina



Sonia Caprio, MD
Professor of Pediatric Endocrinology
Yale University School of Medicine
New Haven, Connecticut



Robert J. Chilton, DO
FACP, FACC, FAHA, MACOI, FASCAI
Professor of Medicine
Department of Medicine
Division of Cardiology
The University of Texas Health Science Center
San Antonio, Texas



Ralph A. DeFronzo, MD
Professor of Medicine Chief
Diabetes Division
University of Texas Health Science Center
San Antonio, Texas



Gregg C. Fonarow, MD, FACC, FAHA, FHSA
Eliot Corday Professor in Cardiovascular Medicine and
Science, Director, Ahmanson-UCLA Cardiomyopathy
Center, Ronald Reagan-UCLA Medical Center Co-Director,
UCLA Preventative Cardiology Program Chief
UCLA Division of Cardiology David Geffen
School of Medicine at UCLA
Los Angeles, California



Vivian A. Fonseca, MD, FRCP
Professor of Medicine and Pharmacology
Assistant Dean for Clinical Research
Tullis Tulane Alumni Chair in Diabetes
Chief, Section of Endocrinology
Tulane University Health
Sciences Center
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Paul Franks, MD, PhD, MPhil, MS, FTOS
Head, Translational Medicine Scientific Director in
Medical Science, Novo Nordisk Foundation Copenhagen,
Denmark Professor and Deputy Director of Genetic
Epidemiology Lund University Diabetes Centre
Malmö, Sweden



Juan Pablo Frias, MD
Medical Director and Principal Investigator
Velocity Clinical Research
Los Angeles, California



Luigi Gnudi, MD, PhD
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Consultant in Diabetes and Endocrinology
King's College London
London, England



Peter J. Grant, MD, FRCP, FMedSci
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Honorary Consultant Physician
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Leeds Teaching Hospitals NHS Trust
Division of Cardiovascular & Diabetes Research
LIGHT Laboratories
Leeds, United Kingdom



Jennifer Green, MD
Professor of Medicine
Duke University Medical Center
Division of Endocrinology
Duke Clinical Research Institute
Durham, North Carolina



Stephen Greene, MD, FACC
Assistant Professor, Division of Cardiology
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REGISTRATION INFORMATION

www.wcir.org/registration

Email info@tmioa.com To register by phone (818) 342-1889

All 20th WCIRDC participants must be vaccinated in order to attend the live in person meeting.
For further information please contact info@tmioa.com

CME Accreditation:

For CME questions related to WCIRDC, please contact our CME Coordinator Renee Asp at renee@aspencmehelp.com

This activity was planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint providership of PESI Inc. and the Metabolic Endocrine Education Foundation (MEEF). PESI Inc. is accredited by the ACCME to provide continuing medical education for physicians.

AMA PRA Designation Statement:

PESI Inc. has designated this Other (Live and Internet Live) activity for a maximum of 28.25 AMA PRA Category 1 Credit(s)[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

MOC Points with ABIM:

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn MOC points of Medical Knowledge MOC points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Total qualifying MOC points 28.25

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AAPA accepts Category 1 credit from AOACCME, Prescribed credit from AAFP, and AMA PRA Category 1 Credit[™] for the PRA from organizations accredited by ACCME.

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For the purpose of re-certification, the American Nurses Credentialing Center accepts AMA PRA Category 1 Credit[™] issued by organizations accredited by the ACCME (Accreditation Council for

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CA Nurses:

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CDE:

The National Certification Board for Diabetes Educators recognizes courses sponsored by PESI Inc. as approved ACCME provider. Total qualifying continuing education hours 28.25

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All attendees must have completed and submitted an online course attendance/evaluation immediately

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* For Physicians to have credits recorded to ACCME PARs for licensing and certification board records, physicians must provide: 1) State of licensure, 2) license ID #, 3) Birthdate - month and day.

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ACCOMMODATIONS:

The 20th Annual World Congress on Insulin Resistance, Diabetes & CVD (WCIRDC) will be held at the prestigious Hilton Universal City Hotel. The majestic Hilton Hotel is situated on a high hill above the Los Angeles entertainment district, near Universal Studios Hollywood and City Walk. The hotel is located a block from the main entrance of Universal Studios Hollywood and is also a 3.5-mile drive to Pantages Theatre for Broadway shows. This 24-story hotel offers upscale rooms with panoramic views of the Hollywood Hills and Universal Studios.

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Guests can also call In-House Reservations Dept. at 818-623-1434 from 8:30am-5pm PST. Please reference the group name: **WCIRDC**



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- California Chapter of the American College of Cardiology (CAACC)
- International Federation for the Surgery of Obesity and Metabolic Disorders (IFSO)
- American Society of Endocrine Physician Assistants (ASEPA)

Associated Organizations

- American Society for Preventive Cardiology (ASPC)
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- Pacific Lipid Association
- World Obesity Federation
- American Academy of Physician Assistants (AAPA)
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- Endocrine Nurses Society (ENS)
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