

SECOND ANNUAL

SoCal Metabolism Symposium

March 22, 2024
UC Irvine

Presented by Sanford Burnham Prebys, UCI, and USC

8:30 am Registration with light breakfast and coffee

9:25 am **Welcome address**
Cholsoo Jang, University of California, Irvine

Session I: Lipid metabolism

Moderated by Danielle Schmitt, University of California, Los Angeles

9:30 am **MEF2C regulates NK cell effector function and lipid metabolism**
Joey Li, University of California, Los Angeles

9:45 am **Connecting lysosomal cholesterol transport to p53-deficient cancer growth through PI5P4K signaling**
Ryan Loughran, Sanford Burnham Prebys

10:00 am **The inter-organelle crosstalk in hepatic lipid metabolism**
Madelaine Brearley-Sholto, University of California, Los Angeles

10:15 am **Role for intestinal Neurokinin 2 receptors in regulating enterocyte lipid droplets**
Pedro Perez, Scripps Research

10:30 am Coffee break

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Session II: Aging and developmental metabolism

Moderated by Kevin Tharp, Sanford Burnham Prebys

- 10:50 am **Deciphering age-related changes in hepatocyte identity: Insights into metabolic dysfunction-associated steatotic liver disease**
Jessica Proulx, Sanford Burnham Prebys
- 11:05 am **A metabolic atlas of aging**
Steven Pilley, University of Southern California
- 11:20 am **A metabolic atlas during cortical development**
Jessena Mil, University of California, Los Angeles
- 11:35 am **Orbitrap-based SQUAD metabolomics analysis applied to organ specific fuel rewiring**
Dominique Figueroa, Thermo Fisher Scientific
- 11:50 pm Lunch and **Poster Session I**

Session III: Cancer metabolism

Moderated by Christopher Halbrook, University of California, Irvine

- 1:20 pm **Spatial and temporal mapping of mitochondrial networks and bioenergetics in lung cancer**
Minqi Han, University of California, Los Angeles

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- 1:35 pm **Targeting Golgi pH in pancreatic cancer**
Cheska Marie Galapate, Sanford Burnham Prebys
- 1:50 pm **Targeting serine metabolism sensitizes glioblastoma to radiation therapy**
Justine Bailleul, University of California, Los Angeles
- 2:05 pm **Autophagy inhibition leads to an acquired dependence on pyrimidine synthesis and provides therapeutic vulnerability in PDAC**
Suzanne Dufresne, Salk Institute
- 2:20 pm Coffee break

Session IV: Energy metabolism and the microbiome
Moderated by Thomas Martinez, University of California, Irvine

- 2:40 pm **Circulating glycerate predicts resilience to fructose-induced hepatic steatosis**
Cuauhtemoc Ramirez, University of California, Irvine
- 2:55 pm **A PTER-dependent pathway of secondary taurine metabolism linked to energy balance**
Wei Wei, Stanford University
- 3:10 pm **Microbiome drug metabolism**
Yasmine Alam, University of California, Irvine

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3:25 pm **Hepatoglobin-related protein's new role as an insulin pathway enhancer**
Carlos Viesi, University of California, Irvine

3:40 pm Coffee break

Session V: Keynote Presentation

Moderated by Brooke Emerling, Sanford Burnham Prebys

4:00 pm **Redirecting cellular traffic to treat cancer and obesity**
Aimee Edinger, University of California, Irvine



4:55 pm **Closing Remarks**
Peter Mullen, University of Southern California

5:00 pm Happy Hour and **Poster Session II**

6:30 pm Depart

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