

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Uncomplicating Diabetes: Reducing the Burden of Diabetes Related End-Organ Injury (J7)

Scientific Organizers: Mark E. Cooper, Thomas M. Coffman, Daniel Timmermann and Susan Quaggin

Supported by the Directors' Fund

Vascular Biology and Human Diseases: From Molecular Pathways to Novel Therapeutics (J8)

Scientific Organizers: Elisabetta Dejana, Anne C. Eichmann and Gavin O. Thurston

February 25-March 1, 2018 • Eldorado Hotel & Spa • Santa Fe, New Mexico, USA

Supported by the Directors' Fund

Abstract & Scholarship Deadline: / Abstract Deadline: / Discounted Registration Deadline:

SUNDAY, FEBRUARY 25

Arrival and Registration

MONDAY, FEBRUARY 26

Welcome and Keynote Address (J7)

Steven Kahn[†], Veterans Administration Puget Sound Health Care System and University of Washington, USA
Current Management of Type 2 Diabetes

Welcome and Keynote Address (J8)

Kari K. Alitalo[†], University of Helsinki, Finland
Therapeutical Potential of Vascular Growth Factors

New Treatments in Diabetes (J7)

Daniel J. Drucker[†], Lunenfeld-Tanenbaum Research Institute, Mount Sinai Hospital, Canada
Extrapankreatic Effects of GLP-1 Agonists

Volker Vallon[†], University of California, San Diego, USA
SGLT2 Inhibition – Experimental

David Cherney[†], University of Toronto, Canada
SGLT2 Inhibition – Renal Effects in Man

Short Talk(s) Chosen from Abstracts

Vascular Growth Factors: Biological Relevance and Therapeutic Application (J8)

Michael Simons[†], Yale University, USA
The Multiple Roles of Fibroblast Growth Factors

Lena Claesson-Welsh[†], Uppsala University, Sweden
Phosphatases in Vascular Permeability and Angiogenesis

Shahin Rafii[†], Weill Cornell Medical College, USA
Angiocrine Functions of Endothelial Cells

Short Talk(s) Chosen from Abstracts

Lipids and Diabetic Complications (J7)

Svati H. Shah[†], Duke University Medical Center, USA
What Can We Learn from Lipidomics?

Katalin Susztak[†], University of Pennsylvania, USA
Lipids and Renal Tubular Injury in Diabetes

Weier Qi[†], Joslin Diabetes Center, USA
New Targets in Diabetic Renal Disease

Short Talk Chosen from Abstracts

Vascular Growth Factors: Receptors and Biological Role (J8)

Gou Young Koh[†], KAIST, South Korea
Vascular Protection by Angiopoietin

Gavin O. Thurston, Regeneron Pharmaceuticals Inc., USA
Endothelial Heterogeneity and Response to Anti-Vascular Therapy

M. Luisa Iruela-Arispe[†], University of California, Los Angeles, USA
Crosstalk between Signaling and Metabolism in the Vasculature

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 27

Endothelial Metabolism and Neurovascular Crosstalk (Joint)

Peter F. Carmeliet[†], University of Leuven, VIB, Belgium
Endothelial Cell Metabolism and Therapeutic Interventions

Susan Quaggin, Northwestern University, USA
Therapies on the Horizon of Diabetic Kidney Disease

Anne C. Eichmann, Yale University School of Medicine, USA
Neurovascular Cross Talk and Possible Pathological Implications

David L. Silver[†], Duke-NUS Medical School, Singapore
Brain Lipid Transport

Short Talk(s) Chosen from Abstracts

Mitochondria and Diabetic Complications (J7)

Richard J. Youle[†], NINDS, National Institutes of Health, USA
General Overview on Mito Maven

Chengxue Qin[†], Baker IDI Heart and Diabetes Institute, Australia
Mitochondria and Cardiac Dysfunction ± Diabetes

Michael P. Murphy[†], Medical Research Council, UK
Mitochondria – Drug Targets

Short Talk Chosen from Abstracts

Regulation of Endothelial Cell Differentiation in Development and Tissue Regeneration (J8)

Didier Y. R. Stainier[†], Max Planck Institute for Heart and Lung Research, Germany
Vascular Development in Zebrafish

Taija Mäkinen[†], Uppsala University, Sweden
The Identification of Lymphatic Endothelial Cell Progenitors

Kenneth D. Poss[†], Duke University Medical Center, USA
The Endocardium and Single Cell Analysis

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 28

Genomics and Epigenomics in Diabetic Complications (J7)

Eske Willerslev[†], University of Copenhagen, Denmark
What We Can Learn from State of the Art Genomics?

Mark I. McCarthy[†], University of Oxford, UK
Overview in Diabetes

Enrico Petretto[†], Duke-NUS Medical School, Singapore
Nephropathy

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Assam El-Osta[†], Bakeridi Heart Research Institute, Australia
Epigenetics

Short Talk(s) Chosen from Abstracts

Molecular Basis of Vascular Diversity (J8)

Ralf H. Adams[†], Max Planck Institute for Molecular Biomedicine, Germany
The Bone Marrow Vasculature

Costantino Iadecola[†], Cornell University, USA
The Diversity of Brain Microcirculation

Richard Daneman[†], University of California, San Diego, USA
The Molecular Mechanisms of the Blood Brain Barrier Differentiation

Jeremy Nathans[†], Johns Hopkins School of Medicine, USA
Frizzled Receptors in Development and Disease

Short Talk(s) Chosen from Abstracts

Oxidative Stress and Diabetic Complications (J7)

Patrick J. Pagano[†], University of Pittsburgh, USA
Overview ROS Maven

Harald Schmidt[†], Maastricht University, Netherlands
Nox/sGC Networks in CV Disease

Erding Hu[†], GlaxoSmithKline Pharmaceuticals, USA
Antioxidant Defence Nrf2 Agonists

Short Talk Chosen from Abstracts

Brain Vascular Pathology (J8)

Christer Betsholtz[†], Uppsala University, Sweden
The Establishment and Dysfunction of the Blood Brain Barrier

Elisabetta Dejana, FIRC Institute of Molecular Oncology, Italy
Genetic Vascular Malformations in the Brain

Berislav Zlokovic[†], University of Southern California, USA
Vascular Contribution to Alzheimer's Disease

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, MARCH 1

Inflammation, the Vasculature and Diabetic Complications (Joint)

Luke A. J. O'Neill[†], Trinity Biomedical Sciences Institute, Ireland
Plenary Immunologist or Inflammasome

Andrew J. Murphy[†], Baker Heart Research Institute, Australia
Progenitor Cells in Diabetic Complications

Lois Smith[†], Boston Children's Hospital, USA
Glucose and Lipid Metabolism in Retinopathy

Israel F. Charo[†], ChemoCentryx, Inc., USA
MCP-1 as a Target for Diabetic Complications

Short Talk(s) Chosen from Abstracts

Vasoactive Hormones in Diabetic Complications (J7)

Ariela Benigni[†], Mario Negri Institute for Pharmacological Research, Italy

Endothelin

Susan Gurley[†], Duke University, USA
Angiotensin II: Tissue Selective Effects

Merlin Thomas[†], Baker IDI Heart and Diabetes Institute, Australia
Novel Interactions of RAGE with Hormone Receptors

Hemodynamics and Endothelial Pathology (J8)

Martin Schwartz[†], Yale School of Medicine, USA
Fluid Shear Stress and Vascular Diseases

Naoki Mochizuki[†], National Cerebral and Cardiovascular Center Research Institute, Japan
The Vascular Cell Response to Flow

Tatiana V. Petrova[†], CHUV and University of Lausanne, Switzerland
Endothelial Cell Responses to Biomechanical Forces in Lymphatics

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J7)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (J8)

FRIDAY, MARCH 2

Departure