
Full Program

Sunday

- 4:00 pm - 8:00 pm Arrival and Check-in
- 6:00 pm Dinner
- 7:30 pm - 7:40 pm Welcome / Introductory Comments by GRC Site Staff
- 7:40 pm - 9:30 pm **Keynote Session: Regulation and Genetics of the Renin-Angiotensin-Aldosterone System**
- Discussion Leader: **Curt Sigmund** (University of Iowa, USA)
- 7:40 pm - 7:50 pm Introduction by Discussion Leader
- 7:50 pm - 8:30 pm **Armin Kurtz** (University of Regensburg, Germany)
"Regulation of renin expression and secretion in the kidney, modes and mechanism"
- 8:30 pm - 8:40 pm Discussion
- 8:40 pm - 9:20 pm **Xavier Jeunemaitre** (French Institute of Health and Medical Research, France)
"Molecular genetics and pathways involved in patients with low renin and pseudo-aldosteronism"
- 9:20 pm - 9:30 pm Discussion

Monday

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Renin Angiotensin Aldosterone Blockers: Are Dual Specificity Inhibitors the Next Great Thing?**
- Discussion Leaders: **Lisa Cassis** (University of Kentucky) and **Jan Danser** (Erasmus MC, The Netherlands)
- 9:00 am - 9:30 am **Massimo Volpe** (University of Rome Sapienza, Italy)
"Shifting paradigms in the management of heart failure: rationale and clinical outcomes of dual angiotensin receptor-nepilysin inhibition as an evolution of the neurohormonal approach"
- 9:30 am - 9:40 am Discussion
- 9:40 am - 10:10 am **John Burnett** (Mayo Clinic)
"Guanylyl cyclase activation: key mechanism in the actions of dual angiotensin receptor and nepilysin inhibition"
- 10:10 am - 10:20 am Discussion

10:20 am - 10:50 am	Coffee Break
10:50 am - 11:20 am	Natalia Nalivaeva-Turner (University of Leeds, United Kingdom) "Substrates and regulation of neprilysin - therapeutic opportunities and limitations"
11:20 am - 11:30 am	Discussion
11:30 am - 12:30 pm	Short Talks Selected from Poster Abstracts
12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm - 8:00 pm	Regulatory Networks and Clinical Relevance Discussion Leader: Akira Nishiyama (Kagawa University Medical School, Japan)
6:00 pm - 6:25 pm	Pedro Jose (University of Maryland, USA) "Dopamine and angiotensin cross talk, friend and foe"
6:25 pm - 6:35 pm	Discussion
6:35 pm - 7:00 pm	Michaela Kuhn (University of Wurzburg, Germany) "Cell-specific actions of atrial and C-type natriuretic peptides counterregulate the cardiac effects of Angiotensin II"
7:00 pm - 7:10 pm	Discussion
7:10 pm - 7:25 pm	Short Talks Selected from Poster Abstracts
7:25 pm - 7:50 pm	Youhua Liu (University of Pittsburg Medical Center, USA) "Wnt/ β -catenin signaling and renin angiotensin system"
7:50 pm - 8:00 pm	Discussion
8:00 pm	Dinner

Tuesday

7:30 am - 8:30 am	Breakfast
8:30 am	Group Photo
9:00 am - 12:30 pm	New Roles for Renin, Renin Receptor and ACE in the Kidney - Highlights from the Gordon Research Seminar <i>The Gordon Research Seminar on Angiotensin is a unique forum for graduate students, post-docs, and other scientists with comparable levels of experience and education to present and exchange new data and cutting edge ideas.</i> Discussion Leaders: Thomas Coffman (Duke University Medical Center) and Rodrigo Fraga-Silva (Ecole Polytechnique Federale de

Lausanne - EPFL, Switzerland)

- 9:00 am - 9:25 am **Maria Louisa Sequiera-Lopez** (University of Virginia, USA)
"Renin cell progenitors in development and disease"
- 9:25 am - 9:35 am Discussion
- 9:35 am - 10:00 am **Jorge Giani** (Cedars Sinai Medical Center, USA)
"Renal tubular epithelial ACE is obligatory for experimental hypertension"
- 10:00 am - 10:10 am Discussion
- 10:10 am - 10:25 am Short Talks Selected from Poster Abstracts
- 10:25 am - 10:55 am Coffee Break
- 10:55 am - 11:20 am **Minolfa Prieto-Carrasquero** (Tulane University, USA)
"PRR in collecting duct"
- 11:20 am - 11:30 am Discussion
- 11:30 am - 11:45 am Talk Selected from the GRS
- 11:45 am - 11:50 am Discussion
- 11:50 am - 12:05 pm Talk Selected from the GRS
- 12:05 pm - 12:10 pm Discussion
- 12:10 pm - 12:25 pm Talk Selected from the GRS
- 12:25 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:30 pm Free Time
- 4:30 pm - 6:00 pm Poster Session
- 6:00 pm - 8:00 pm **Immunity, Inflammation and AT1 Receptors**
Discussion Leader: **Ulrich Wenzel** (UKE, Germany)
- 6:00 pm - 6:25 pm **Steven Crowley** (Duke University Medical Center)
"A role for inflammatory cytokines in the pathogenesis of hypertension"
- 6:25 pm - 6:35 pm Discussion
- 6:35 pm - 7:00 pm **Daniela Carnevale** (Neuromed Institute Rome, Italy)
"Neuroimmune interactions in Hypertension"
- 7:00 pm - 7:10 pm Discussion
- 7:10 pm - 7:25 pm Short Talks Selected from Poster Abstracts
- 7:25 pm - 7:50 pm **Duska Dragun** (Charite University Hospital Berlin, Germany)
"Structural and functional consequences of antibody mediated AT1R activation"
- 7:50 pm - 8:00 pm Discussion

8:00 pm Dinner

Wednesday

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **The Brain RAS / Salt and Metabolism**

Discussion Leaders: **Eric Lazartigues** (LSUHSC-New Orleans) and **Dominik Muller** (ECRC & Max-Delbruck Center, Germany)

9:00 am - 9:25 am **Yumei Feng** (University of Nevada, USA)
"Neuronal (pro)renin receptor in high-fat diet induced diabetes and obesity"

9:25 am - 9:35 am Discussion

9:35 am - 10:00 am **Javier Stern** (Georgia Regents University, USA)
"Novel insights into central mechanistic targets mediating AngII actions in the brain"

10:00 am - 10:10 am Discussion

10:10 am - 10:25 am Short Talks Selected from Poster Abstracts

10:25 am - 10:55 am Coffee Break

10:55 am - 11:20 am **Jens Titze** (Vanderbilt University, USA)
"Salt metabolism: from volume control to biological barrier formation"

11:20 am - 11:30 am Discussion

11:30 am - 11:50 am **Jonathan Jantsch** (Clinical University Regensburg, Germany)
"Salt storage creates biological barrier to ward off infection"

11:50 am - 12:00 pm Discussion

12:00 pm - 12:20 pm **Frederique Yannikouris** (University of Kentucky, USA)
"Adipocyte PRR, a new target to prevent Obesity-Hypertension?"

12:20 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:30 pm Free Time

4:30 pm - 6:00 pm Poster Session

6:00 pm - 8:00 pm **Technical Advances in Genome Editing and Optogenetics**

Discussion Leader: **Mingyu Liang** (Medical College of Wisconsin, USA)

6:00 pm - 6:25 pm **Aron Geurts** (Medical College of Wisconsin, USA)
"Genome editing in the rat and emerging resources of genetically modified rat models"

6:25 pm - 6:35 pm Discussion

6:35 pm - 7:00 pm	Michael Bader (Max Delbrück Center for Molecular Medicine, Germany) "Novel transgenic rodent models for the RAS"
7:00 pm - 7:10 pm	Discussion
7:10 pm - 7:25 pm	Short Talks Selected from Poster Abstracts
7:25 pm - 7:50 pm	Sergey Kasparov (University of Bristol UK, United Kingdom) "An overview of current optogenetic actuators and reporters"
7:50 pm - 8:00 pm	Discussion
8:00 pm	Dinner

Thursday

7:30 am - 8:30 am	Breakfast
8:30 am - 9:00 am	<u>Business Meeting</u> <i>Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair</i>
9:00 am - 12:30 pm	Recent Advances in the RAS Discussion Leaders: Toshiro Fujita (RCAST, The University of Tokyo, Japan) and Rhian Touyz (University of Glasgow, United Kingdom)
9:00 am - 9:20 am	Mark Chappell (Wake Forest University, USA) "An Intracellular Angiotensin-(1-7) System"
9:20 am - 9:30 am	Discussion
9:30 am - 9:50 am	Kenneth Gross (roswell park cancer institute) "Renin-expressing cell lineage and progenitor cell function during pancreatic neuroendocrine differentiation and development"
9:50 am - 10:00 am	Discussion
10:00 am - 10:20 am	Shigeru Shibata (University of Tokyo, Japan) "Uncovering pathways downstream of angiotensin II signaling in the distal nephron of the kidney"
10:20 am - 10:30 am	Discussion
10:30 am - 11:00 am	Coffee Break
11:00 am - 11:20 am	Sadashiva Karnik (Cleveland Clinic) "Molecular Recognition and Functional Selectivity Mechanisms of Angiotensin II Type 1 Receptor Blocking Drugs"
11:20 am - 11:30 am	Discussion
11:30 am - 11:50 am	Eric Krause (University of Florida) "Optogenetic dissection of 'angiotensin sensitive' brain circuits: implications for mental and cardiovascular health"

11:50 am - 12:00 pm	Discussion
12:00 pm - 12:20 pm	Katie Hood (University of Glasgow, United Kingdom) "Angiotensin(1-7) regulates vascular ET-1 signaling through Mas-ETBR interactions: Implications in pulmonary arterial hypertension"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm - 8:00 pm	MicroRNAs: Regulation, Function and Therapeutic Targets in Cardiovascular Diseases Discussion Leader: Michael Bader (Max Delbrück Center for Molecular Medicine, Germany)
6:00 pm - 6:25 pm	Mingyu Liang (Medical College of Wisconsin, USA) "MicroRNAs in Hypertension: From Cells to Human Subjects"
6:25 pm - 6:35 pm	Discussion
6:35 pm - 7:00 pm	Thomas Thum (Hannover Medical School, Germany) "Noncoding RNAs as diagnostics and therapeutic targets in cardiac remodeling"
7:00 pm - 7:10 pm	Discussion
7:10 pm - 7:25 pm	Short Talks Selected from Poster Abstracts
7:25 pm - 7:50 pm	Andrew Baker (University of Glasgow, United Kingdom) "miRNA regulation and function during vascular remodelling"
7:50 pm - 8:00 pm	Discussion
8:00 pm	Dinner

Friday

7:30 am - 8:30 am	Breakfast
9:00 am	Departure

Close