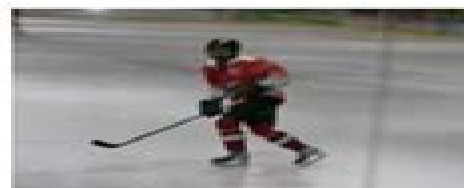




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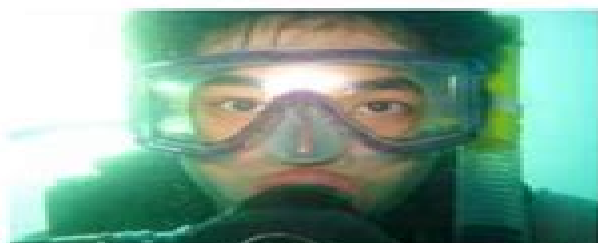
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CRISPRized Horticulture Crops Kamel A Abd-Elsalam, Aftab Ahmad, Baohong Zhang, 2024-03-19 *CRISPRized Horticultural Crops Genome Modified Plants and Microbes in Food and Agriculture* summarizes applications of CRISPR Cas systems and its advanced variants e.g. CRISPR Cpf1 base editing and prime editing for precise editing of horticultural crops. The book discusses vector transformations, methods, epigenome, deep learning, synthetic biology, and precision breeding for improving yield and quality related attributes in horticultural crops. With coverage of the relevant technologies and their applications, the book also includes bioinformatics and large scale databases and their potential application in fruits, vegetables, and ornamental plants and sections on regulatory concerns related to CRISPR edited crops. Horticultural crops, including fruit, vegetable, and ornamental plants, are an important component of agriculture production systems and play an important role in sustaining human life. Reviews CRISPR for editing horticultural crops. Discusses vector transformation methods, epigenome, deep learning, synthetic biology, and precision breeding. Includes bioinformatics and large scale databases. Contributes engineering approaches for crop improvement programs. *Navigating Non-coding RNA* Joanna Sztuba-Solinska, 2023-06-17 *Navigating Non coding RNA From Biogenesis to Therapeutic Application* provides a concise overview of the field of non coding RNA (ncRNA). Chapters cover the history of discoveries that have occurred in the area of ncRNA, specific types of ncRNA, housekeeping ncRNAs such as ribosomal RNA, transfer RNA, small nuclear RNA, and telomerase RNA, regulatory ncRNAs such as microRNA, small interfering RNA, long non coding RNA, and Y RNA. Biogenesis, structure, function, and regulation of each of these are also explored, in addition to traditional and cutting edge methods for the identification, functional characterization, and structural characterization of ncRNA. The book also focuses on the different types of epitranscriptomic modifications and their involvement in regulating ncRNA structure, stability, and intermolecular interactions, in addition to the role of ncRNAs in a range of diseases and potential therapeutic applications. Covers a wide range of non coding RNAs including ribosomal RNA, transfer RNA, telomerase RNA, microRNA, small interfering RNA, and circular RNA. Features both traditional and novel methodologies for investigating ncRNA, from microarray and conventional chemical probing to CAGE seq and computational methods. Includes chapters on ncRNAs in a range of diseases, including cancers, neurological disorders, cardiovascular conditions, and infectious illnesses. Discusses novel therapeutic strategies for targeting ncRNAs, including CRISPR/Cas9 applications and RNAi based strategies. Explores the molecular mechanisms and intermolecular interactions of ncRNA. **Rosenberg's Molecular and Genetic Basis of Neurological and Psychiatric Disease** Roger N. Rosenberg, Juan M. Pascual, 2020-06-24 *Rosenberg's Molecular and Genetic Basis of Neurologic and Psychiatric Disease* Sixth Edition Volume One provides a comprehensive introduction and reference to the foundations and key practical aspects relevant to neurologic and psychiatric disease. A favorite of over three generations of students, clinicians, and scholars, this new edition retains and expands the informative, concise, and critical tone of the first edition. This is an

essential reference for general medical practitioners neurologists psychiatrists geneticists and related professionals and for the neuroscience and neurology research community The content covers all aspects essential to the practice of neurogenetics to inform clinical diagnosis treatment and genetic counseling Every chapter has been thoroughly revised or newly commissioned to reflect the latest scientific and medical advances by an international team of leading scientists and clinicians The contents have been expanded to include disorders for which a genetic basis has been recently identified together with abundant original illustrations that convey and clarify the key points of the text in an attractive didactic format Comprehensive coverage of the neurogenetic foundation of neurological and psychiatric disease Provides a detailed introduction on both the clinical and basic research implications of molecular and genetics surrounding the brain Includes new chapters on molecular genomics CRISPR and the most recent updates in molecular genetics

The rights and wrongs of zebrafish: Behavioral phenotyping of zebrafish Allan V. Kalueff, 2017-02-06 Animal models and tests have become increasingly important for biomedical research enabling a better understanding of pathogenic pathways involved in various human disorders Over the last decades zebrafish *Danio rerio* have become a very popular model organism in biomedical research Recently this fish has entered the waters of neuroscience and biological psychiatry quickly becoming an indispensable model species in this field With a high genetic homology to humans 75% based on coding regions it is not surprising that humans and fish are very similar physiologically and behaviorally Therefore it should not come as a surprise that zebrafish can be an excellent model of human neuropsychiatric disorders While some classical psychiatrists may not too easily be persuaded by this generalization the current book *The rights and wrongs of zebrafish principles of behavioral phenotyping and CNS disease modeling* explains in a domain by domain manner how exactly zebrafish models can be used to target a wide range of human brain disorders and aberrant phenotypes The contributors to this book are leading international scholars whose work spearheads innovative zebrafish neuroscience research around the world Written by top experts in the field this book makes for a useful balanced and up to date reading that outlines the use of zebrafish to study the pathological mechanisms underlying neuropsychiatric disorders

Acute Topics in Anti-Doping O., Rabin, Y., Pitsiladis, 2017-06-02 Doping represents the dark side of amateur and professional sports in order to protect athletes around the globe anti doping rules are continuously revised and improved This publication reviews the current regulatory framework scientific aspects future approaches and social and ethical dimensions of the fight against doping in sport Prominent experts on the implementation of anti doping strategies as well as leading researchers in science and medicine have contributed to this publication In keeping with its interdisciplinary origin the book is intended for athletes coaches students scientists anti doping officials and all others interested in anti doping and sports Ranging from legal and educational to scientific and medical issues this collection emphasizes the need for a multidisciplinary approach and the importance of preventative strategies in the fight against doping in sports

Development and Application of Novel Genome Engineering Tools

in Microbial Biotechnology Jiazhang Lian, Yi Wang, Yunzi Luo, Chun Li, 2021-01-20 **BrewingScience Yearbook 2022** Fachverlag Hans Carl GmbH, 2023-02-13 This publication is a compilation of the articles published in the BrewingScience bimonthly online journal in 2022 The yearbook is full of new insights ranging from hop and practical yeast matters all the way to use of new methods such as Cas9 in the brewing industry Contributions extending beyond the horizons of the brewing industry round off the range of topics **Precision Medicine, CRISPR, and Genome Engineering** Stephen H. Tsang, 2017-11-11 This book presents descriptive overviews of gene editing strategies across multiple species while also offering in depth insight on complex cases of application in the field of tissue engineering and regenerative medicine Chapters feature contributions from leaders in stem cell therapy and biology providing a comprehensive view of the application of gene therapy in numerous fields with an emphasis on ophthalmology stem cells and agriculture The book also highlights recent major technological advances including ZFN TALEN and CRISPR Precision Medicine CRISPR and Genome Engineering is part of the highly successful Advances in Experimental Medicine and Biology series It is an indispensable resource for researchers and students in genetics as well as clinicians *Guide to Government Orders* Great Britain, 1920

Lawyers Aviation Handbook Stuart M. Speiser, 1964 **The Court guide and royal blue book of Scotland (Northumberland, Cumberland & Durham).** , 1906 *CRISPR* Rodolphe Barrangou, Erik J. Sontheimer, Luciano A. Marraffini, 2022-09-19 An excellent compendium of all things CRISPR from some of the leading minds in the field With thorough coverage from every angle and beautifully detailed illustrations this book is not to be missed Jennifer A Doudna Professor of Chemistry Biochemistry Founder Innovative Genomics Institute Nobel Laureate and coinventor of CRISPR technology This journey through CRISPR biology and several of its breakthrough applications offers an exciting glimpse into one of the most beautiful and compelling fields in the life sciences David R Liu Director of the Merkin Institute at the Broad Institute of MIT and Harvard Professor of Chemistry and Chemical Biology at Harvard University coinventor of base editing and prime editing A must read The CRISPR topics written by world leading experts span from the fascinating mechanistic underpinnings to the ingenious applications One can read from start to finish or pick and choose themes Either way the book delivers utterly enjoyable learning Bonnie Bassler Squibb Professor and Chair Princeton University Department of Molecular Biology Howard Hughes Medical Institute Investigator CRISPR Cas systems have revolutionized the science of gene editing and their possible applications continue to expand from basic research to potentially groundbreaking medical and commercial uses Led by a distinguished team of editors CRISPR Biology and Applications explores the subject matter needed to delve into this fascinating area Topics covered include Classification and molecular mechanisms of CRISPR Cas systems CRISPR Cas evolution regulation expression and function Uses for gene editing and modulation of gene expression CRISPR based antimicrobials and phage resistance for medical and industrial purposes Written by internationally renowned authors CRISPR Biology and Applications serves as both an introductory guide for those new to the field and an authoritative

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