

ADD. DELETE. SWAP.



Targeted Genome Editing Using Zinc Finger Nucleases

A joint workshop brought to you by
Sigma and the EMBL

Date: 22-24 June 2010

Location: EMBL Advanced Training Centre, Heidelberg, Germany

Module I: Technology, Design and Delivery

- Introduction to ZFN Technology
- Genome Editing
- Delivery
 - Overview of Nucleofection
 - *Lab Practical: Nucleofection Module*

Module II: Targeted Genome Editing

- Double-strand Break Repair
 - *Lab Practical: CEL-I Assay*
 - Quantifying CEL-I Cleavage Activity
- Gene Insertion and Tagging
 - Donor Plasmid Design
 - *Lab Practical: Junction PCR*
 - *Lab Practical: RFLP Assay*

Module III: Validation and Characterization

- Dilution Cloning and Genotyping
- Troubleshooting

Module IV: Applications

- Therapeutic Applications
- Creation of Transgenic Animals