

THURSDAY, MARCH 26, 2020

1:00 - 1:10PM Welcome: Frédéric Jaisser, Conference Chair, INSERM U1138, Paris, France

1:10 - 1:50PM Senior Investigator Lecture
Massimiliano Caprio, MD, PhD
Full Professor of Endocrinology
Head - Laboratory of Cardiovascular Endocrinology IRCCS San Raffaele Pisana
Rome, Italy
MR in Novel Target Tissues: A Closer Look at the Adipocyte

SESSION I: ALDOSTERONE AND MR, RENAL AND METABOLIC OUTCOMES

1:50 - 2:05PM Clara Lefranc, Centre de Recherche des Cordeliers, INSERM, Sorbonne Université, USPC, Université Paris Descartes, Université Paris Diderot, Paris, France
Myeloid Mineralocorticoid Receptor Activation Alters Metabolism in HFD-Salt Fed Mice

2:05 - 2:20PM Bidisha Saha, UCSF, San Francisco, CA, USA
Direct Regulation of ENaC in the Aldosterone-Sensitive Distal Nephron

2:20 - 2:35PM Michael Hill, University of Missouri, Columbia, MO, USA
Deletion of the Alpha Subunit of ENaC and mTORC2 Inhibition Attenuate DOCA-Salt-Induced Endothelial Cell Dysfunction and Hypertension

2:35 - 2:50PM Waheed Shabbir, UCSF, San Francisco, CA, USA
Analysis the Effect of Acute Versus Chronic Inhibition of mTOR on Sodium and Potassium Conduction in a Heterologous Expression System

2:50 - 3:05PM Shadi Khadijeh Gholami, Brigham and Women's Hospital, Boston, MA, USA
mTORC1 Deficiency Modifies Volume Homeostatic Responses to Dietary Sodium in a Sex-Specific Manner

3:05 - 3:45PM Coffee Break

SESSION II: YOUNG INVESTIGATOR COMPETITION PRESENTATIONS

3:45 - 4:05PM Giacomo Rossitto, Clinica dell'Ipertensione, DIMED, University of Padua, Italy; Institute of Cardiovascular and Medical Sciences, University of Glasgow, UK
Excess Cortisol Excretion is Secondary to Glomerular Hyperfiltration in Primary Aldosteronism: Evidence Against a Prevalent "Connshing" Syndrome

4:05 - 4:25PM Thitinan Treearanuwattana, Brigham & Women's Hospital and Harvard Medical School, Boston, MA, USA
The Arg16/Gln27 Polymorphism of the β 2-Adrenergic Receptor Impacts Blood Pressure Levels in a Transgenic Mouse Model via Sex-specific Mechanisms

4:25 - 4:45PM Jamaira Victorio, University of Campinas – Campinas/SP– Brazil
Mineralocorticoid Receptor Mediates Sex-dependent Anticontractile Effect of Perivascular Adipose Tissue in Obese Mice

- 4:45 - 5:05PM Junhua Zhou, Queen Mary University of London (QMUL), UK
Double Mutation of GNA11/Q and CTNNB1 in Aldosterone-Producing Adenomas, Causing Reversible Hypertension in Puberty, Pregnancy or Menopause
- 5:30 - 7:30PM Moderated Poster Session and Reception

FRIDAY, MARCH 27, 2020

- 8:00 - 8:55AM *State of the Art Lecture*
C. Ronald Kahn, MD
Chief Academic Officer, Joslin Diabetes Center
Mary K. Iacocca Professor of Medicine, Harvard Medical School
Boston, MA
Insulin Signal Transduction and New Insights Into the Altered Signaling in Diabetes

- 8:55 - 9:25AM Coffee Break

- 9:25 - 10:05AM *Senior Investigator Presentation*
Iris Jaffe, MD, PhD
Executive Director, Molecular Cardiology Research Institute, Tufts Medical Center
Professor of Medicine, Tufts University School of Medicine
Smooth Muscle Cell Mineralocorticoid Receptors as Epigenetic Regulators of Vascular Aging

SESSION III: NEW MECHANISMS REGULATING MR SIGNALING AND PATHOPHYSIOLOGICAL IMPACT

- 10:05 - 10:20AM Jia Guanghong, University of Missouri School of Medicine, Columbia, MO
Enhanced Endothelial Mineralocorticoid Receptor Signaling Increases Sodium Channel Activity and Endothelium Stiffness: Role of miRNA-99a and mTOR2 Signaling
- 10:20 - 10:35AM Daigoro Hirohama, Research Center for Advanced Science and Technology, The University of Tokyo, Tokyo, Japan
Activation of Rac1-Mineralocorticoid Receptor Pathway in Podocyte Contributes to the Progression of Diabetic Kidney Disease
- 10:35 - 10:50AM Morag Young, Hudson Institute of Medical Research, Clayton, Australia
Novel Mechanisms of Mineralocorticoid Receptor Signalling Regulates Macrophage Function and Cardiac Tissue Inflammation in Male Mice
- 10:50 - 11:05AM Annayya Aroor, University of Missouri School of Medicine, Columbia, MO
Endothelial Cell-Specific Mineralocorticoid Deletion in Western Diet Fed Male Mice Ameliorates Diastolic Dysfunction
- 11:05 - 11:20AM Anna Gromotowicz-Poplawska, Brigham and Women's Hospital, Boston, MA, USA; Medical University of Bialystok, Poland
Striatin and Aldosterone-Mediated Thrombus Formation
- 11:20 - 11:35AM Diego Alvarez de la Rosa, Universidad de La Laguna, La Laguna, Spain
Mineralocorticoid and Glucocorticoid Receptors Adopt Distinct Quaternary Structures and can Form Heteromultimers that Affect Chromatin-binding Profiles

11:35 - 11:50PM **SESSION IV: FIVE MINUTE SHORT TALKS**

Speakers to be announced from moderated poster session winners.

11:50 - 1:00PM Luncheon and Presentation of Competition Awards

1:00 - 1:40PM

Senior Investigator Lecture

Fumitoshi Satoh, MD, PhD

Professor of Division of Clinical Hypertension, Endocrinology and Metabolism
Tohoku University Graduate School of Medicine

The New Devices of Diagnosis and Treatment for Hypertensive Patients

*~a CLEIA Aldosterone Measurement as a Substitute of LCMS and Esaxerenone,
a New Non-Steroidal MR Blocker ~*

SESSION V: TRANSLATIONAL AND CLINICAL UPDATES FOR PA

1:40 - 1:55PM

Cristian Carvajal, Pontificia Universidad Católica de Chile, Santiago, Chile

*Proteomic Profile of Urinary Exosomes Identifies ORM1, ORM2 and AFM Proteins as
Potential Biomarkers of Primary Aldosteronism*

1:55 - 2:10PM

Michael Stowasser, University of Queensland Diamantina Institute, Princess Alexandra
Hospital, Brisbane, Australia

Posture Responsive and Unresponsive Aldosterone-Producing Adenomas

2:10 - 2:25PM

Yuta Tezuka, University of Michigan, Ann Arbor, MI, USA

*Steroid Responses to Dynamic Testing Differs Between Unilateral and Bilateral
Primary Aldosteronism*

2:25 - 2:40PM

Marko Poglitsch, Attoquant Diagnostics GmbH, Vienna, Austria

*Angiotensin Based Biomarkers in Molecular Hypertension Profiling and Primary
Aldosteronism Case Detection*

2:40 - 2:55PM

Gian Paolo Rossi, University of Padova, Italy

*Effects of Mineralocorticoid and AT1 Receptor Antagonism on the Diagnosis of Primary
Aldosteronism (EMIRA Study)*

2:55 - 3:10PM

Nicholas Yozamp, Brigham and Women's Hospital, Harvard Medical School,
Boston, MA, USA

Acute Variability and Pulsatility of Aldosterone Production in Primary Aldosteronism

3:10 - 3:15PM

Primary Aldosteronism Foundation

3:15 - 3:45PM

Coffee Break

SESSION VI: GENOTYPES AND PHENOTYPES OF PA

3:45 - 4:00PM

Xilin Wu, Queen Mary University of London, UK

*Somatic Transmembrane Domain Mutations of a Cell Adhesion Molecule, CADM1,
Cause Primary Aldosteronism by Preventing Gap Junction Communication between
Adrenocortical Cells*

- 4:00 - 4:15PM Elena Azizan, The National University of Malaysia (UKM) Medical Centre, Malaysia
A Pilot Genome Wide Association Study (GWAS) on Primary Aldosteronism Patients in a Multi-ethnic Malaysian Cohort
- 4:15 - 4:30PM Jenifer Brown, Brigham and Women's Hospital, Harvard Medical School, Boston, MA
The Unrecognized Prevalence of Primary Aldosteronism: Implications for the Pathogenesis of Essential Hypertension
- 4:30 - 4:45PM Giulia Argentesi, William Harvey Research Institute (WHRI), Queen Mary University of London (QMUL), UK
Co-Driver Mutations of CTNNB1 Switch on Genes in H295R Cells Which Are Upregulated in Double Mutant Aldosterone Producing Adenomas
- 4:45 - 5:00PM John W Funder, Hudson Institute/Monash University, Melbourne, Australia
Primary Aldosteronism: Let Not the Perfect Drive Out the Good
- 5:00 - 5:15PM Closing Remarks
Frédéric Jaisser, INSERM U1138, Paris, France
Adina Turcu, University of Michigan, USA
Gordon Williams, Brigham & Women's Hospital, USA