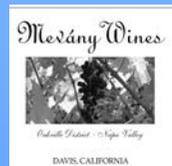


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Nip Chiamvimonvat
Ebenezer Yamoah



UC Davis Cardiovascular Symposium 2016

Systems Approach to Understanding Cardiac Excitation –Contraction Coupling & Arrhythmias

K⁺ channels and regulation

March 3 & 4

UC Davis Conference Center
550 Alumni Lane
UC Davis Campus

Organizing Committee

Donald Bers, Ye Chen-Izu,
Nipavan Chiamvimonvat, Eleonora Grandi
Consultants: Jeanne Nerbonne, Michael Sanguinetti



Thursday, March 3

Coffee and light pastries served at 7:30 am

- Session I** **K⁺ channel dysfunction and arrhythmia: from cell to whole heart**
8:00 – 8:30 K⁺ currents during the cardiac action potential – **Ye Chen-Izu**
8:30 – 9:00 Cardiac K⁺ channelopathies and arrhythmia – **Gideon Koren**
9:00 – 9:45 Panel discussion: Critical issues & Controversies – **James Weiss**
David Paterson, David Christini, Dobromir Dobrev,
Eleonora Grandi, Thomas O'Hara
9:45 – 10:00 Break
- Session II** **Voltage-gated K⁺ channels structure and function**
10:00 – 10:30 Experimental studies – **Francisco Bezanilla**
10:30 – 10:50 Modeling studies – **Vladimir Yarov-Yarovoy**
10:50 – 11:10 Modeling studies – **Sergei Noskov**
11:10 – 11:55 Panel discussion: Critical issues & Controversies – **Daniel Minor**
Peter Larsson, Jon Sack, Matthew Trudeau,
Jamie Vandenberg, Toby Allen
- 12:00 – 1:00 *Lunch on site for registered attendees*
- Session III** **K⁺ channel regulation I**
1:00 – 1:30 CaMKII regulation of K⁺ channels – **Stefan Wagner**
1:30 – 2:00 Function studies – **Jeanne Nerbonne**
2:00 – 2:45 Panel discussion: Critical issues & Controversies – **Robert Kass**
Brian O'Rourke, Leighton Izu, Tamas Banyasz, James Trimmer
2:45 – 3:00 Break
- Session IV** **K⁺ channel regulation II**
3:00 – 3:30 Experimental studies – **Jianmin Cui**
3:30 – 4:00 Modeling studies – **Randall Rasmuson**
4:00 – 4:45 Panel discussion: Critical issues & Controversies - **Gail Robertson**
Antonio Zaza, Isabelle Deschenes, Laszlo Csernoch,
Jordi Heijman, Crystal Ripplinger
4:45 – 5:15 Break
- 5:15 – 6:30 *Wine Reception - Conference Center Front Lobby*
7:00 – 9:30 *Dinner for registered attendees*

Friday, March 4

Coffee and light pastries served at 7:30 am

- Session V** **K⁺ channels regulated by Ca²⁺**
8:00 – 8:30 Experimental studies – **Nipavan Chiamvimonvat**
8:30 – 9:00 Modeling studies – **Zhilin Qu**
9:00 – 9:45 Panel discussion: Critical issues & Controversies – **Fernando Santana**
Manuel Navedo, Daisuke Sato, Eleonora Grandi, Heike Wulff
9:45 – 10:00 Break
- Session VI** **Ligand-gated K⁺ channels**
10:00 – 10:30 Experimental studies – **Jonathan Makielski**
10:30 – 11:00 Modeling studies – **Colin Nichols**
11:00 – 11:45 Panel Discussion: Critical issues & Controversies – **Jonathan Lederer**
Dobromir Dobrev, Catherine Proenza,
Yu-Fung Lin, Ursula Ravens
11:45 – 12:00 Break
- 12:00 – 1:00 *Lunch on site for registered attendees*
- Session VII** **Trafficking and sequestration of K⁺ channels**
1:00 – 1:30 Structure studies – **Henry Colecraft**
1:30 – 2:00 Function studies – **Brian Delisle**
2:00 – 2:45 Panel Discussion: Critical issues & Controversies – **Isabelle Deschenes**
Geoffrey Abbott, Aldrin Gomes, Fadi Akar,
Nipavan Chiamvimonvat, Ravi Balijepalli
2:45 – 3:00 Break
- Session-VIII** **Cardiac K⁺ channels as therapeutic targets**
3:00 – 3:30 Experimental Studies - **Michael Sanguinetti**
3:30 – 4:00 Modeling Studies - **Colleen Clancy**
4:00 – 4:45 Panel Discussion: Critical issues & Controversies – **Donald Bers**
Eric Sobie, Andras Varro, Heike Wulff, Ariel Escobar
5:00 Closing Remarks – **Donald Bers**