

Wednesday, June 17, 2015

CHANCE AND NECESSITY: FROM MOLECULES AND VIRUSES TO CELLS AND POPULATIONS II  
11:30 a.m. Salon A2

Chairs: **Betul Kacar**  
**Rika Anderson**

- 11:30 a.m. Kacar B. \* Gaucher E. A.  
[Engineering Modern Microbes with Ancient Genes to Understand Functional Innovation](#) [#7533]
- 11:45 a.m. Sherlock G. \* Levy S. Blundell J. Venkataram S. Dunn B. Chang J.  
Petrov D. Fisher D.  
[Exploring the Adaptive Mutational Spectrum Using Massively Tagged Populations of Experimentally Evolving Yeast](#) [#7337]
- 12:00 p.m. Anderson R. E. \* Kouris A. Seward C. Whitaker R. J.  
[Unraveling the Impact of Ecological Selection Pressures on the Pangenome of \*Sulfolobus Acidocaldarius\*](#) [#7053]
- 12:15 p.m. Hazen R. M. \* Grew E. S. Downs R. T. Golden J. Hystad G.  
[Mineral Ecology: Chance and Necessity in the Mineral Evolution of Terrestrial Planets](#) [#7086]
- 12:30 p.m. LUNCH BREAK