

COLLOQUIUM

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NECKERS 156 | 3PM

RECEPTION IMMEDIATELY FOLLOWING IN THE MATH LIBRARY

Rational Design of Inhibitors to Safely Control CRISPR Gene-Editing Enzymes

[ABSTRACT]

CRISPR is a new enzyme-based technology that can be used to precisely "edit" the genomes of living organisms. This technology is not only being developed for basic science, but also as a potential gene therapy. Although CRISPR is an exciting technology that could one day cure diseases like cancer or Alzheimer's, it is not perfect and can potentially produce unwanted side-effects. To improve the control and safety of therapeutic or technology development, inhibitors that can act as a "kill switch" to turn off the enzyme are needed. This seminar will describe CRISPR technology and the rational design of successful inhibitors based on biochemical principles.

Website: <http://www.labgagnon.com/index.html>