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Yonglun Luo,2019 This detailed volume guides readers through strategic planning and user friendly guidelines in order to select the most suitable CRISPR Cas system and target sites with high activity and specificity Methods covering CRISPR gRNA design CRISPR delivery CRISPR activity quantification indel quantification and examples of applying CRISPR gene editing in human pluripotent stem cells primary cells gene therapy and genetic screening are included Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and invaluable CRISPR Gene Editing Methods and Protocols will assist undergraduates graduates and researchers with detailed guidelines and methods for the vitally important CRISPR gene editing field Chapter 3 is available open access under a CC BY 4 0 license via link [springer.com](https://www.springer.com) *Plant Genome Editing with CRISPR Systems*

Yiping Qi,2019-01-04 This volume provides readers with wide ranging coverage of CRISPR systems and their applications in various plant species The chapters in this book discuss topics such as plant DNA repair and genome editing analysis of CRISPR induced mutations multiplexed CRISPR Cas9 systems CRISPR Cas12a Cpf1 editing systems and non agrobacterium based CRISPR delivery systems Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Comprehensive and thorough Plant Genome Editing with CRISPR Systems Methods and Protocols is a valuable resource for any researcher interested in learning about and using CRISPR systems in plants **Genome Editing in Animals** Izuho Hatada,2023-02-11 This second edition provides new and updated protocols that can be used for generation of knockout animals Chapters guide the reader through basic protocols for three genome editing technologies target design tools and specific protocols for each animal Written in the successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the

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Verma,Huseyin Sumer,Jun Liu,2022-06-13 This volume details generation of gene edited cell lines and organisms as models for human diseases pest control and large animal welfare and production outcomes Chapters guide readers through gene regulation editing screening of cell lines genome editing and an overview of the tools for efficient genome editing including ZFNs TALENs and CRISPR Written in the format of the highly successful Methods in Molecular Biology series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge Applications of Genome Modulation and Editing aims to be a useful and practical guide for researchers to commence or advance their study in this field

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Transgenesis Thomas L. Saunders,2023-03-30 This detailed volume focuses on genotyping and validation in addition to information on how to produce gene edited cells and animals for research Future advances in biomedical research will benefit greatly from the use of precise gene targeting of transgenes in the genome as CRISPR technology supersedes earlier methods that relied on random transgene integration which this collection reflects Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols as well as tips for troubleshooting and avoiding known pitfalls Authoritative and practical Transgenesis Methods and Protocols serves as an ideal guide for researchers working with or working on genetically modified models

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