

43rd Meeting of the International Aldosterone Conference

Thursday, March 15, 2018

1:00 - 1:10PM Welcome
Matt Luther, Conference Chair, Vanderbilt University, Nashville, TN, USA

SESSION I: NOVEL ALDOSTERONE SIGNALING

1:10 - 1:50PM Senior Investigator Presentation
David Pearce, MD, UCSF, San Francisco, CA, USA

1:50 - 2:05PM Herve Lefebvre, Normandie University, UNIROUEN, INSERM U1239,
Rouen University Hospital, Rouen, France
Role of Mast Cells in the Establishment and Control of the Mineralocorticoid Function

2:05 - 2:20PM Sanjay Ranjit, Brigham & Women's Hospital, Boston, MA, USA
Endoplasmic Reticulum Aminopeptidase-1 Plays a Novel Role in Salt Sensitivity of Blood Pressure

2:20 - 2:35PM Ross Feldman, Robarts Research Institute, London, Canada
Aldosterone Stimulates Prostate Cancer Cell Invasiveness via a MR-dependent Mechanism

2:35 - 2:50PM Cristobal Fuentes, Pontificia Universidad Catolica de Chile, Santiago, Chile
Aldosterone and Eplerenone Differentially Modulates Human Preadipocytes Hyperplasia

2:50 - 3:05PM Dungeng Peng, Vanderbilt University Medical Center, Nashville, TN, USA
Development of a Mass Spectrometry-based Assay for Sodium Transport-related Urinary Extracellular Vesicle Proteins

3:05 - 3:20PM Peter Fuller, Hudson Institute of Medical Research, Clayton, Victoria, Australia
Molecular Basis of the Evolutionary Switch for Progesterone from Mineralocorticoid Receptor Agonist to Antagonist

3:20 - 3:45PM BREAK

SESSION II: YOUNG INVESTIGATOR COMPETITION

3:45 - 4:05PM Daigoro Hirohama, The University of Tokyo, Tokyo, Japan
Aldosterone is Essential for Angiotensin II-induced Upregulation of Pendrin

4:05 - 4:25PM Kiyotaka Itcho, Hiroshima University, Hiroshima, Japan
Molecular Chaperone Calmegin is Up-regulated in Aldosterone-producing Adenoma and Associates with Aldosterone Production

4:25 - 4:45PM Ruth Morgan, University of Edinburgh, UK
20 β -Dihydrocortisol is an Endogenous Ligand of the Mineralocorticoid Receptor

4:45 - 5:05PM Julia Schewe, Heinrich Heine University Duesseldorf, Duesseldorf, Germany
CLCN2 Chloride Channel Mutations as Novel Cause of Familial Hyperaldosteronism Type II

- 5:05 - 5:15PM Conference Announcements
- 5:30 - 7:30PM Moderated Poster Session and Reception

Friday, March 16, 2018

- 8:00 - 8:55AM State of the Art Lecture
 Jens Titze, MD, Associate Professor of Molecular Physiology and Biophysics
 Vanderbilt University
Seeing the Sodium in Humans

SESSION III: CLINICAL OUTCOMES IN APA

- 8:55 - 9:35AM Senior Investigator Lecture
 Franco Mantero, MD, PhD, Professor of Endocrinology and Medicine
 Div. of Endocrinology, Department of Medical Sciences, University of Padua, Italy

- 9:35 - 9:50AM Mitsuhide Naruse, Kyoto Medical Center, Kyoto, Japan
National PA Registry-based Evidence for Clinical Practice Guideline of Primary Aldosteronism in Japan

- 9:50 - 10:05AM Martin Wolley, University of Queensland Faculty of Medicine, Brisbane, Australia
Seated Saline Suppression Testing for the Diagnosis of Primary Aldosteronism – A Validation Study

- 10:05 - 10:25AM BREAK

- 10:25 - 10:40AM Motoko Nomura, Keio University School of Medicine, Tokyo, Japan
Usefulness of Dexamethasone Suppression Test in the Diagnosis of Primary Aldosteronism Subtypes

- 10:40 - 10:55AM Yui Shibayama, Sapporo City General Hospital, Sapporo, Japan
Validation of the Effects of ACTH Administration on Bilateral Aldosterone Suppression in Adrenal Vein Sampling in Patients with Primary Aldosteronism

- 10:55 - 11:10AM Gian Paolo Rossi, University of Padova, Padua, Italy
Atrial Fibrillation as a Presentation of Primary Aldosteronism: Results of the Prospective PAPPHY Study

- 11:10 - 11:25AM Gregory Hundemer, Brigham & Women's Hospital, Boston, MA, USA
Renal Outcomes in Medically and Surgically Treated Primary Aldosteronism

- 11:25 - 11:40AM Mitsuha Morisaki, Keio University, Tokyo, Japan
Predictive Resolution Score of Hypertension after Surgery for Primary Aldosteronism

- 11:40 - 12:45PM Luncheon and Presentation of Young Investigator Competition Awards

- 1:00 - 1:40PM Senior Investigator Lecture
 Hirotaka Shibata, MD, PhD, Oita University, Oita, Japan
 Advisor to the Dean (East Kyushu Medical Valley Affairs)
 Vice Director, Oita University Hospital Blood Purification Center

SESSION IV: GENETICS AND ALDOSTERONE SYNTHESIS

- 1:40 - 1:55PM Adina Turcu, University of Michigan, Ann Arbor, MI, USA
Better Steroid Biomarkers than Cortisol for Adrenal Vein Sampling Interpretation
- 1:55 - 2:10PM Fabio Fernandes-Rosa, INSERM U970, PARCC, Paris, France
A Gain-of-Function Mutation in the CLCN2 Chloride Channel Gene Causes Primary Aldosteronism
- 2:10 - 2:25PM Kazutaka Nanba, University of Michigan, Ann Arbor, MI, USA
Genetic Characteristics of Aldosterone-Producing Adenomas in Black Americans
- 2:25 - 2:40PM Kei Omata, University of Michigan, Ann Arbor, MI, USA
Aldosterone-Producing Adenomas with KCNJ5 Mutations Exhibit Intratumor Heterogeneity
- 2:40 - 3:15PM BREAK

SESSION V: ALDOSTERONE AND VASCULAR FUNCTION

- 3:15 - 3:30PM Andrei Gilep, Institute of Bioorganic Chemistry NASB, Minsk, Belarus
Aldosterone Synthase: Structure-based Drug Design and Inhibition by Endocrine Disruptors
- 3:30 - 3:45PM John Hamlyn, University of Maryland Baltimore, Baltimore, MD, USA
Aldosterone Clouds in the Brain
- 3:45 - 4:00PM Annayya Aroor, University of Missouri, Columbia, MO, USA
Endothelium Mineralocorticoid Receptor Mediated Sodium Channel Activation Promotes Cardiovascular Stiffness and Diastolic Dysfunction in Female Mice
- 4:00 - 4:15PM Anna Gromotowicz-Poplawska, Medical University of Bialystok, Poland
Nongenomic Actions of Aldosterone are Involved in the First Stage of Thrombus Formation – The Effect on Blood Platelets and Fibrinolysis
- 4:15- 4:30PM Andrea Haas, Brigham & Women's Hospital, Boston, MA, USA
Female Sex and Coronary Microvascular Function in Individuals with Diabetes
- 4:30 - 4:45PM Mihail Zilbermint, NICHD, NIH, Bethesda, MD, USA
ARMCS Variants and Risk of Hypertension in African Americans: Minority Health-GRID Study
- 4:45 - Closing Remarks:
Matt Luther, Vanderbilt University, Nashville, TN, USA
Morag Young, Hudson Institute of Medical Research, Australia
Gordon Williams, Brigham & Women's Hospital, Boston, USA

Meeting Adjourns