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## **KEY=CLONING - MCCONNELL MCMAHON**

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## **MANUFACTURING OF GENE THERAPEUTICS**

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## **METHODS, PROCESSING, REGULATION, AND VALIDATION**

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**Springer Science & Business Media** *Advances in molecular biology and recombinant DNA technology have accelerated progress in many fields of life science research, including gene therapy. A large number of genetic engineering approaches and methods are readily available for gene cloning and therapeutic vector construction. Significant progress is being made in genomic, DNA sequencing, gene expression, gene delivery and cloning. Thus gene therapy has already shown that it holds great promise for the treatment of many diseases and disorders. In general it involves the delivery of recombinant genes or transgenes into somatic cells to replace proteins with a genetic defect or to transfer with the pathological process of an illness. The viral and non-viral delivery systems may hold the potential for future non-invasive, cost-effective oral therapy of genetically-based disorders. Recent years have seen considerable progress in the discovery and early clinical development of a variety of gene therapeutic products. The availability, validation, and implementation of gene therapeutic products has also enabled success in testing and evaluation. New challenges will need to be overcome to ensure that products will also be successful in later clinical development and ultimately for marketing authorisation. These new challenges will include improvements in delivery systems, better control of in-vivo targeting, increased level*

transduction and duration of expression of the gene, and manufacturing process efficiencies that enable reduction in production costs. Perhaps profound understanding of regulated gene design may result in innovative bioproducts exhibiting safety and efficacy profiles that are significantly superior to those achieved by the use of naturally occurring genes. This procedure may contribute considerably to fulfilling standards set by regulatory authorities. This book provides an overview of the current advances in the field of gene therapy and the methods that are being successfully applied in the manufacture of gene therapeutic products, and hopefully will stimulate further progress and advancement in this field to meet the ever-increasing demands.

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## **PHYTOREMEDIATION**

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### **METHODS AND REVIEWS**

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**Springer Science & Business Media** *Phytoremediation: Methods and Reviews* presents the most innovative recent methodological developments in phytoremediation research, and outlines a variety of the contexts in which phytoremediation has begun to be applied. A significant portion of this volume is devoted to groundbreaking methods for the production of plants that are able to degrade, take up, or tolerate the effects of pollutants. *Phytoremediation: Methods and Reviews* adopts a multidisciplinary approach to the examination of principles and practices of phytoremediation, from molecular manipulation to field application. Parts I and II discuss detailed protocols for achieving several different goals of phytoremediation, including enhancing contaminant degradation, uptake, and tolerance by plants; exploiting plant diversity for phytoremediation; modifying contaminant availability; and experimentally analyzing phytoremediation potential. Parts III and IV examine a variety of progressive techniques for phytoremediation and explore their implementation and success on a global scale. This cutting-edge volume highlights the myriad of contexts in which phytoremediation can be applied, and energizes new research by describing ways in which barriers to success have been recently overcome.

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## **THE LITIGATOR'S GUIDE TO ELECTRONIC EVIDENCE AND TECHNOLOGY**

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**Bradford Publishing Company**

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### **TOOLS AND TECHNIQUES IN BIOMOLECULAR SCIENCE**

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**Oxford University Press** *This book reviews the theoretical concepts and experimental details underpinning the broad range of modern technologies that are currently being used to advance our understanding of the biomolecular sciences.*

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## DNA CLONING: A HANDS-ON APPROACH

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**Springer** *This book offers step-by-step instruction on DNA cloning, defined as moving genes around plasmids, mutating genes, or mining new genes. The aim is to provide those new to the field with reliable and up-to-date practical guidance while at the same time conveying the scope for creativity. After a brief synopsis of the history of cloning, the fundamentals and prerequisites are explained, covering, for example, software, vectors commonly used in the lab, appropriate choice of restriction endonucleases, the preparation of agarose gels, competent cells, and LB agar plates, and procedures to be followed upon receipt of new plasmids. The remainder of the book is devoted to the clear description of methods and individual steps in cloning. Guidance is provided on the cut and paste method, DNA sequencing, direct sequencing, primer design, PCR-based gene insertion and deletion, epitope tag insertion, the use of RACE technology, BAC recombineering, and much, much more. Sources of error and a variety of techniques that make life considerably easier when cloning are also examined in detail.*

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## MOLECULAR CLONING

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### A LABORATORY MANUAL

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#### RNAI

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**Taylor & Francis** *One of the major recent discoveries in molecular and cellular biology is that small double-stranded RNA molecules selectively turn off gene expression in all types of cell, a phenomenon known as RNA silencing. This discovery led to the development of RNA interference (known as RNAi) as a powerful research tool in the functional study of individual genes and their products, and in functional genomics. In RNAi, specific small double-stranded RNA molecules (small interfering RNAs or siRNAs) are introduced into cells to selectively silence certain genes. RNAi covers the basic concepts and mechanisms of RNAi, transfection of cells with siRNAs, the design and validation of RNAi reagents, RNAi techniques in different organisms, large-scale RNAi screening, applications of RNAi in drug discovery, and potential uses of RNAi as a therapeutic agent. A key feature of RNAi is the highlighting of the pitfalls that can occur and how to minimize them. The book also contains a complete list of abbreviations.*

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## GENETIC ENGINEERING NEWS

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**GEN.**

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**AN EXPLORATION INTO THE MECHANISM OF CONTROL OF THE MAIZE KNOTTED1 (KN1) GENE**

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**A GUIDE TO UNDERSTANDING TECHNOLOGY TERMS**

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**CRISPR-CAS SYSTEMS**

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**RNA-MEDIATED ADAPTIVE IMMUNITY IN BACTERIA AND ARCHAEA**

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**Springer Science & Business Media** *CRISPR/Cas is a recently described defense system that protects bacteria and archaea against invasion by mobile genetic elements such as viruses and plasmids. A wide spectrum of distinct CRISPR/Cas systems has been identified in at least half of the available prokaryotic genomes. On-going structural and functional analyses have resulted in a far greater insight into the functions and possible applications of these systems, although many secrets remain to be discovered. In this book, experts summarize the state of the art in this exciting field.*

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**COMPTIA SECURITY+ CERTIFICATION STUDY GUIDE**

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**EXAM SY0-201 3E**

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**Syngress** *CompTIA Security+ Certification Study Guide: Exam SY0-201, Third Edition, offers a practical guide for those interested in pursuing CompTIA Security+ certification. The book is organized into six parts. Part 1 deals with general security issues including security threats; hardware and peripheral security risks; the fundamentals of operating system (OS) hardening; implementing system security applications; and concepts of virtualization. Part 2 discusses the fundamentals of network security. Part 3 focuses on network access and network authentication. Part 4 explains the importance of risk assessments and risk mitigation, and how to conduct them. Part 5 reviews general cryptographic concepts and addresses the complex issues involved in planning a certificate-based public key infrastructure (PKI). Part 6 on organizational security discusses redundancy planning; environmental controls; implementing disaster recovery and incident response procedures; and the policies, procedures, and documentation upon which organizational computer security is based. Each chapter begins with Exam Objectives and concludes with Self-Test questions along with their corresponding answers. \*Complete exam-prep package includes full coverage of new Security+ objectives, flash cards, cram sheets, MP3s for exam-day study, PPT presentations, two complete practice exams, and certification e-book library \*Authored by a leading Microsoft security*

expert \*A good reference for both beginning security professionals and seasoned IT professionals

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## **MODULATING GENE EXPRESSION - ABRIDGING THE RNAI AND CRISPR-CAS9 TECHNOLOGIES**

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*RNA interference (RNAi) is a widely used technology for gene silencing and has become a key tool in a myriad of research and lead discoveries. In recent years, the mechanism of RNAi agents has been well investigated, and the technique has been optimized for better effectiveness and safety. On the other hand, the clustered regularly interspaced short palindromic repeats (CRISPR)-associated Cas9/gRNA system is a recent, novel, targeted genome-editing technique derived from the bacterial immune system. Recent advances in gene-editing research and technologies have enabled the CRISPR Cas9 system to become a popular tool for sequence-specific gene editing to correct and modify eukaryotic systems. In this book, we will focus on the mechanisms, applications, regulations (their pros and cons), and various ways in which RNAi-based methods and CRISPR-Cas9 technology have stimulated the modulation of gene expression, thereby making them a promising therapeutic tool to treat and prevent complex diseases and disorders.*

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## **POLYMERASE CHAIN REACTION**

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**BoD - Books on Demand** *This book is intended to present current concepts in molecular biology with the emphasis on the application to animal, plant and human pathology, in various aspects such as etiology, diagnosis, prognosis, treatment and prevention of diseases as well as the use of these methodologies in understanding the pathophysiology of various diseases that affect living beings.*

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## **COMPTIA A+ CORE 2 EXAM: GUIDE TO OPERATING SYSTEMS AND SECURITY**

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**Cengage Learning** *Introduce IT technical support as best-selling authors and educators Andrews, West and Dark explain how to work with users as well as install, maintain, secure and troubleshoot software in COMPTIA A+ CORE 2 EXAM: GUIDE TO OPERATING SYSTEMS AND SECURITY, 10E. This step-by-step, highly visual approach uses CompTIA A+ Exam objectives as a framework to prepare students for the 220-1002 certification exam. Extensive updates reflect the most current technology, techniques and industry standards in IT support. Each chapter covers core and advanced topics with an emphasis on practical application and learning by doing. Additional coverage explores the latest developments in security, Active Directory, operational procedures, the basics of scripting, mobile operating systems, virtualization, remote support and Windows 10. In addition, Lab Manuals, CourseNotes, online labs and optional MindTap online resources provide certification test prep and interactive activities to prepare future IT support*

technicians. *Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

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## **COMPTIA A+ GUIDE TO INFORMATION TECHNOLOGY TECHNICAL SUPPORT**

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**Cengage Learning** *Using a step-by-step, highly visual approach, Andrews/Dark Shelton/Pierce's bestselling COMPTIA A+ GUIDE TO IT TECHNICAL SUPPORT, 11th edition, teaches you how to work with users as well as install, maintain, troubleshoot and network computer hardware and software. Ensuring you are well prepared for 220-1101 and 220-1102 certification exams, each module covers core and advanced topics while emphasizing practical application of the most current technology, techniques and industry standards. You will study the latest hardware, security, Active Directory, operational procedures, basics of scripting, virtualization, cloud computing, mobile devices, Windows 10, macOS and Linux. The text provides thorough preparation for the certification exam -- and your future success as an IT support technician or administrator. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

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## **UNDERSTANDING DNA AND GENE CLONING**

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### **A GUIDE FOR THE CURIOUS**

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**John Wiley & Sons Incorporated** *With DNA and gene cloning all over the news, readers need to understand the ongoing genetic revolution. In this highly acclaimed guide, Karl Drlica fully explains the basic science and technology readers need to understand the issues and make crucial decisions. Each step of the way he explains complex topics using easy-to-understand analogies.*

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## **GENE CLONING AND MANIPULATION**

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**Cambridge University Press** *Updated to reflect advances in the field, this introduction provides a broad, but concise, coverage of recombinant DNA techniques. Written for advanced undergraduates, graduates and scientists who want to use this technology, emphasis is placed on the concepts underlying particular types of cloning vectors to aid understanding and to enable readers to devise suitable strategies for novel experimental situations. An introduction to the basic biochemical principles is presented first. Then PCR and cloning using E. coli hosts and plasmid, phage and hybrid vectors are described, followed by the generation and screening of libraries and how to modify, inactivate or express cloned sequences. Finally genetic manipulation in a range of other organisms is discussed, including other bacteria, fungi, algae and plants, insects and mammals. A series of 'real-life' biological problems are also*

*presented to enable readers to assess their understanding of the material and to prepare for exams.*

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### **ARABIDOPSIS PROTOCOLS, 2ND EDITION**

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**Springer Science & Business Media** *For several decades, Arabidopsis thaliana has been the organism of choice in the laboratories of many plant geneticists, physiologists, developmental biologists, and biochemists around the world. During this time, a huge amount of knowledge has been acquired on the biology of this plant species, which has resulted in the development of molecular tools that account for much more efficient research. The significance that Arabidopsis would attain in biological research may have been difficult to foresee in the 1980s, when its use in the laboratory started. In the meantime, it has become the model plant organism, much the same way as Drosophila, Caenorhabditis, or mouse have for animal systems. Today, it is difficult to envision research at the cutting edge of plant biology without the use of Arabidopsis. Since the first edition of Arabidopsis Protocols appeared, new developments have fostered an impressive advance in plant biology that prompted us to prepare Arabidopsis Protocols, Second Edition. Completion of the Arabidopsis genome sequence offered for the first time the opportunity to have in hand all of the genetic information required for studying plant function. In addition, the development of whole systems approaches that allow global analysis of gene expression and protein and metabolite dynamics has encouraged scientists to explore new scenarios that are extending the limits of our knowledge.*

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### **STRATEGIES AND TECHNOLOGIES FOR DEVELOPING ONLINE COMPUTER LABS FOR TECHNOLOGY-BASED COURSES**

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**IGI Global** *For technology-based online courses, computer labs are necessary to support hands-on practice for IT products. The implementation of an online computer teaching lab is a challenging task. Strategies & Technologies for Developing Online Computer Labs for Technology-Based Courses discusses design strategies, implementation difficulties, and the effectiveness of online labs. This book provides scholars, researchers, and practitioners support for lab-based e-learning, gives guidance on the selection of technologies for various projects, and illustrates Web-based teaching with case studies.*

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### **THE BEST DAMN FIREWALL BOOK PERIOD**

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**Elsevier** *The Second Edition of the Best Damn Firewall Book Period is completely revised and updated to include all of the most recent releases from Microsoft, Cisco, Juniper Network, and Check Point. Compiled from the best of the Syngress firewall library and authored by product experts such as Dr. Tom Shinder on ISA Server, this volume is an indispensable addition to a serious networking professionals toolkit. Coverage includes migrating to ISA Server 2006, integrating Windows Firewall and Vista security into your*

enterprise, successfully integrating Voice over IP applications around firewalls, and analyzing security log files. Sections are organized by major vendor, and include hardware, software and VPN configurations for each product line. New to this Edition: Microsoft firewall protection, from Windows Firewall to ISA Server 2006 Cisco PIX Version 7, including VPN configuration and IDS Analyzing Firewall Logs and Reports VoIP and Firewall Bypassing

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## **LARGE-SCALE SIMULATION**

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### **MODELS, ALGORITHMS, AND APPLICATIONS**

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**CRC Press** *Large-Scale Simulation: Models, Algorithms, and Applications* gives you firsthand insight on the latest advances in large-scale simulation techniques. Most of the research results are drawn from the authors' papers in top-tier, peer-reviewed, scientific conference proceedings and journals. The first part of the book presents the fundamentals of large-scale simulation, including high-level architecture and runtime infrastructure. The second part covers middleware and software architecture for large-scale simulations, such as decoupled federate architecture, fault tolerant mechanisms, grid-enabled simulation, and federation communities. In the third part, the authors explore mechanisms—such as simulation cloning methods and algorithms—that support quick evaluation of alternative scenarios. The final part describes how distributed computing technologies and many-core architecture are used to study social phenomena. Reflecting the latest research in the field, this book guides you in using and further researching advanced models and algorithms for large-scale distributed simulation. These simulation tools will help you gain insight into large-scale systems across many disciplines.

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## **HIGH THROUGHPUT PROTEIN EXPRESSION AND PURIFICATION**

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### **METHODS AND PROTOCOLS**

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**Humana Press** Despite exciting advances in genome sequencing, isolating a protein from its expression system in its native form still presents a complex challenge. In *High Throughput Protein Expression and Purification: Methods and Protocols*, leading scientists detail the most successful protocols currently in use, including various high throughput cloning schemes, protein expression analysis, and production protocols. This volume describes the use of *E. coli*, insect, and mammalian cells, as well as cell-free systems for the production of a wide variety of proteins, including glycoproteins and membrane proteins, in order to best represent strategies that create and exploit common features to enable simplified cloning, stable expression, and purification of proteins. Written in the highly successful *Methods in Molecular Biology*<sup>TM</sup> series format, the chapters present brief introductions to the subject, lists of the necessary

materials and reagents, step-by-step, readily reproducible laboratory protocols, and a Notes section for tips on troubleshooting and avoiding known pitfalls. Cutting-edge and comprehensive, *High Throughput Protein Expression and Purification: Methods and Protocols* is an ideal reference for protein biochemists and all those who wish to apply these easy-to-use protocols to the many applicable fields.

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## **CULTURE OF ANIMAL CELLS**

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### **A MANUAL OF BASIC TECHNIQUE**

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*Cultured!cell - Biohazards - Sterilization - Cell!lines - Cloning - Specific!cell!types - Cell!separation - Transformed!phenotype - Cytotoxicity - Culture!of!specific!cell!types - Culture!of!tumor!tissue - Three!dimensional!culture!systems.*

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### **THE SECRET GUIDE TO COMPUTERS, 2001**

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### **THE WORLD'S TOP-RATED COMPUTER TUTORIAL**

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### **RESOURCES IN EDUCATION**

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### **RED CONDOR MESSAGE ASSURANCE GATEWAY 2700: ANTI-SPAM EFFECTIVENESS AND FEATURE COMPARISON VERSUS SOLUTIONS FROM BARRACUDA, CISCO AND GOOGLE**

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Tolly Enterprises LLC

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### **CHECK POINT NGX R65 SECURITY ADMINISTRATION**

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**Elsevier** *Check Point NGX R65 is the next major release of Check Point's flagship firewall software product, which has over 750,000 registered users. Check Point's NGX is the underlying security software platform for all of the company's enterprise firewall, VPN and management solutions. It enables enterprises of all sizes to reduce the cost and complexity of security management and ensure that their security systems can be easily extended to adapt to new and emerging threats. This title is a continuation of Syngress' best-selling references on Check Point's market leading Firewall and VPN products. \* First book to market covering Check Point's new, flagship NGX R65 Firewall/VPN. \* Provides bonus coverage for Check Point's upcoming NGX R65 Certification exams. \* Companion Web site offers customized scripts for managing log files.*

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## MODEL ORGANISMS: A PRECIOUS RESOURCE FOR UNDERSTANDING OF THE MOLECULAR MECHANISMS UNDERLYING HUMAN PHYSIOLOGY AND DISEASE

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Frontiers Media SA

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### THE HOUSE OF THE SCORPION

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**Simon and Schuster** *Matt is six years old when he discovers that he is different from other children and other people. To most, Matt isn't considered a boy at all, but a beast, dirty and disgusting. But to El Patron, lord of a country called Opium, Matt is the guarantee of eternal life. El Patron loves Matt as he loves himself - for Matt is himself. They share the exact same DNA. As Matt struggles to understand his existence and what that existence truly means, he is threatened by a host of sinister and manipulating characters, from El Patron's power-hungry family to the brain-deadened eejits and mindless slaves that toil Opium's poppy fields. Surrounded by a dangerous army of bodyguards, escape is the only chance Matt has to survive. But even escape is no guarantee of freedom... because Matt is marked by his difference in ways that he doesn't even suspect.*

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### VIRAL EXPRESSION VECTORS

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**Springer Science & Business Media** *In the past ten years there has been enormous progress in the development of eukaryotic viral vectors. In general, these vectors have been developed for one of three reasons: to achieve high levels of expression of a particular gene product (poxvirus, baculovirus, and adenovirus), to clone eukaryotic genes in combination with functional assays (Epstein-Barr virus), or for use as delivery vehicles for the stable introduction of foreign genes into mammalian cells (retroviruses, Epstein-Barr virus, and adeno-associated virus). Each vector has its strengths and weaknesses that are rooted in the sometimes bewildering strategies that the parent viruses use for propagation. No one of these vectors is appropriate for all of the problems that a molecular biology laboratory is likely to encounter, and few of us are knowledgeable in the molecular virology of all of these viruses. This volume represents an attempt by the authors to assemble a review of these vectors in one place and in a form useful to laboratories that do not necessarily have experience with eukaryotic viruses. Clearly, any virus can be modified to serve as a vector for some purposes, and it was not possible to include a description of all of these. In addition, one eukaryotic vector, SV40 (the first one developed), has been reviewed so widely that we saw no reason to include it here.*

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## THE CAR HACKER'S HANDBOOK

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### A GUIDE FOR THE PENETRATION TESTER

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**No Starch Press** *Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to:*

- Build an accurate threat model for your vehicle*
- Reverse engineer the CAN bus to fake engine signals*
- Exploit vulnerabilities in diagnostic and data-logging systems*
- Hack the ECU and other firmware and embedded systems*
- Feed exploits through infotainment and vehicle-to-vehicle communication systems*
- Override factory settings with performance-tuning techniques*
- Build physical and virtual test benches to try out exploits safely*

*If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.*

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### CISSP ALL-IN-ONE EXAM GUIDE, FIFTH EDITION

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**McGraw Hill Professional** *Get complete coverage of the latest release of the Certified Information Systems Security Professional (CISSP) exam inside this comprehensive, fully updated resource. Written by the leading expert in IT security certification and training, this authoritative guide covers all 10 CISSP exam domains developed by the International Information Systems Security Certification Consortium (ISC2). You'll find learning objectives at the beginning of each chapter, exam tips, practice exam questions, and in-depth explanations. Designed to help you pass the CISSP exam with ease, this definitive volume also serves as an essential on-the-job reference. COVERS ALL 10 CISSP DOMAINS: Information security and risk management Access control Security architecture and design Physical and environmental security Telecommunications and network security Cryptography Business continuity and disaster recovery planning Legal regulations, compliance, and investigations Application security Operations security THE CD-ROM FEATURES: Hundreds of practice exam questions Video training excerpt from the author E-book Shon Harris, CISSP, is a security consultant, a former member of the Information Warfare unit in the Air Force, and a contributing writer to Information Security Magazine and*

*Windows 2000 Magazine. She is the author of the previous editions of this book.*

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## **PC MAG**

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*PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.*

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## **E. COLI PLASMID VECTORS**

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### **METHODS AND APPLICATIONS**

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**Springer Science & Business Media** *The authors present a comprehensive collection of readily reproducible techniques for the manipulation of recombinant plasmids using the bacterial host E. coli. The authors describe proven methods for cloning DNA into plasmid vectors, transforming plasmids into E. coli, and analyzing recombinant clones. They also include protocols for the construction and screening of libraries, as well as specific techniques for specialized cloning vehicles, such as cosmids, bacterial artificial chromosomes, 1 vectors, and phagemids. Common downstream applications such as mutagenesis of plasmids and the use of reporter genes, are also described.*

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## **BEDFORD'S TECH EDGE**

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### **A FIELD GUIDE TO WIRELESS LANS**

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### **FOR ADMINISTRATORS AND POWER USERS**

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**Prentice Hall Professional** *Finally--an 802.11 deployment guide for business and home use that demystifies the alphabet soup of IEEE standards and explains the features and benefits of each with regards to speeds and feeds.*

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## **CISSP CERTIFICATION ALL-IN-ONE EXAM GUIDE, FOURTH EDITION**

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**McGraw Hill Professional** *All-in-One is All You Need Fully revised for the latest exam release, this authoritative volume offers thorough coverage of all the material on the Certified Information Systems Security Professional (CISSP) exam. Written by a renowned security expert and CISSP, this guide features complete details on all 10 exam domains developed by the International Information Systems Security Certification Consortium (ISC2). Inside, you'll find learning objectives at the beginning of each chapter, exam tips,*

practice questions, and in-depth explanations. *CISSP All-in-One Exam Guide, Fourth Edition* will not only help you pass the test, but also be your essential on-the-job reference. Covers all 10 subject areas on the exam: Access control Application security Business continuity and disaster recovery planning Cryptography Information security and risk management Legal, regulations, compliance, and investigations Operations security Physical (environmental) security Security architecture and design Telecommunications and network security The CD-ROM features: Simulated exam with practice questions and answers Video training from the author Complete electronic book

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## **PHOTOGRAPH RESTORATION AND ENHANCEMENT**

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### **USING ADOBE PHOTOSHOP CC 2017 VERSION**

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**Mercury Learning and Information** While focusing on Photoshop CC 2017, this book offers users of all versions of Photoshop comprehensive projects that will guide them through the process of creating professional restorations and enhancements. Whether you are new to Photoshop or an experienced user, this book and its companion videos and projects will teach you to repair all types of photograph damage, multiple ways to improve discolored photographs, a variety of ways to digitize photographs too large to scan, create the highest quality images at manageable file sizes, colorize black and white photos, and how to add and remove content from your photographs. This building-block style book is packed with inventive, easy to apply photograph restoration and tonal correction techniques for returning cherished memories back to their original grandeur, and enhancement tips for converting digital and print photographs into treasured favorites. Key Features: • Seven demonstration videos on how to perform key restoration and enhancement techniques: Using the Quick Mask mode, the Layer via Copy command, the Polygonal Lasso tool, the Clone and Patch tools, the Liquify filter, plus multiple ways to repair Red-Eye, and how to redo areas of your restoration • Hands on projects provided with each chapter, specifically tailored to reinforce the tools and techniques introduced in the chapter • Includes colorizing of black and white photographs • Packed with Photoshop quick tips for efficiency and accuracy The Companion Files (Included with this text and also available by contacting the publisher by writing to: [info@merclearning.com](mailto:info@merclearning.com)) • Photographs to complete all projects covered in the text • Extra Try It Yourself Projects for each chapter • Copies of all figures used in the text • 7 Demonstration videos

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## **REPRODUCTIVE TECHNOLOGIES IN FARM ANIMALS, 2ND EDITION**

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**CABI** Building on the successful structure of the first edition, the second edition of *Reproductive Technologies in Farm Animals* has been totally updated and revised to provide an up to date account of the key techniques employed in manipulating reproduction in farm animals, including beef and dairy cattle, pigs, sheep, goats, buffaloes, camelids, horses and poultry. A classic introductory text to

*the subject, the book is based on a comprehensive review of the current literature. This text remains key reading for students in animal science, agriculture, veterinary medicine and biology, and veterinary practitioners and farmers who wish to keep updated on developments in techniques that may be useful in their daily practice.*