



Article of Significant Interest in This Issue

Dynamically Modeling How Antibiotics Alter the Gut Microbiota

The gut microbiota undergoes dramatic changes during antibiotic administration. However, the specific nature of these alterations is not well described or understood, and the ability to predict microbiota changes based on antibiotic treatment conditions is currently limited. Morjaria et al. (e00206-19) have developed a mechanistic model of antibiotic-induced microbiota changes by examining intestinal microbial composition over time, within fecal samples repeatedly collected from patients over the course of allogeneic hematopoietic stem cell transplantation. Using this model, they were able to characterize the impact of specific antibiotics and estimate the degree of disruption to the anaerobic microbiota.