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FUNDAMENTAL BACTERIAL GENETICS - NANCY TRUN 2009-04-01

FUNDAMENTAL BACTERIAL GENETICS PRESENTS A CONCISE INTRODUCTION TO MICROBIAL GENETICS. THE TEXT FOCUSES ON ONE BACTERIAL SPECIES, *ESCHERICHIA COLI*, BUT DRAWS EXAMPLES FROM OTHER MICROBIAL SYSTEMS AT APPROPRIATE POINTS TO SUPPORT THE FUNDAMENTAL CONCEPTS OF MOLECULAR GENETICS. A SOLID BALANCE OF CONCEPTS, TECHNIQUES AND APPLICATIONS MAKES THIS BOOK AN ACCESSIBLE, ESSENTIAL INTRODUCTION TO THE THEORY AND PRACTICE OF FUNDAMENTAL MICROBIAL GENETICS. FYI BOXES - FEATURE KEY EXPERIMENTS THAT LEAD TO WHAT WE NOW KNOW, BIOGRAPHIES OF KEY SCIENTISTS, COMPARISONS WITH OTHER SPECIES AND MORE. STUDY QUESTIONS - AT THE END OF EACH CHAPTER, REVIEW AND TEST STUDENTS' KNOWLEDGE OF KEY CHAPTER CONCEPTS. KEY REFERENCES - INCLUDED BOTH AT CHAPTER END AND IN A FULL REFERENCE LIST AT THE END OF THE BOOK. FULL CHAPTER ON GENOMICS, BIOINFORMATICS AND PROTEOMICS - INCLUDES COVERAGE OF FUNCTIONAL GENOMICS AND MICROARRAYS. DEDICATED WEBSITE - ANIMATIONS, STUDY RESOURCES, WEB RESEARCH QUESTIONS AND ILLUSTRATIONS DOWNLOADABLE FOR POWERPOINT FILES PROVIDE STUDENTS AND INSTRUCTORS WITH AN ENHANCED, INTERACTIVE EXPERIENCE.

EMERY'S ELEMENTS OF MEDICAL GENETICS - PETER D. TURNPENNY 2005

THIS HIGHLY POPULAR TEXTBOOK OF MEDICAL GENETICS COVERS BOTH THE SCIENTIFIC BASIS AND CLINICAL APPLICATIONS OF GENETICS. IT REMAINS WELL WRITTEN AND EASY TO UNDERSTAND - TWO OF ITS KEY STRENGTHS FOR 35 YEARS. FOR THIS NEW EDITION, THE CONTENT HAS BEEN THOROUGHLY UPDATED TO KEEP ABREAST OF THIS FAST-CHANGING AREA, INCLUDING MOLECULAR GENETICS, DNA TECHNOLOGY, AND ETHICS. IT ALSO FEATURES A NEW SELF-TESTING SECTION, NEW CLINICAL EXAMPLES, AND UPDATED AND IMPROVED CLINICAL PHOTOGRAPHS. THE SMART WAY TO STUDY ELSEVIER TITLES WITH STUDENT CONSULT WILL HELP YOU MASTER DIFFICULT CONCEPTS AND STUDY MORE EFFICIENTLY IN PRINT AND ONLINE PERFORM RAPID SEARCHES. INTEGRATE BONUS CONTENT FROM OTHER DISCIPLINES. DOWNLOAD TEXT TO YOUR HANDHELD DEVICE. AND A LOT MORE. EACH STUDENT CONSULT TITLE COMES WITH FULL TEXT ONLINE, A UNIQUE IMAGE LIBRARY, CASE STUDIES, USMLE STYLE QUESTIONS, AND ONLINE NOTE-TAKING TO ENHANCE YOUR LEARNING EXPERIENCE.

SUPER GENES - DEEPAK CHOPRA, M.D. 2017-02-07

THE AUTHORS OF THE NEW YORK TIMES BESTSELLER SUPER BRAIN PRESENT A BOLD NEW UNDERSTANDING OF OUR GENES AND HOW SIMPLE CHANGES IN LIFESTYLE CAN BOOST GENETIC ACTIVITY. THE LEAP INTO "RADICAL WELL-BEING" IS A PROMISE WAITING TO BE FULFILLED. "YOU ARE NOT SIMPLY THE SUM TOTAL OF THE GENES YOU WERE BORN WITH," WRITES DEEPAK CHOPRA AND RUDY TANZI. "YOU ARE THE USER AND CONTROLLER OF YOUR GENES, THE AUTHOR OF YOUR BIOLOGICAL STORY. NO PROSPECT IN SELF-CARE IS MORE EXCITING." LEARNING HOW TO SHAPE YOUR GENE ACTIVITY IS AT THE HEART OF THIS EXCITING AND EAGERLY-ANTICIPATED BOOK FROM THE BESTSELLING DUO BEHIND SUPER BRAIN, WHICH BECAME A NATIONWIDE HIT ON PUBLIC TELEVISION. FOR DECADES MEDICAL SCIENCE HAS BELIEVED THAT GENES DETERMINED OUR BIOLOGICAL DESTINY. NOW THE NEW GENETICS HAS CHANGED THAT ASSUMPTION FOREVER. YOU WILL ALWAYS HAVE THE GENES YOU WERE BORN WITH, BUT GENES ARE DYNAMIC, RESPONDING TO EVERYTHING WE THINK, SAY, AND DO. SUDDENLY THEY'VE BECOME OUR STRONGEST ALLIES FOR PERSONAL TRANSFORMATION. WHEN YOU MAKE LIFESTYLE CHOICES THAT OPTIMIZE HOW YOUR GENES BEHAVE, YOU CAN REACH FOR A STATE OF HEALTH AND FULFILLMENT UNDREAMED OF EVEN A DECADE AGO. THE IMPACT ON PREVENTION, IMMUNITY, DIET, AGING, AND CHRONIC DISORDERS IS UNPARALLELED.

INTRODUCING GENETICS - ALISON THOMAS 2014-12-18

THE NEW EDITION OF INTRODUCING GENETICS IS A CLEAR, CONCISE, AND ACCESSIBLE GUIDE TO INHERITANCE AND VARIATION IN INDIVIDUALS AND POPULATIONS. IT FIRST ESTABLISHES THE PRINCIPLES OF MENDELIAN INHERITANCE AND THE NATURE OF CHROMOSOMES, BEFORE TACKLING QUANTITATIVE AND POPULATION GENETICS. THE FINAL THREE CHAPTERS INTRODUCE THE MOLECULAR MECHANISMS T

GENETICS - DANIEL L. HARTL 2017-12-05

GENETICS: ANALYSIS OF GENES AND GENOMES CONTINUES TO TREAT TRANSMISSION GENETICS, MOLECULAR GENETICS, AND EVOLUTIONARY GENETICS AS FULLY INTEGRATED SUBJECTS AND PROVIDES STUDENTS WITH AN UNPRECEDENTED UNDERSTANDING OF THE BASIC PROCESS OF GENE TRANSMISSION, MUTATION, EXPRESSION, AND REGULATION.

EVOLUTION AND HUMAN BEHAVIOUR - JOHN CARTWRIGHT 2016-09-30

THIS STUDY PROVIDES AN OVERVIEW OF THE KEY THEORETICAL PRINCIPLES OF HUMAN SOCIOBIOLOGY AND EVOLUTIONARY PSYCHOLOGY AND SHOWS HOW THEY ILLUMINATE THE WAY HUMANS THINK AND BEHAVE.

CRIMINOLOGIA GENÉTICA - PERSPECTIVAS E PERIGOS

WHO WE ARE AND HOW WE GOT HERE - DAVID REICH (OF HARVARD MEDICAL SCHOOL) 2018

DAVID REICH DESCRIBES HOW THE REVOLUTION IN THE ABILITY TO SEQUENCE ANCIENT DNA HAS CHANGED OUR UNDERSTANDING OF THE DEEP HUMAN PAST. THIS BOOK TELLS THE EMERGING STORY OF OUR OFTEN SURPRISING ANCESTRY - THE EXTRAORDINARY ANCIENT MIGRATIONS AND MIXTURES OF POPULATIONS THAT HAVE MADE US WHO WE ARE.

FLY PUSHING - RALPH J. GREENSPAN 2004

A SECOND EDITION OF THE CLASSIC HANDBOOK HAS BECOME A STANDARD IN THE *DROSOPHILA* FIELD. THIS EDITION IS EXPANDED TO INCLUDE TOPICS IN WHICH CLASSICAL GENETIC STRATEGIES HAVE BEEN AUGMENTED WITH NEW MOLECULAR TOOLS. INCLUDED ARE SUCH NEW

TECHNIQUES AS HOMOLOGOUS RECOMBINATION, RNAi, NEW MAPPING TECHNIQUES, AND NEW MOSAIC MARKING TECHNIQUES.

STATISTICAL METHODS IN BIOINFORMATICS - WARREN J. EWENS 2013-03-09

THERE WAS A REAL NEED FOR A BOOK THAT INTRODUCES STATISTICS AND PROBABILITY AS THEY APPLY TO BIOINFORMATICS. THIS BOOK PRESENTS AN ACCESSIBLE INTRODUCTION TO ELEMENTARY PROBABILITY AND STATISTICS AND DESCRIBES THE MAIN STATISTICAL APPLICATIONS IN THE FIELD.

LEWIN'S ESSENTIAL GENES - JOCELYN E. KREBS 2020-02-10

EXTENSIVELY REORGANIZED AND REVISED WITH THE LATEST DATA FROM THIS RAPIDLY CHANGING FIELD, LEWIN'S ESSENTIAL GENES, THIRD EDITION, PROVIDES STUDENTS WITH A COMPREHENSIVE OVERVIEW OF MOLECULAR BIOLOGY AND MOLECULAR GENETICS.

BEHAVIORAL GENETICS - VALERIE S. KNOPIK 2016-10-02

AUTHORED BY LEADING EXPERTS IN THE FIELD, THE NEW 7TH EDITION OF THIS CLASSIC TEXT PROVIDES THE MOST UP-TO-DATE AND COMPREHENSIVE INTRODUCTION TO BEHAVIOURAL GENETICS AVAILABLE TODAY. BEHAVIOURAL GENETICS, 7TH EDITION INTRODUCES STUDENTS TO THE FIELD'S UNDERLYING PRINCIPLES, DEFINING EXPERIMENTS, ON-GOING CONTROVERSIES, AND MOST RECENT DISCOVERIES. THE TEXT PROVIDES STUDENTS WITH AN UNDERSTANDING OF HEREDITY, IT'S DNA BASIS, THE METHODS USED TO DISCOVER GENETIC INFLUENCE ON BEHAVIOUR AND IDENTIFY SPECIFIC GENES. IT THEN EXAMINES WHAT IS KNOWN ABOUT GENETIC INFLUENCE ON COGNITIVE ABILITY, PSYCHOPATHOLOGY, SUBSTANCE ABUSE, PERSONALITY, HEALTH PSYCHOLOGY, AND AGING. FINALLY, IT LOOKS TO THE FUTURE OF THE FIELD, WHERE SOME OF THE MOST EXCITING DEVELOPMENTS IN BEHAVIOURAL SCIENCES ARE BEING MADE.

ESSENTIAL GENETICS - DANIEL L. HARTL 2014

THIS BOOK PROVIDES AN INTRODUCTION TO MODERN GENETICS.

GENETICS. FROM GENES TO GENOMES - MICHAEL L. GOLDBERG 2020-12-29

THE SCIENCE OF GENETICS IS LESS THAN 150 YEARS OLD, BUT ITS ACCOMPLISHMENTS WITHIN THAT SHORT TIME HAVE BEEN ASTONISHING. GREGOR MENDEL FIRST DESCRIBED GENES AS ABSTRACT UNITS OF INHERITANCE IN 1865; HIS WORK WAS IGNORED AND THEN REDISCOVERED IN 1900. THOMAS HUNT MORGAN AND HIS STUDENTS PROVIDED EXPERIMENTAL VERIFICATION OF THE IDEA THAT GENES RESIDE WITHIN CHROMOSOMES DURING THE YEARS 1910-1920. BY 1944, OSWALD AVERY AND HIS COWORKERS HAD ESTABLISHED THAT GENES ARE MADE OF DNA. JAMES WATSON AND FRANCIS CRICK PUBLISHED THEIR PATHBREAKING STRUCTURE OF DNA IN 1953. REMARKABLY, LESS THAN 50 YEARS LATER (IN 2001), AN INTERNATIONAL CONSORTIUM OF INVESTIGATORS DECIPHERED THE SEQUENCE OF THE 3 BILLION NUCLEOTIDES IN THE HUMAN GENOME. TWENTIETH CENTURY GENETICS MADE IT POSSIBLE TO IDENTIFY INDIVIDUAL GENES AND TO UNDERSTAND A GREAT DEAL ABOUT THEIR FUNCTIONS. TODAY, SCIENTISTS ARE ABLE TO ACCESS THE ENORMOUS AMOUNTS OF GENETIC DATA GENERATED BY THE SEQUENCING OF MANY ORGANISMS' GENOMES. ANALYSIS OF THESE DATA WILL RESULT IN A DEEPER UNDERSTANDING OF THE COMPLEX MOLECULAR INTERACTIONS WITHIN AND AMONG VAST NETWORKS OF GENES, PROTEINS, AND OTHER MOLECULES THAT HELP BRING ORGANISMS TO LIFE. FINDING NEW METHODS AND TOOLS FOR ANALYZING THESE DATA WILL BE A SIGNIFICANT PART OF GENETICS IN THE TWENTY-FIRST CENTURY. OUR SEVENTH EDITION OF GENETICS: FROM GENES TO GENOMES EMPHASIZES BOTH THE CORE CONCEPTS OF GENETICS AND THE CUTTING-EDGE DISCOVERIES, MODERN TOOLS, AND ANALYTIC METHODS THAT WILL KEEP THE SCIENCE OF GENETICS MOVING FORWARD. THE AUTHORS OF THE SEVENTH EDITION HAVE WORKED TOGETHER IN REVISING EVERY CHAPTER IN AN EFFORT NOT ONLY TO PROVIDE THE MOST UP-TO-DATE INFORMATION, BUT ALSO TO PROVIDE CONTINUITY AND THE clearest possible explanations of difficult concepts in one voice

SNYDER AND CHAMPNESS MOLECULAR GENETICS OF BACTERIA - TINA M. HENKIN 2020-10-27

THE SINGLE MOST COMPREHENSIVE AND AUTHORITATIVE TEXTBOOK ON BACTERIAL MOLECULAR GENETICS SNYDER & CHAMPNESS MOLECULAR GENETICS OF BACTERIA IS A NEW EDITION OF A CLASSIC TEXT, UPDATED TO ADDRESS THE MASSIVE ADVANCES IN THE FIELD OF BACTERIAL MOLECULAR GENETICS AND RETITLED AS HOMAGE TO THE FOUNDING AUTHORS. IN AN ERA EXPERIENCING AN AVALANCHE OF NEW GENETIC SEQUENCE INFORMATION, THIS UPDATED EDITION PRESENTS IMPORTANT EXPERIMENTS AND ADVANCED MATERIAL RELEVANT TO CURRENT APPLICATIONS OF MOLECULAR GENETICS, INCLUDING CONCLUSIONS FROM AND APPLICATIONS OF GENOMICS; THE RELATIONSHIPS AMONG RECOMBINATION, REPLICATION, AND REPAIR AND THE IMPORTANCE OF ORGANIZING SEQUENCES IN DNA; THE MECHANISMS OF REGULATION OF GENE EXPRESSION; THE NEWEST ADVANCES IN BACTERIAL CELL BIOLOGY; AND THE COORDINATION OF CELLULAR PROCESSES DURING THE BACTERIAL CELL CYCLE. THE TOPICS ARE INTEGRATED THROUGHOUT WITH BIOCHEMICAL, GENOMIC, AND STRUCTURAL INFORMATION, ALLOWING READERS TO GAIN A DEEPER UNDERSTANDING OF MODERN BACTERIAL MOLECULAR GENETICS AND ITS RELATIONSHIP TO OTHER FIELDS OF MODERN BIOLOGY. ALTHOUGH THE TEXT IS CENTERED ON THE MOST-STUDIED BACTERIA, *ESCHERICHIA COLI* AND *BACILLUS SUBTILIS*, MANY EXAMPLES ARE DRAWN FROM OTHER BACTERIA OF EXPERIMENTAL, MEDICAL, ECOLOGICAL, AND BIOTECHNOLOGICAL IMPORTANCE. THE BOOK'S MANY USEFUL FEATURES INCLUDE TEXT BOXES TO HELP STUDENTS MAKE CONNECTIONS TO RELEVANT TOPICS RELATED TO OTHER ORGANISMS, INCLUDING HUMANS A SUMMARY OF MAIN POINTS AT THE END OF EACH CHAPTER QUESTIONS FOR DISCUSSION AND INDEPENDENT THOUGHT A LIST OF SUGGESTED READINGS FOR BACKGROUND AND FURTHER INVESTIGATION IN EACH CHAPTER FULLY ILLUSTRATED WITH DETAILED DIAGRAMS AND PHOTOS IN FULL COLOR A GLOSSARY OF TERMS HIGHLIGHTED IN THE TEXT WHILE INTENDED AS AN UNDERGRADUATE OR BEGINNING

GRADUATE TEXTBOOK, MOLECULAR GENETICS OF BACTERIA IS AN INVALUABLE REFERENCE FOR ANYONE WORKING IN THE FIELDS OF MICROBIOLOGY, GENETICS, BIOCHEMISTRY, BIOENGINEERING, MEDICINE, MOLECULAR BIOLOGY, AND BIOTECHNOLOGY. "THIS IS A MARVELOUS TEXTBOOK THAT IS COMPLETELY UP-TO-DATE AND COMPREHENSIVE, BUT NOT OVERWHELMING. THE CLEAR PROSE AND EXCELLENT FIGURES MAKE IT IDEAL FOR USE IN TEACHING BACTERIAL MOLECULAR GENETICS." —CAROLINE HARWOOD, UNIVERSITY OF WASHINGTON

LEWIN'S GENES X - BENJAMIN LEWIN 2011

JACKET.

CONCEPTS OF GENETICS, GLOBAL EDITION - WILLIAM S KLUG 2019-02-26

FOR ALL INTRODUCTORY GENETICS COURSES. CONCEPTS OF GENETICS EMPHASIZES THE FUNDAMENTAL IDEAS OF GENETICS, WHILE EXPLORING MODERN TECHNIQUES AND APPLICATIONS OF GENETIC ANALYSIS. THIS BEST-SELLING TEXT CONTINUES TO PROVIDE UNDERSTANDABLE EXPLANATIONS OF COMPLEX, ANALYTICAL TOPICS AND RECOGNISES THE IMPORTANCE OF TEACHING STUDENTS HOW TO BECOME EFFECTIVE PROBLEM SOLVERS. THE 12TH EDITION HAS BEEN EXTENSIVELY UPDATED TO PROVIDE COMPREHENSIVE COVERAGE OF IMPORTANT, EMERGING TOPICS SUCH AS CRISPR-CAS AND THE STUDY OF POSTTRANSCRIPTIONAL GENE REGULATION IN EUKARYOTES. AN EXPANDED EMPHASIS ON ETHICAL CONSIDERATIONS THAT GENETICS IS BRINGING INTO EVERYDAY LIFE IS ADDRESSED IN GENETICS, ETHICS, AND SOCIETY AND CASE STUDY FEATURES. THE FULL TEXT DOWNLOADED TO YOUR COMPUTER WITH eBooks YOU CAN: SEARCH FOR KEY CONCEPTS, WORDS AND PHRASES MAKE HIGHLIGHTS AND NOTES AS YOU STUDY SHARE YOUR NOTES WITH FRIENDS eBooks ARE DOWNLOADED TO YOUR COMPUTER AND ACCESSIBLE EITHER OFFLINE THROUGH THE BOOKSHELF (AVAILABLE AS A FREE DOWNLOAD), AVAILABLE ONLINE AND ALSO VIA THE iPad AND ANDROID APPS. UPON PURCHASE, YOU WILL RECEIVE VIA EMAIL THE CODE AND INSTRUCTIONS ON HOW TO ACCESS THIS PRODUCT. TIME LIMIT THE eBooks PRODUCTS DO NOT HAVE AN EXPIRY DATE. YOU WILL CONTINUE TO ACCESS YOUR DIGITAL EBOOK PRODUCTS WHILST YOU HAVE YOUR BOOKSHELF INSTALLED.

LEWIN'S GENES XII - JOCELYN E. KREBS 2017-03-02

NOW IN ITS TWELFTH EDITION, LEWIN'S GENES CONTINUES TO LEAD WITH NEW INFORMATION AND CUTTING-EDGE DEVELOPMENTS, COVERING GENE STRUCTURE, SEQUENCING, ORGANIZATION, AND EXPRESSION. LEADING SCIENTISTS PROVIDE REVISIONS AND UPDATES IN THEIR INDIVIDUAL FIELD OF STUDY OFFERING READERS CURRENT DATA AND INFORMATION ON THE RAPIDLY CHANGING SUBJECTS IN MOLECULAR BIOLOGY.

GENÉTICA MOLECULAR HUMANA TOM STRACHAN 2016-10-01

GENÉTICA MOLECULAR HUMANA, 4ª EDIÇÃO, FOI ELABORADA DE MODO A FACILITAR A COMPREENSÃO DESTA DISCIPLINA EMOCIONANTE E DE RÁPIDO AVANÇO. TÓPICOS COMO EPIGENÉTICA, RNAs NÃO CODIFICANTES E BIOLOGIA CELULAR, INCLUINDO CÍCLULAS-TRONCO, RECEBERAM MAIOR DESTAQUE, O MESMO OCORRENDO EM RELAÇÃO AOS PRINCIPAIS MODELOS ANIMAIS UTILIZADOS EM ESTUDOS GENÉTICOS E A MANEIRA COMO SÃO APLICADOS PARA AUXILIAR NA COMPREENSÃO DE DOENÇAS HUMANAS. FORAM INCLuíDOS, AINDA, OS RECENTES AVANÇOS EM SEQUENCIAMENTO DE NOVA GERAÇÃO E GENÉTICA COMPARADA.

PRINCIPLES OF GENETICS - ELDON JOHN GARDNER 1991-01-17

AN EXAMINATION OF THE FIELD OF GENETICS, WITH AN EMPHASIS ON APPLICATIONS. WRITTEN PRIMARILY FOR STUDENTS, THIS BOOK PROVIDES UP-TO-DATE COVERAGE OF THE MOST RECENT TECHNIQUES USED IN MODERN GENETICS, SUCH AS GENE CLONING AND PLANT ANALYSES OF GENES AND GENE PRODUCTS.

FUNGAL GENETICS - CEES BOS 1996-03-12

THIS IS A CONCISE GUIDE TO THE COMBINED USE OF CLASSICAL AND MOLECULAR METHODS FOR THE GENETIC ANALYSIS AND BREEDING OF FUNGI. IT PRESENTS BASIC CONCEPTS AND EXPERIMENTAL DESIGNS, AND DEMONSTRATES THE POWER OF FUNGAL GENETICS FOR APPLIED RESEARCH IN BIOTECHNOLOGY AND PHYTOPATHOLOGY. CASE STUDIES OF SACCHAROMYCES CEREVISIAE, CANDIDA ALBICANS, ASPERGILLUS NIGER, NEUROSPORA CRASSA, PODOSPORA ANSERINA, PHYTOPHTHORA INFESTANS AND OTHERS ARE INCLUDED.

A STATISTICAL APPROACH TO GENETIC EPIDEMIOLOGY - ANDREAS ZIEGLER 2010-06-14

A STATISTICAL APPROACH TO GENETIC EPIDEMIOLOGY AFTER STUDYING STATISTICS AND MATHEMATICS AT THE UNIVERSITY OF MUNICH AND OBTAINING HIS DOCTORAL DEGREE FROM THE UNIVERSITY OF DORTMUND, ANDREAS ZIEGLER RECEIVED THE JOHANN-PETER-SMILCH-MEDAL OF THE GERMAN ASSOCIATION FOR MEDICAL INFORMATICS, BIOMETRY AND EPIDEMIOLOGY FOR HIS POST-DOCTORAL WORK ON "MODEL FREE LINKAGE ANALYSIS OF QUANTITATIVE TRAITS" IN 1999. IN 2004, HE WAS ONE OF THE RECIPIENTS OF THE FRITZ-LINDER-FORUM-AWARD FROM THE GERMAN ASSOCIATION FOR SURGERY.

RECOMBINANT DNA: GENES AND GENOMES - JAMES D. WATSON 2007

RECOMBINANT DNA, THIRD EDITION, IS AN ESSENTIAL TEXT FOR UNDERGRADUATE, GRADUATE, AND PROFESSIONAL COURSES IN GENOMICS, CELL AND MOLECULAR BIOLOGY, RECOMBINANT DNA, GENETIC ENGINEERING, HUMAN GENETICS, BIOTECHNOLOGY, AND BIOINFORMATICS. THE THIRD EDITION OF THIS LANDMARK TEXT OFFERS AN AUTHORITATIVE, ACCESSIBLE, AND ENGAGING INTRODUCTION TO MODERN, GENOME-CENTERED BIOLOGY FROM ITS FOREMOST PRACTITIONERS. THE NEW EDITION EXPLORES CORE CONCEPTS IN MOLECULAR BIOLOGY IN A CONTEMPORARY INQUIRY-BASED CONTEXT, BUILDING ITS COVERAGE AROUND THE MOST RELEVANT AND EXCITING EXAMPLES OF CURRENT RESEARCH AND LANDMARK EXPERIMENTS THAT REDEFINED OUR UNDERSTANDING OF DNA. AS A RESULT, STUDENTS LEARN HOW WORKING SCIENTISTS MAKE REAL HIGH-IMPACT DISCOVERIES. THE FIRST CHAPTERS PROVIDE AN INTRODUCTION TO THE FUNDAMENTAL CONCEPTS OF GENETICS AND GENOMICS, AN INSIDE LOOK AT THE HUMAN GENOME PROJECT, BIOINFORMATIC AND EXPERIMENTAL TECHNIQUES FOR LARGE-SCALE GENOMIC STUDIES, AND A SURVEY OF EPIGENETICS AND RNA INTERFERENCE. THE FINAL CHAPTERS COVER THE QUEST TO IDENTIFY DISEASE-CAUSING GENES, THE GENETIC BASIS OF CANCER, AND DNA FINGERPRINTING AND FORENSICS. IN THESE CHAPTERS THE AUTHORS PROVIDE EXAMPLES OF PRACTICAL APPLICATIONS IN HUMAN MEDICINE, AND DISCUSS THE FUTURE OF HUMAN GENETICS AND GENOMICS PROJECTS.

CRISPR - YOLANDA RIDGE 2020-09-08

WE CAN CHANGE THE WORLD WITH GENETIC MODIFICATION--BUT SHOULD WE? CRISPR STANDS FOR CLUSTERED REGULARLY INTERSPACED SHORT PALINDROMIC REPEATS. IF IT SOUNDS COMPLICATED, IT IS--BUT IT'S ALSO ONE OF THE MOST POWERFUL WAYS WE CAN SHAPE THE FUTURE. AND IT'S POISED TO COMPLETELY UPEND THE WAY WE THINK ABOUT SCIENCE. AUTHOR YOLANDA RIDGE TACKLES THIS TOPIC IN A FRIENDLY AND ACCESSIBLE TONE, WITH TWO INTRODUCTORY CHAPTERS COVERING THE BASICS OF DNA AND GENETIC

MODIFICATION BEFORE TAKING READERS THROUGH THE WAYS THAT THIS GROUND-BREAKING SCIENCE COULD AFFECT THEM BY POTENTIALLY: - ELIMINATING DISEASES LIKE MALARIA AND CANCER, - IMPROVING THE STABILITY OF OUR FOOD SUPPLY, AND - HELPING TO MANAGE CONSERVATION EFFORTS FOR THREATENED ANIMALS AND ENVIRONMENTS. BUT ALL OF THESE POSSIBLE ADVANCEMENTS COME WITH RISKS, THE BIGGEST BEING THAT THE CONSEQUENCES ARE UNKNOWN. CHAPTERS END WITH "STOP, GO, YIELD" SECTIONS ENCOURAGING READERS TO CONSIDER THE PROS AND CONS OF USING CRISPR. "CUTTING QUESTIONS" GIVE READERS THE OPPORTUNITY TO FURTHER REFLECT ON THE ETHICS OF THE SCIENCE. CRISPR IS A GAME CHANGER. THIS IMPORTANT BOOK, WITH DETAILED SCIENTIFIC ILLUSTRATIONS, BRINGS MUCH NEEDED CLARITY TO A TOPIC THAT WILL AFFECT READERS FOR GENERATIONS TO COME.

THE HANDBOOK OF EVOLUTIONARY PSYCHOLOGY, VOLUME 1 - DAVID M. BUSS 2015-11-02

THE INDISPENSABLE REFERENCE TOOL FOR THE GROUNDBREAKING SCIENCE OF EVOLUTIONARY PSYCHOLOGY WHY IS THE MIND DESIGNED THE WAY IT IS? HOW DOES INPUT FROM THE ENVIRONMENT INTERACT WITH THE MIND TO PRODUCE BEHAVIOR? THESE ARE THE BIG, UNANSWERED QUESTIONS THAT THE FIELD OF EVOLUTIONARY PSYCHOLOGY SEEKS TO EXPLORE. THE HANDBOOK OF EVOLUTIONARY PSYCHOLOGY IS THE SEMINAL WORK IN THIS VIBRANT, QUICKLY-DEVELOPING NEW DISCIPLINE. IN THIS THOROUGH REVISION AND EXPANSION, LUMINARIES IN THE FIELD PROVIDE AN IN-DEPTH EXPLORATION OF THE FOUNDATIONS OF EVOLUTIONARY PSYCHOLOGY AND EXPLAIN THE NEW EMPIRICAL DISCOVERIES AND THEORETICAL DEVELOPMENTS THAT CONTINUE AT A BREATHTAKING PACE. EVOLUTIONARY PSYCHOLOGISTS POSIT THAT THE MIND HAS A SPECIALIZED AND COMPLEX STRUCTURE, JUST AS THE BODY HAS A SPECIALIZED AND COMPLEX STRUCTURE. FROM THIS IMPORTANT THEORETICAL CONCEPT ARISES THE VAST ARRAY OF POSSIBILITIES THAT ARE AT THE CORE OF THE FIELD, WHICH SEEKS TO EXAMINE SUCH TRAITS AS PERCEPTION, LANGUAGE, AND MEMORY FROM AN EVOLUTIONARY PERSPECTIVE. THIS EXAMINATION IS INTENDED TO DETERMINE THE HUMAN PSYCHOLOGICAL TRAITS THAT ARE THE PRODUCTS OF SEXUAL AND NATURAL SELECTION AND, AS SUCH, TO CHART AND UNDERSTAND HUMAN NATURE. JOIN THE DISCUSSION OF THE BIG QUESTIONS ADDRESSED BY THE BURGEONING FIELD OF EVOLUTIONARY PSYCHOLOGY EXPLORE THE FOUNDATIONS OF EVOLUTIONARY PSYCHOLOGY, FROM THEORY AND METHODS TO THE THOUGHTS OF EP CRITICS DISCOVER THE PSYCHOLOGY OF HUMAN SURVIVAL, MATING, PARENTING, COOPERATION AND CONFLICT, CULTURE, AND MORE IDENTIFY HOW EVOLUTIONARY PSYCHOLOGY IS INTERWOVEN WITH OTHER ACADEMIC SUBJECTS AND TRADITIONAL PSYCHOLOGICAL DISCIPLINES THE HANDBOOK OF EVOLUTIONARY PSYCHOLOGY IS THE DEFINITIVE GUIDE FOR EVERY PSYCHOLOGIST AND STUDENT INTERESTED IN KEEPING ABREAST OF NEW IDEAS IN THIS QUICKLY-DEVELOPING FIELD.

MOLECULAR DIAGNOSTICS - WILLIAM B. COLEMAN 2007-10-28

ACCOMPANYING CD-ROM CONTAINS ... "A COMPANION eBook VERSION OF MOLECULAR DIAGNOSTICS: FOR THE CLINICAL LABORATORIAN, SECOND EDITION ... FOR DOWNLOADING AND USE IN THE READER'S PC OR PDA."--PAGE 4 OF COVER.

GENOMES 3 - TERENCE A. BROWN 2007

THE VITALBOOK E-BOOK VERSION OF GENOMES 3 IS ONLY AVAILABLE IN THE US AND CANADA AT THE PRESENT TIME. TO PURCHASE OR RENT PLEASE VISIT [HTTP://STORE.VITALSOURCE.COM/SHOW/9780815341383](http://store.vitalsource.com/show/9780815341383) COVERING MOLECULAR GENETICS FROM THE BASICS THROUGH TO GENOME EXPRESSION AND MOLECULAR PHYLOGENETICS, GENOMES 3 IS THE LATEST EDITION OF THIS PIONEERING TEXTBOOK. UPDATED TO INCORPORATE THE RECENT MAJOR ADVANCES, GENOMES 3 IS AN INVALUABLE COMPANION FOR ANY UNDERGRADUATE THROUGHOUT THEIR STUDIES IN MOLECULAR GENETICS. GENOMES 3 BUILDS ON THE ACHIEVEMENTS OF THE PREVIOUS TWO EDITIONS BY PUTTING GENOMES, RATHER THAN GENES, AT THE CENTRE OF MOLECULAR GENETICS TEACHING. RECOGNIZING THAT MOLECULAR BIOLOGY RESEARCH WAS BEING DRIVEN MORE BY GENOME SEQUENCING AND FUNCTIONAL ANALYSIS THAN BY RESEARCH INTO GENES, THIS APPROACH HAS GATHERED MOMENTUM IN RECENT YEARS.

ESSENTIALS OF GENETICS, GLOBAL EDITION - WILLIAM S. KLUG 2020-08-04

FOR ALL INTRODUCTORY GENETICS COURSES. KNOWN FOR ITS FOCUS ON CONCEPTUAL UNDERSTANDING, PROBLEM SOLVING, AND PRACTICAL APPLICATIONS, THE BESTSELLING ESSENTIALS OF GENETICS STRENGTHENS PROBLEM-SOLVING SKILLS AND EXPLORES THE ESSENTIAL GENETICS TOPICS THAT TODAY'S STUDENTS NEED TO UNDERSTAND. THE 10TH EDITION HAS BEEN EXTENSIVELY UPDATED TO PROVIDE COMPREHENSIVE COVERAGE OF IMPORTANT, EMERGING TOPICS SUCH AS CRISPR-CAS, EPIGENETICS, AND GENETIC TESTING. ADDITIONALLY, A NEW SPECIAL TOPICS CHAPTER COVERS ADVANCES IN NEUROGENETICS WITH A FOCUS ON HUNTINGTON DISEASE, AND NEW ESSAYS ON GENETICS, ETHICS, AND SOCIETY EMPHASISE ETHICAL CONSIDERATIONS THAT GENETICS IS BRINGING INTO EVERYDAY LIFE. THE FULL TEXT DOWNLOADED TO YOUR COMPUTER WITH eBooks YOU CAN: SEARCH FOR KEY CONCEPTS, WORDS AND PHRASES MAKE HIGHLIGHTS AND NOTES AS YOU STUDY SHARE YOUR NOTES WITH FRIENDS eBooks ARE DOWNLOADED TO YOUR COMPUTER AND ACCESSIBLE EITHER OFFLINE THROUGH THE BOOKSHELF (AVAILABLE AS A FREE DOWNLOAD), AVAILABLE ONLINE AND ALSO VIA THE iPad AND ANDROID APPS. UPON PURCHASE, YOU'LL GAIN INSTANT ACCESS TO THIS eBook. TIME LIMIT THE eBooks PRODUCTS DO NOT HAVE AN EXPIRY DATE. YOU WILL CONTINUE TO ACCESS YOUR DIGITAL EBOOK PRODUCTS WHILST YOU HAVE YOUR BOOKSHELF INSTALLED.

DNA - JAMES D. WATSON 2017-08-22

THE DEFINITIVE INSIDER'S HISTORY OF THE GENETIC REVOLUTION--SIGNIFICANTLY UPDATED TO REFLECT THE DISCOVERIES OF THE LAST DECADE. JAMES D. WATSON, THE NOBEL LAUREATE WHOSE PIONEERING WORK HELPED UNLOCK THE MYSTERY OF DNA'S STRUCTURE, CHARTS THE GREATEST SCIENTIFIC JOURNEY OF OUR TIME, FROM THE DISCOVERY OF THE DOUBLE HELIX TO TODAY'S CONTROVERSIES TO WHAT THE FUTURE MAY HOLD. UPDATED TO INCLUDE NEW FINDINGS IN GENE EDITING, EPIGENETICS, AGRICULTURAL CHEMISTRY, AS WELL AS TWO ENTIRELY NEW CHAPTERS ON PERSONAL GENOMICS AND CANCER RESEARCH. THIS IS THE MOST COMPREHENSIVE AND AUTHORITATIVE EXPLORATION OF DNA'S IMPACT--PRACTICAL, SOCIAL, AND ETHICAL--ON OUR SOCIETY AND OUR WORLD.

THE HANDBOOK OF EVOLUTIONARY PSYCHOLOGY, VOLUME 2 - DAVID M. BUSS 2015-10-26

A COMPLETE EXPLORATION OF THE REAL-WORLD APPLICATIONS AND IMPLICATIONS OF EVOLUTIONARY PSYCHOLOGY THE EXCITING AND SOMETIMES CONTROVERSIAL SCIENCE OF EVOLUTIONARY PSYCHOLOGY IS BECOMING INCREASINGLY RELEVANT TO MORE FIELDS OF STUDY THAN EVER BEFORE. THE HANDBOOK OF EVOLUTIONARY PSYCHOLOGY, VOLUME 2,

INTEGRATIONS PROVIDES STUDENTS AND RESEARCHERS WITH NEW INSIGHT INTO HOW EP DRAWS FROM, AND IS APPLIED IN, FIELDS AS DIVERSE AS ECONOMICS, ANTHROPOLOGY, NEUROSCIENCE, GENETICS, AND POLITICAL SCIENCE, AMONG OTHERS. IN THIS THOROUGH REVISION AND EXPANSION OF THE GROUNDBREAKING HANDBOOK, LUMINARIES IN THE FIELD PROVIDE AN IN-DEPTH EXPLORATION OF THE FOUNDATIONS OF EVOLUTIONARY PSYCHOLOGY AS THEY RELATE TO PUBLIC POLICY, CONSUMER BEHAVIOR, ORGANIZATIONAL LEADERSHIP, AND LEGAL ISSUES. EVOLUTIONARY PSYCHOLOGY SEEKS TO EXPLAIN THE REASONS BEHIND FRIENDSHIP, LEADERSHIP, WARFARE, MORALITY, RELIGION, AND CULTURE — IN SHORT, WHAT IT MEANS TO BE HUMAN. THIS ENLIGHTENING TEXT PROVIDES A FOUNDATIONAL KNOWLEDGE BASE IN EP, ALONG WITH EXPERT INSIGHTS AND THE MOST UP-TO-DATE COVERAGE OF RECENT THEORIES AND FINDINGS. EXPLORE THE VAST AND EXPANDING APPLICATIONS OF EVOLUTIONARY PSYCHOLOGY DISCOVER THE PSYCHOLOGY OF HUMAN SURVIVAL, MATING PARENTING, COOPERATION AND CONFLICT, CULTURE, AND MORE IDENTIFY HOW EVOLUTIONARY PSYCHOLOGY IS INTERWOVEN WITH OTHER ACADEMIC SUBJECTS AND TRADITIONAL PSYCHOLOGICAL DISCIPLINES DISCUSS FUTURE APPLICATIONS OF THE CONCEPTUAL TOOLS OF EVOLUTIONARY PSYCHOLOGY AS THE ESTABLISHED STANDARD IN THE FIELD, THE HANDBOOK OF EVOLUTIONARY PSYCHOLOGY, VOLUME 2 IS THE DEFINITIVE GUIDE FOR EVERY PSYCHOLOGIST AND STUDENT TO UNDERSTAND THE LATEST AND MOST EXCITING APPLICATIONS OF EVOLUTIONARY PSYCHOLOGY.

THE GENETIC LOTTERY - KATHRYN PAIGE HARDEN 2021-09-21

A PROVOCATIVE AND TIMELY CASE FOR HOW THE SCIENCE OF GENETICS CAN HELP CREATE A MORE JUST AND EQUAL SOCIETY IN RECENT YEARS, SCIENTISTS LIKE KATHRYN PAIGE HARDEN HAVE SHOWN THAT DNA MAKES US DIFFERENT, IN OUR PERSONALITIES AND IN OUR HEALTH—AND IN WAYS THAT MATTER FOR EDUCATIONAL AND ECONOMIC SUCCESS IN OUR CURRENT SOCIETY. IN THE GENETIC LOTTERY, HARDEN INTRODUCES READERS TO THE LATEST GENETIC SCIENCE, DISMANTLING DANGEROUS IDEAS ABOUT RACIAL SUPERIORITY AND CHALLENGING US TO GRAPPLE WITH WHAT EQUALITY REALLY MEANS IN A WORLD WHERE PEOPLE ARE BORN DIFFERENT. WEAVING TOGETHER PERSONAL STORIES WITH SCIENTIFIC EVIDENCE, HARDEN SHOWS WHY OUR REFUSAL TO RECOGNIZE THE POWER OF DNA PERPETUATES THE MYTH OF MERITOCRACY, AND ARGUES THAT WE MUST ACKNOWLEDGE THE ROLE OF GENETIC LUCK IF WE ARE EVER TO CREATE A FAIR SOCIETY. RECLAIMING GENETIC SCIENCE FROM THE LEGACY OF EUGENICS, THIS GROUNDBREAKING BOOK OFFERS A BOLD NEW VISION OF SOCIETY WHERE EVERYONE THRIVES, REGARDLESS OF HOW ONE FARES IN THE GENETIC LOTTERY.

ANALYSIS OF GENES AND GENOMES - RICHARD J. REECE 2020-06-12

ALL ASPECTS OF GENETIC ENGINEERING IN THE POST-GENOMIC ERA ARE COVERED, BEGINNING WITH THE BASICS OF DNA STRUCTURE AND DNA METABOLISM. STRONG EMPHASIS IS PLACED ON THE LATEST, POST GENOMIC TECHNOLOGIES INCLUDING DNA MACRO AND MICROARRAYS, GENOME-WIDE TWO HYBRID ANALYSIS, PROTEOMICS AND BIOINFORMATICS. AN EXAMPLE DRIVEN PAST-TO-PRESENT APPROACH TO ALLOW THE EXPERIMENTS OF TODAY TO BE PLACED IN AN HISTORICAL CONTEXT ASSOCIATED WEBSITE INCLUDING UPDATES, ADDITIONAL CONTENT AND ILLUSIONS

GENETICS FOR DUMMIES - TARA RODDEN ROBINSON 2020-01-02

YOUR NO-NONSENSE GUIDE TO GENETICS WITH RAPID ADVANCES IN GENOMIC TECHNOLOGIES, GENETIC TESTING HAS BECOME A KEY PART OF BOTH CLINICAL PRACTICE AND RESEARCH. SCIENTISTS ARE CONSTANTLY DISCOVERING MORE ABOUT HOW GENETICS PLAYS A ROLE IN HEALTH AND DISEASE, AND HEALTHCARE PROVIDERS ARE USING THIS INFORMATION TO MORE ACCURATELY IDENTIFY THEIR PATIENTS' PARTICULAR MEDICAL NEEDS. GENETIC INFORMATION IS ALSO INCREASINGLY BEING USED FOR A WIDE RANGE OF NON-CLINICAL PURPOSES, SUCH AS EXPLORING ONE'S ANCESTRY. THIS NEW EDITION OF GENETICS FOR DUMMIES SERVES AS A PERFECT COURSE SUPPLEMENT FOR STUDENTS PURSUING DEGREES IN THE SCIENCES. IT ALSO PROVIDES SCIENCE-LOVERS OF ALL SKILL LEVELS WITH EASY-TO-FOLLOW AND EASY-TO-UNDERSTAND INFORMATION ABOUT THIS EXCITING AND CONSTANTLY EVOLVING FIELD. THIS EDITION INCLUDES RECENT DEVELOPMENTS AND APPLICATIONS IN THE FIELD OF GENETICS, SUCH AS: WHOLE-GENOME AND WHOLE-EXOME SEQUENCING PRECISION MEDICINE AND PHARMACOGENETICS DIRECT-TO-CONSUMER GENETIC TESTING FOR HEALTH RISKS ANCESTRY TESTING FEATURING INFORMATION ON SOME OF THE HOTTEST TOPICS IN GENETICS RIGHT NOW, THIS BOOK MAKES IT EASIER THAN EVER TO WRAP YOUR HEAD AROUND THIS FASCINATING SUBJECT.

GENÉTICA PARA MÉDICOS E ESTUDANTES DE MEDICINA - ANDRÁZKA ERNST KERCHER 2022-11-11

UM LIVRO FOCADO NO ENTENDIMENTO DE EVENTOS GENÉTICOS POR PROFISSIONAIS E ESTUDANTES DA REA DA SAÚDE. CADA EDIÇÃO ABORDA UM CONTEXTO ESPECÍFICO PARA UMA ESPECIALIDADE, ALÉM DE TRAZER CASOS CLÍNICOS REAIS COMENTADOS PARA FACILITAR O ENTENDIMENTO.

LEWIN'S GENES XI - JOCELYN E. KREBS 2014

MOLECULAR BIOLOGY IS A RAPIDLY ADVANCING FIELD WITH A CONSTANT FLOW OF NEW INFORMATION AND CUTTING-EDGE DEVELOPMENTS THAT IMPACT OUR LIVES. LEWIN'S GENES HAS LONG BEEN THE ESSENTIAL RESOURCE FOR PROVIDING THE TEACHING COMMUNITY WITH THE MOST MODERN PRESENTATION TO THIS DYNAMIC AREA OF STUDY. GENES XI CONTINUES

THIS TRADITION BY INTRODUCING THE MOST CURRENT DATA FROM THE FIELD, COVERING GENE STRUCTURE, SEQUENCING, ORGANIZATION, AND EXPRESSION. IT HAS ENLISTED A WEALTH OF SUBJECT-MATTER EXPERTS, FROM TOP INSTITUTIONS, TO PROVIDE CONTENT UPDATES AND REVISIONS IN THEIR INDIVIDUAL AREAS OF STUDY. A REORGANIZED CHAPTER PRESENTATION PROVIDES A CLEAR, MORE STUDENT-FRIENDLY INTRODUCTION TO COURSE MATERIAL THAN EVER BEFORE. - UPDATED CONTENT THROUGHOUT TO KEEP PACE WITH THIS FAST-PACED FIELD. - REORGANIZED CHAPTER PRESENTATION PROVIDES A CLEAR, STUDENT-FRIENDLY INTRODUCTION TO COURSE MATERIAL. - EXPANDED COVERAGE DESCRIBING THE CONNECTION BETWEEN REPLICATION AND THE CELL CYCLE IS INCLUDED, AND PRESENTS EUKARYOTES AS WELL AS PROKARYOTES. - AVAILABLE WITH NEW ONLINE MOLECULAR BIOLOGY ANIMATIONS. - ONLINE ACCESS CODE FOR THE COMPANION WEBSITE IS INCLUDED WITH EVERY NEW BOOK. THE COMPANION WEBSITE OFFERS NUMEROUS STUDY AIDS AND LEARNING TOOLS TO HELP STUDENTS GET THE MOST OUT OF THEIR COURSE. - INSTRUCTOR'S SUPPLEMENTS INCLUDE: POWERPOINT IMAGE BANK, POWERPOINT LECTURE SLIDES, AND TEST BANK.

- VERMA P.S. & AGARWAL V.K. 2010

THIS BOOK IS ESPECIALLY PREPARED FOR THE STUDENTS OF B.SC. AND M.SC. OF DIFFERENT INDIAN UNIVERSITIES AS PER UGC MODEL CURRICULUM. STUDENTS, PREPARING FOR MEDICAL ENTRANCE EXAMINATION, IAS, IFS, AND PCS ETC. WILL ALSO BE BENEFITED BY THIS BOOK. AT THE END OF SOME CHAPTERS OF GENETIC ENGINEERING MAY ENLIGHTEN THE TARGET READERS. ENTIRELY NEW INFORMATION ON QUANTITATIVE GENETICS AND IMMUNOGENETICS MAY ENTHRAL THE READERS. MCQ'S AND ANSWERS WILL ALSO BE HELPFUL FOR THE STUDENTS TO STRENGTHEN THEIR SELF CONFIDENCE. BY THE HELP OF NUMEROUS FIGURES, MANY TABLES, BOXES AND COLOURED PHOTOGRAPHS, THIS BOOK HAS TRIED TO SERVE A BALANCED ACCOUNT OF CLASSICAL GENETICS AND MODERN MOLECULAR GENETICS. • THIS BOOK IS FOR GRADUATE, P.G. STUDENTS OF BIOPHYSICS, MICROBIOLOGY & BIOLOGICAL SCIENCES.

INHERITANCE OF TRAITS - JEN GREEN 2014-01-01

"THIS FUN BOOK ABOUT DOG SHOWS TEACHES THE CORE CURRICULUM TOPIC OF INHERITANCE."--

THE GENIUS IN ALL OF US - DAVID SHENK 2011-03-08

"FRESH INSIGHTS INTO THE NATURE OF EXCEPTIONAL PERFORMANCE... A DEEPLY INTERESTING AND IMPORTANT BOOK" (NEW YORK TIMES BOOK REVIEW) THAT OFFERS A REVOLUTIONARY AND LIFE-CHANGING MESSAGE ON THE NEW SCIENCE OF HUMAN POTENTIAL. IS TRUE GREATNESS OBTAINABLE FROM EVERYDAY MEANS AND EVERYDAY GENES? CONVENTIONAL WISDOM SAYS NO, THAT A LUCKY FEW ARE SIMPLY BORN WITH CERTAIN GIFTS. NOW YOU CAN FORGET EVERYTHING YOU THINK YOU KNOW ABOUT GENES, TALENT, AND INTELLIGENCE, AND TAKE A LOOK AT THE AMAZING NEW EVIDENCE. HERE, INTERWEAVING CUTTING-EDGE RESEARCH FROM NUMEROUS SCIENTIFIC FIELDS, DAVID SHENK OFFERS A NEW VIEW OF HUMAN POTENTIAL, GIVING READERS MORE OF A SENSE OF OWNERSHIP OVER THEIR ACCOMPLISHMENTS, AND FREEING PARENTS FROM THE BONDS OF GENETIC DETERMINISM. AS SHENK POINTS OUT, OUR GENES ARE NOT A "BLUEPRINT" THAT DICTATE INDIVIDUAL DESTINIES. RATHER WE ARE ALL THE PRODUCT OF INTERPLAY BETWEEN GENES AND OUTSIDE STIMULI—A DYNAMIC THAT WE CAN INFLUENCE. IT IS A REVOLUTIONARY AND LIFE-CHANGING MESSAGE.

EDITING HUMANITY - KEVIN DAVIES 2020-10-06

ONE OF THE WORLD'S LEADING EXPERTS ON GENETICS UNRAVELS ONE OF THE MOST IMPORTANT BREAKTHROUGHS IN MODERN SCIENCE AND MEDICINE. IF OUR GENES ARE, TO A GREAT EXTENT, OUR DESTINY, THEN WHAT WOULD HAPPEN IF MANKIND COULD ENGINEER AND ALTER THE VERY ESSENCE OF OUR DNA CODING? MILLIONS MIGHT BE SPARED THE DEVASTATING EFFECTS OF HEREDITARY DISEASE OR THE CHALLENGES OF DISABILITY, WHETHER IT WAS THE PAIN OF SICKLE-CELL ANEMIA TO THE RAVAGES OF HUNTINGTON'S DISEASE. BUT THIS POWER TO "PLAY GOD" ALSO RAISES MAJOR ETHICAL QUESTIONS AND POSES THREATS FOR POTENTIAL MISUSE. FOR DECADES, THESE QUESTIONS HAVE LIVED EXCLUSIVELY IN THE REALM OF SCIENCE FICTION, BUT AS KEVIN DAVIES POWERFULLY REVEALS IN HIS NEW BOOK, THIS IS ALL ABOUT TO CHANGE. ENGROSSING AND PAGE-TURNING, EDITING HUMANITY TAKES READERS INSIDE THE FASCINATING WORLD OF A NEW GENE EDITING TECHNOLOGY CALLED CRISPR, A HIGH-POWERED GENETIC TOOLKIT THAT ENABLES SCIENTISTS TO NOT ONLY ENGINEER BUT TO EDIT THE DNA OF ANY ORGANISM DOWN TO THE INDIVIDUAL BUILDING BLOCKS OF THE GENETIC CODE. DAVIES INTRODUCES READERS TO ARGUABLY THE MOST PROFOUND SCIENTIFIC BREAKTHROUGH OF OUR TIME. HE TRACKS THE SCIENTISTS ON THE FRONT LINES OF ITS RESEARCH TO THE PATIENTS WHOSE POWERFUL STORIES BRING THE NARRATIVE MOVINGLY TO HUMAN SCALE. THOUGH THE BIRTH OF THE "CRISPR BABIES" IN CHINA MADE INTERNATIONAL NEWS, THERE IS MUCH MORE TO THE STORY OF CRISPR THAN HEADLINES SEEMINGLY RIPPED FROM SCIENCE FICTION. IN EDITING HUMANITY, DAVIES SHEDS LIGHT ON THE IMPLICATIONS THAT THIS NEW TECHNOLOGY CAN HAVE ON OUR EVERYDAY LIVES AND IN THE LIVES OF GENERATIONS TO COME.

PCR PRIMER DESIGN - ANTON YURYEV 2008-02-03

AT THE HEART OF MOST HIGH-THROUGHPUT METHODS IS THE TECHNIQUE OF POLYMERASE CHAIN REACTION (PCR). THIS BOOK FOCUSES ON PRIMER DESIGN, WHICH IS CRITICAL TO BOTH THE EFFICIENCY AND THE ACCURACY OF THE PCR. WITH INTRICATE DESCRIPTIONS OF BASIC APPROACHES AS WELL AS SPECIALIZED METHODS, "PCR PRIMER DESIGN" IS AN EXCEPTIONAL REFERENCE FOR ALL THOSE INVOLVED IN STUDYING THE GENOME.