Thursday, March 15, 2018

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

SESSION I: NOVEL ALDOSTERONE SIGNALING

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

1:50 - 2:05 PM  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 - 2:20 PM  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 - 2:35 PM  Ross Feldman, Robarts Research Institute, London, Canada  
Aldosterone Stimulates Prostate Cancer Cell Invasiveness via a MR-dependent Mechanism

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

2:50 - 3:05 PM  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 - 3:20 PM  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 - 3:45 PM  BREAK

SESSION II: YOUNG INVESTIGATOR COMPETITION

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

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

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

4:45 - 5:05 PM  Julia Schewe, Heinrich Heine University Duesseldorf, Duesseldorf, Germany  
CLCN2 Chloride Channel Mutations as Novel Cause of Familial Hyperaldosteronism Type II
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
ARMC5 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