

Karl Friedrich Bonhoeffer Award Lecture



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15 Sep 2017, 5 pm

Manfred Eigen Hall

MPI for Biophysical Chemistry
(Karl Friedrich Bonhoeffer Institute)

CRISPR Systems: Nature's Toolkit for Genome Editing

Gene editing with CRISPR technology is transforming biology. Understanding the underlying chemical mechanisms of RNA-guided DNA and RNA cleavage provides a foundation for both conceptual advances and technology development. I will discuss how bacterial CRISPR adaptive immune systems inspire creation of powerful genome engineering tools, enabling advances in both fundamental biology and applications in medicine. I will also discuss the ethical challenges of some of these applications.

Host: Patrick Cramer