

Session 1

9:00 AM – 9:15 AM

Opening Remarks by Randy Hampton

9:15 AM – 9:45 AM

Kim Cooper, PhD – UC San Diego

“Tools and technologies to tackle complex genetic problems using mice”

9:45 AM – 10:15 AM

Alex Weitzel – UCSD Biology PhD Student

“A strategy for fast compound conditional knockouts in mice”

10:15 AM – 10:45 AM

Markita Landry, PhD – UC Berkeley

“Nanomaterials enable delivery of genetic material without transgene integration in mature plants”

10:45 AM – 11:00 AM

Coffee Break

11:00 AM – 11:30 AM

Maria Montiel-Gonzalez, PhD – Beam Therapeutics

“Site-directed RNA editing using engineered adenosine deaminases”

11:30 AM – 12:00 PM

Bruce Conklin, MD – UC San Francisco

“Decoding and repairing genetic disease with CRISPR and iPS cells”

12:00 PM – 12:30 PM

Keolu Fox, PhD – UC San Diego

“Anthropology and genomics”

12:30 PM – 1:30 PM

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Session 2

1:30 PM – 2:30 PM

Bioethics Panel moderated by Michael Kalichman, PhD

2:30 PM – 3:00 PM

Betul Kacar, PhD – University of Arizona

“Time traveling in the laboratory with the methods of evolution and synthetic biology”

3:00 PM – 3:15 PM

Coffee Break

3:15 PM – 3:45 PM AM

Alexis Komor, PhD – UC San Diego

“Investigating enzymatic mechanisms of adenine base editors”

3:45 PM- 4:15 PM

Stephanie Gamez – UCSD Biology PhD Student

“Broad dengue neutralization in mosquitos expressing an engineered antibody”

4:15 PM – 5:15 PM

Keynote speaker: Pamela Silver, PhD – Harvard University

“Designing living diagnostics and therapeutics”

5:15 PM – 5:30 PM

Closing Remarks

**Thank you to the Cellular and Molecular Genetics
Training Grant for providing the support for our 3rd
annual CMG Symposium!**

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