

Guest Lecture

CRISPRs: Hallmarks of acquired immunity in bacteria.

Genome Engineering with CRISPR-CAS9

by Dr. Jennifer Doudna (UC Berkeley / HHMI)

1. How does Dr. Doudna describe the start of this “story”?
2. Where are the colored squares between the “black diamonds” derived from as illustrated on the bacterial chromosome?
3. What did scientist notice near the CRISPR locus? (a gene called cas
4. What is the meaning of the acronym CRISPR?
5. What is the second step in this mechanism?
6. What is the function of the crRNA-CAS complex?
7. What is the function of the CAS9 protein in nature?
8. What was the AH-HAA moment?
9. What is the “power” of this work?
10. What are the three broad areas where CRISPR-cas9 has applications?