

CRISPR: DESIGN, STRATEGY AND ANALYSIS

ON-DEMAND COURSE

Exclusive lectures from world-leading experts in cutting-edge CRISPR technology will provide you with a deeper understanding of the field. In addition, the course will guide you through design, strategy and analysis to provide you with a solid base to plan your experimental work to the highest standards.

Introduction to CRISPR Gene Editing

An introduction to CRISPR gene editing, covering the history of genome editing, what is CRISPR and how CRISPR can be used.

Experimental Design, Strategy and Analysis

The experts share all the resources you need to design and analyse your own experiments, from guideRNA design through to validation.

Tools for Advanced Genome Editing

Discover the ever-expanding CRISPR toolkit and the applications of CRISPR technology beyond simple gene editing.

Generation of Mouse Models Using CRISPR

A practical introduction to the generation of CRISPR mouse models including choosing the right tools to generate transgenic mice.

Base Editing

Find out how single nucleotide mutations can be repaired through base editing.

DeadCas9

Learn about the novel applications of DeadCas9 for advanced genome engineering.

CRISPR Screening

The instructors will guide you through the theory and methodology behind genome wide CRISPR screens.

Cell Therapies and Ethics

Explore the use of CRISPR as a therapy and how novel human cell models can be generated from iPSCs.

Further Reading and Tips and Tricks

Continue learning beyond the course with a library of research papers and reviews. Tips and tricks from the experts will help you get your CRISPR experiments up and running in no time.

Monitor your progress

Regular assessment questions combined with in-depth analytics allow you to check how you're progressing in each concept and how your confidence is evolving over time.

Question
Which DNA repair mechanism is (most often) exploited to create 'knock-ins'?

Sticky end joining

Homologous recombination

Enter your confidence level for this content

Set your confidence just for this answer

Non homologous end joining

Measure your confidence level in mini-assessments to track your progression through different concepts.