«CRISPR/Cas9 Screening for Novel Target Identification»

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Genome editing technologies allow engineering parts of the genome by removing, adding or altering sections of the DNA Sequence. Recent discovery of the CRISPR/Cas9 system as a technology for genome editing, enables the simplest, quickest and most versatile way of genome editing. CRISPR/Cas9 technology is quickly developing and has already found many applications as a drug discovery tool (e.g. identification of novel targets, generation of relevant genetic disease models for target validation and for mechanistic and safety studies) and even as a potential new therapeutic agent in cellular and gene therapy. This talk gives an overview of use of CRISPR/Cas9 for cellular engineering and in genetic screens.