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Crispr Methods And Protocols Methods In Molecular Biology

**Magnus Lundgren,Emmanuelle
Charpentier,Peter C. Fineran**



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CRISPR Gene Editing

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)

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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

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System Vaccinology Vijay Kumar Prajapati, 2022-08-20 Emergence of new and deadly infectious diseases is significantly deteriorating the human health Development of vaccine by the scientist has become an important weapon to control the spread of infectious diseases as well as to improve the life expectancy at global level in 20th 21st Century This book will provide the in depth knowledge of vaccine history and development of new strategies to design efficacious and safe vaccine molecule This book will cover the development of system vaccinology and their applications revolutionize the vaccine discovery This will provide a resource for the basic and clinical researcher working to human life expectancy by their vaccine experiments and clinical trials My purpose to write this book to educate the students and researchers with modern development in the field of vaccinology and empowering the researcher with new tools and methodology for developing potential and immunogenic vaccines This book will be helpful to solve the curiosity of science and medical background students related with vaccinology and will be helpful to devise a new vaccine molecule to control the spread of new and emerging pathogens Systems biology is a rapidly expanding research discipline aiming to integrate multifaceted datasets generated using state of the art high throughput technologies such as arrays and next generation sequencing Combined with sophisticated computational analysis we are able to interrogate host responses to infections and vaccination on a systems level thus generating important new hypotheses and discovering unknown associations between

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Applications of Genome Modulation and Editing Paul John 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

Plant MicroRNAs Stefan de Folter,2025-05-16 This second volume is a collection of new and updated protocols to study miRNA functions in plants Chapters guide readers from the identification and detection of plant miRNAs bioinformatic analyses to strategies for functional analysis of miRNAs and their targets Furthermore it contains a few introductory chapters on plant miRNA functioning and on their conservation and evolution 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 Plant MicroRNAs Methods and Protocols Second Edition aims to provide protocols to help new researchers while also supporting established researchers to broaden the scope of their investigations

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new researchers and experts looking to expand their knowledge **Neuroprotection** Swapan K. Ray, 2024-03-01 This volume contains cutting edge molecular biology methods on neuroprotective mechanisms and specific preclinical models of the CNS injury diseases and planning translation Chapters guide readers through neuropathology neuroprotection Alzheimer's disease amyotrophic lateral sclerosis ALS Huntington's disease multiple sclerosis Parkinson's disease spinal cord injury traumatic brain injury and ischemic brain injury 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 Authoritative and cutting edge Neuroprotection Methods and Protocols aims to ensure successful results in the further study of this vital field *Tools & Techniques of Plant Molecular Farming* Chittaranjan Koley, Anurag Chaurasia, Kathleen L. Heffernan, Jogeswar Panigrahi, 2023-11-22 This edited book is an in depth compilation of recent tools and techniques concepts and strategies used globally in plant molecular farming PMF for the cost effective bulk production of recombinant proteins secondary metabolites and other biomolecules The book presents an overview of success stories of PMF applications from developing countries to address poverty achieve zero hunger good health and well being thus achieving the UN SDGs 1 2 and 3 The book deep dives into recent extraction and downstream processing methodologies its co existence with conventional agriculture global governance and finally opportunities challenges and future perspectives in plant molecular farming It focuses on plastid chloroplast transformation transplastomics and its application in plant molecular farming The book highlights recent advances in genome editing synthetic biology glycosylation and glyco engineering for improved plant molecular farming by marker free and tissue specific systems via cisgenic and transgenic crops In depth discussions on biosafety issues and bio containment strategies have also been included The book has 15 chapters authored by globally leading experts on the subject presenting opportunities challenges for bio industrial researchers and entrepreneurs It is useful to researchers industrialists entrepreneurs policy planners academicians and students across the disciplines Schizosaccharomyces pombe Ruben C. Petreaca, 2024-11-11 This detailed volume explores techniques utilizing the fission yeast *Schizosaccharomyces pombe* a powerful tractable model system for eukaryotic biology The book begins with a section on microscopy and imaging and it continues with chapters covering genome and plasmid editing including the use of CRISPR Cas9 technologies as well as the analysis of DNA damage repair and recombination and more The volume also includes chapters with a focus on computational methods specific to the approaches 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 and tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge *Schizosaccharomyces pombe* Methods and Protocols serves as the ideal guide for researchers in the fission yeast community working with emerging technologies

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