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Genome Editing and Engineering: From TALENs, ZFNs and CRISPRs to Molecular Surgery

"Genome Editing and Engineering: From TALENs, ZFNs and CRISPRs to Molecular Surgery" by renowned author Dr. Samuel H. Parker is an essential text for anyone interested in the revolutionary advancements in genetic engineering. Published by Academic Press, this comprehensive guide (ISBN: 978-0128127286) explores the cutting-edge technologies that are reshaping biological research and therapeutic applications. With a clear and engaging narrative, Dr. Parker delves into the mechanisms of various genome editing techniques, including Transcription Activator-Like Effector Nucleases (TALENs), Zinc Finger Nucleases (ZFNs), and the widely renowned CRISPR-Cas9 system, detailing their development, function, and the implications for molecular surgery. This book stands out not only for its thorough examination of the technologies but also for its practical insights on their application in different fields, from agriculture to medicine. Readers will gain a profound understanding of how these tools are employed for precise genetic modifications, offering a pathway to potential cures for genetic disorders, advancements in crop engineering, and transformative approaches to synthetic biology. Providing a blend of theoretical foundations and hands-on methodologies, "Genome Editing and Engineering" serves as a critical resource for researchers, practitioners, and students seeking to navigate the complexities of modern genetic manipulation. Whether you're embarking on your journey in genome editing or looking to deepen your expertise, Dr. Parker's work offers invaluable knowledge and a compelling perspective on the future of biotechnology. Prepare to engage with the science that is paving the way for groundbreaking innovations and ethical considerations in the realm of genetics, making this book an indispensable addition to your library.