

2nd International Summit on Human Genome
Editing
Hong Kong
November 27, 2018

Dana Carroll
Department of Biochemistry
University of Utah School of Medicine

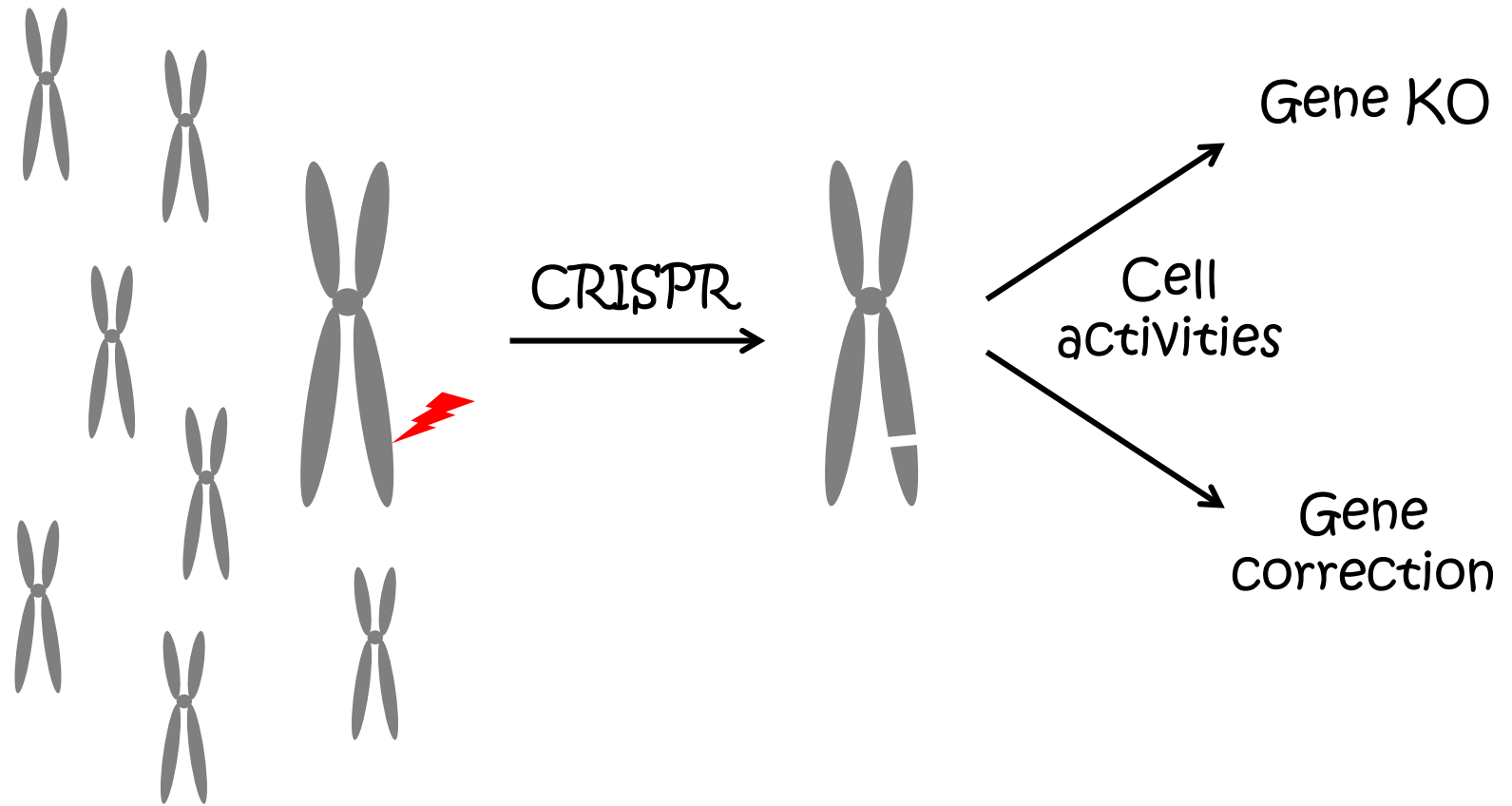
Asilomar, 1975



First Summit on Human Gene Editing, 2015



What CRISPR does – genome editing

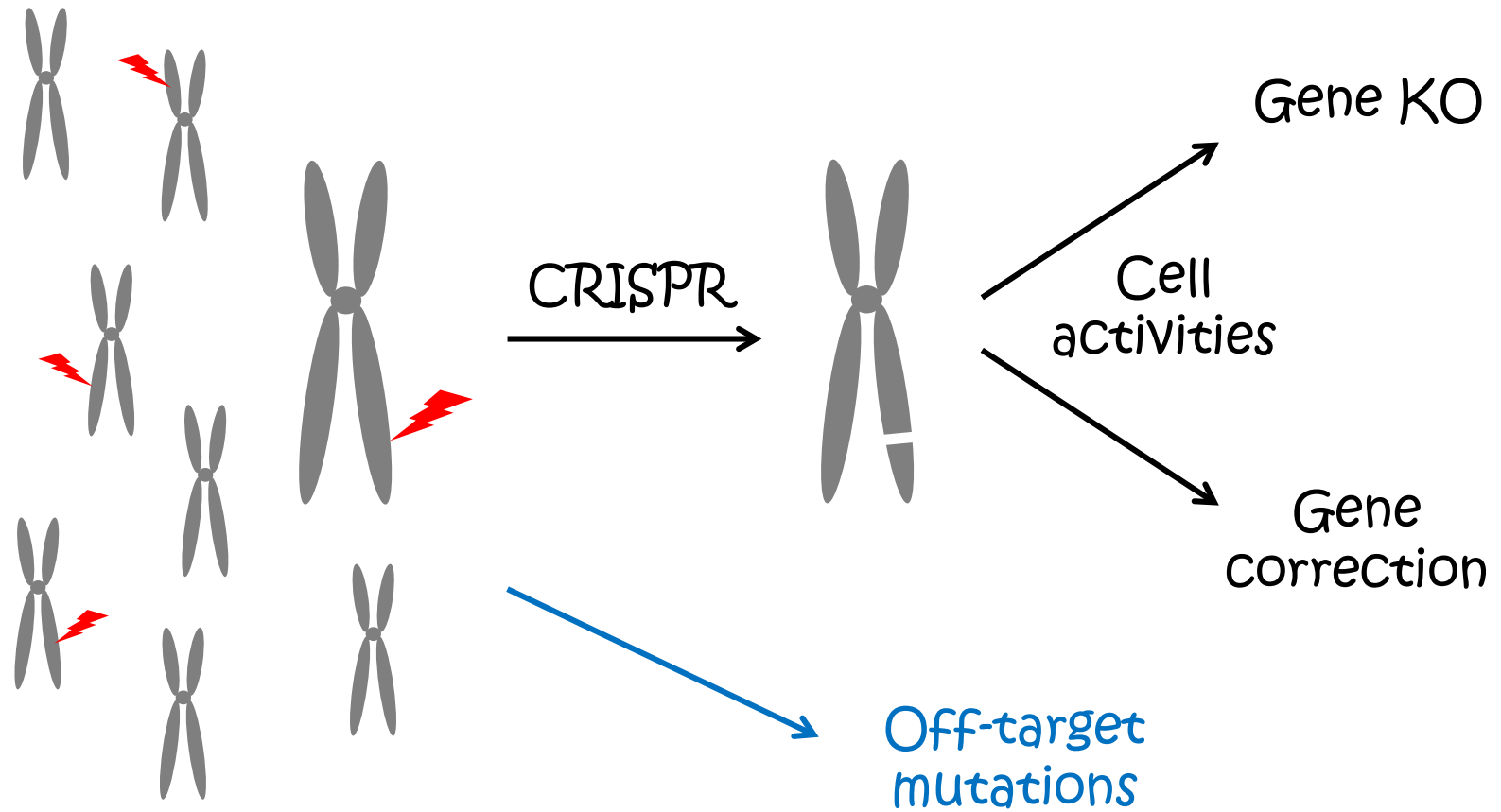


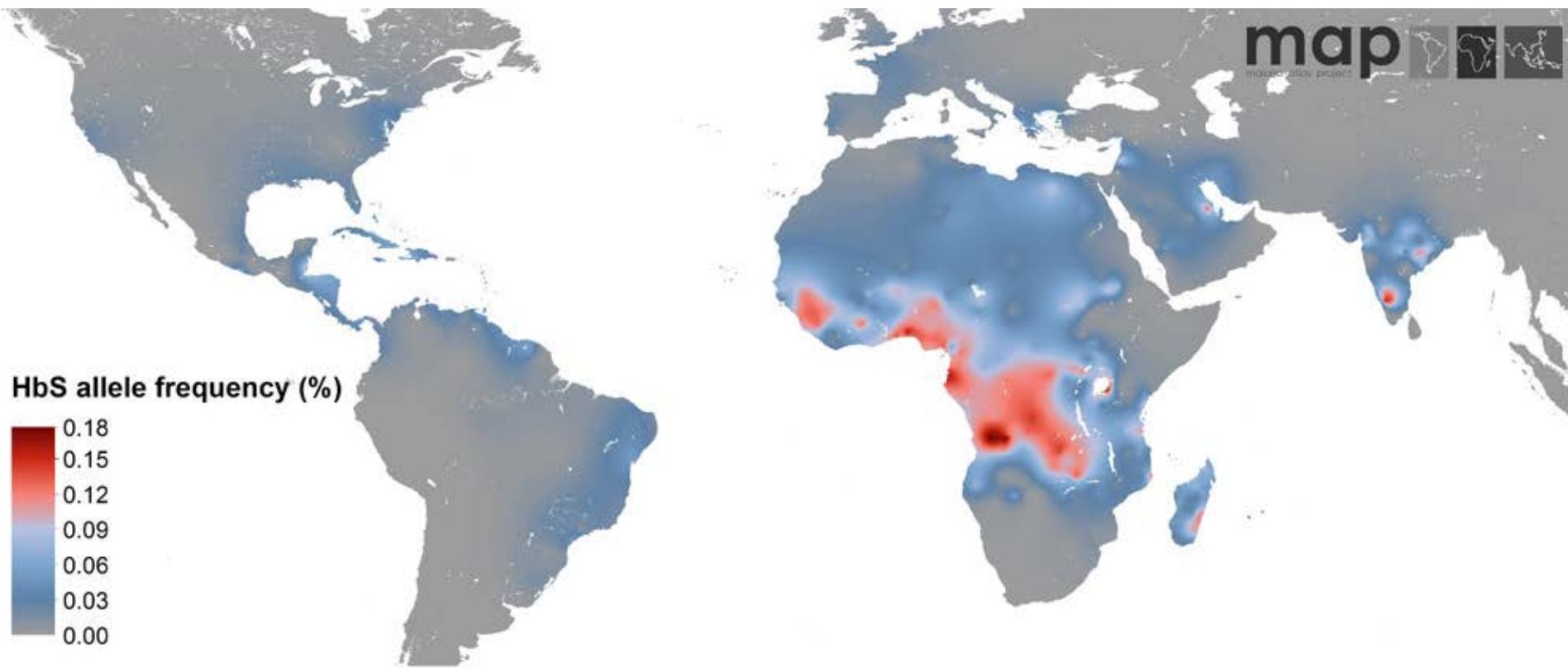
Human embryo injection



Dr. Kathy Niakan, Nature
Published in Science
09.20.2017

CRISPR's unintended consequences





Distribution of the sickle allele

SICKLE CELL DISEASE (number of people affected)

100,000 people in the U.S.
and **millions** of people worldwide

1 500
in African American births

1 36,000
in Hispanic births