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early commercial success in clinics has sparked interest in genome editing of human cells, which has been a long-standing scientific goal in human genetic engineering. hundreds of successful experiments have been reported using genome-editing techniques, which exploit the ability of nucleases to cleave dna to precisely alter targeted sequences, including those of human genes. current genome editing methodologies include zinc finger nucleases (zfn), transcription activator-like effector nucleases (tales), and the rna-guided cas9 nucleases (rgns). crispr/cas9 is an editing tool that has become extremely popular and is the only genome editing technique that can be easily adapted for human clinical applications⁷³⁻⁷⁶. however, this leads to development of a number of safety issues and concerns among scientists, medical practitioners, and regulatory bodies. there are some studies on the unintentional genome editing by crispr/cas9 systems in human cells and resulting clinical safety issues⁷⁷⁻⁸². the crispr/cas system itself is a powerful technology that has revolutionized the field of molecular biology. the development of crispr/cas9-based genome editing applications can potentially benefit human health and our understanding of human diseases⁸³⁻⁸⁶. furthermore, crispr/cas9-based genome-editing technologies could potentially be used to create genetically modified embryos or human cells for regenerative medicine. the future of molecular genetics depends on the development of novel genome-editing technologies. the field of nucleic acids is a multidisciplinary research discipline that encompasses areas of molecular biology, chemistry, physics, biochemistry, and computer science. this article is meant to be a general overview of the diverse technologies for gene editing, including the crispr-cas9 system, zfn, tales, rna-guided cas9 nucleases (rgns), and prime editors⁸⁷⁻⁸⁹. to facilitate the interaction between researchers from various disciplines, we adopted a hierarchical division of basic areas of science, covering the evolution of genetic information, dna synthesis, how dna is packaged inside the cell, dna engineering, and the organization of cellular and molecular biology. in addition to methodological innovations, the focus of this review is on the history of nucleic acids technology.

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crispr-cas9 technology provides a genome-editing tool that is easy to use and inexpensive for most experimental settings⁹⁰. the cas9 protein is composed of two functional domains: a nuclease domain that cleaves dna and a protospacer-adjacent motif (pam) recognizing domain that directs the cas9 to specific dna sequences. interestingly, the pam domain alone has the potential to be a target recognition domain for genome editing⁹¹. thus, cas9-directed genome editing can be performed using a simple pam sequence and a short rna guide rna (grna). all animations should complete. it is essential that all animations be completed. without it, no user interaction is possible. in between animations and after all animations have completed, the editor is responsive to a mouse click. the editor pauses on hover, meaning that the editor's contained container area is visible when the mouse cursor is moved onto it. when users can interact with the editor, this is generally done by holding the mouse button down. users can move their mouse cursor around the editor freely, performing interaction with the editor. when users release the mouse button, the editor continues running, meaning that the editor's contained container area is visible until the mouse cursor is moved onto it. important: there is currently a bug causing the editor to crash when an attempt is made to perform a reset inside or outside of an editor. the editor should freeze during this process, and can be recovered by closing all editors and opening again. 5ec8ef588b

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