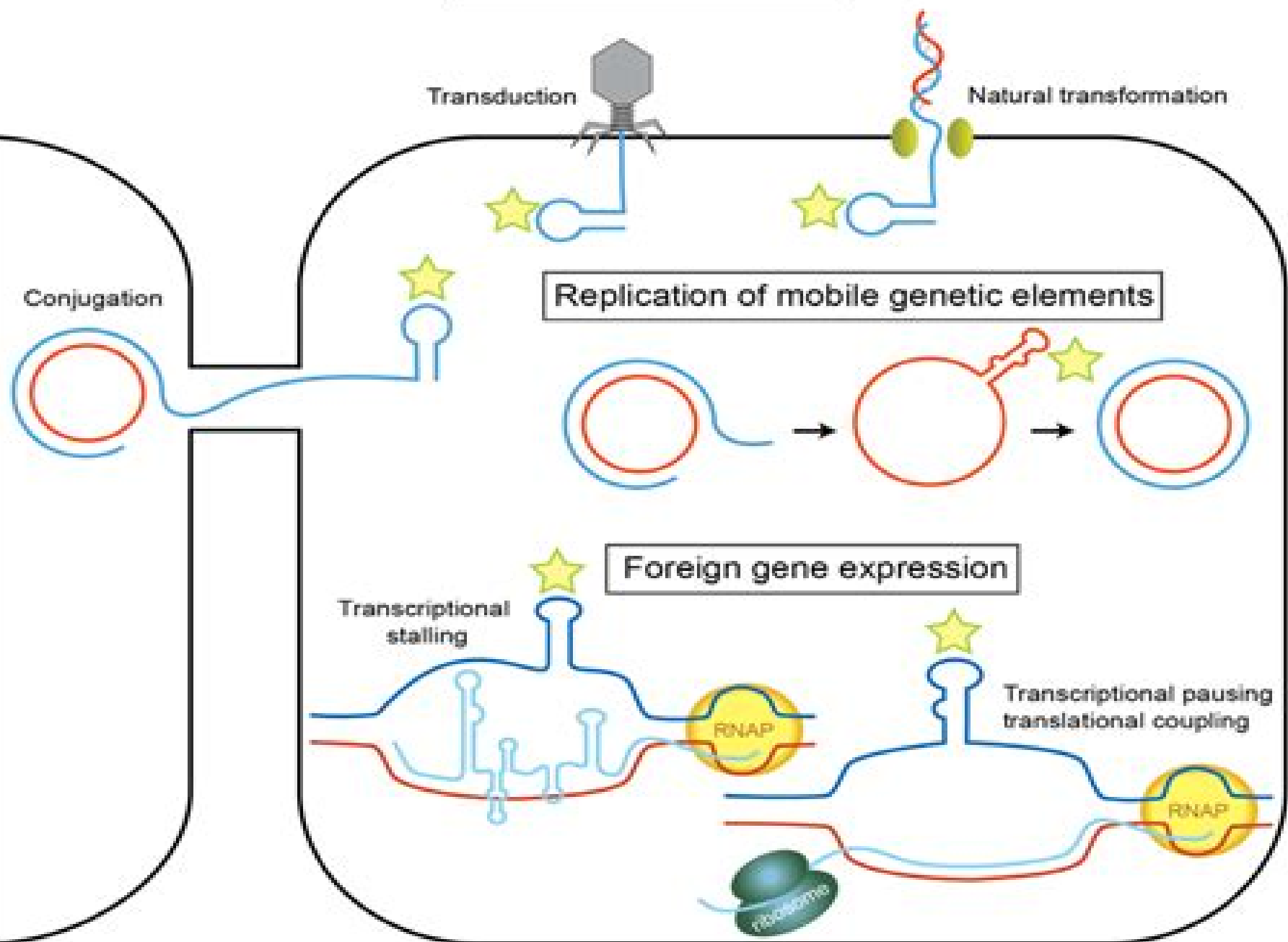


# Horizontal gene transfer



# Mobile Genetic Elements

**Adam P. Roberts, Peter Mullany**



## **Mobile Genetic Elements:**

**Mobile Genetic Elements** James Shapiro, 2012-12-02 Mobile Genetic Elements introduces the nonspecialist to the biology and genetics of mobile elements. It attempts to make the biochemistry of DNA rearrangements more accessible to embryologists and evolutionists and to illuminate the related developmental cycles to the biochemist. The book also shows how natural the activity of mobile elements can be in diverse biological situations. The chapters describe several well studied cases in which genetic determinants often identified as specific nucleic acid sequences repeatedly change their positions within or between cellular genomes. Because their genomic positions are not fixed, these determinants may conveniently be classed together under the rubric of mobile genetic elements. The book begins with a discussion of maize controlling elements. This is followed by separate chapters on the bacteriophages and Mu nonviral mobile elements in bacteria, transposable Ty elements in brewer's yeast, *Drosophila* transposable element and hybrid dysgenesis. Subsequent chapters cover vertebrate retroviruses, *Agrobacterium* oncogenesis in plants, flagellar phase variation in *Salmonella*, yeast mating type and surface antigenic variation in trypanosomes.

**Mobile Genetic Elements** Wolfgang J. Miller, Pierre Capy, 2008-02-05 Leading experts describe in step by step detail their most productive transposon based methods and strategies for studying genome structure, function and evolution. These readily reproducible techniques cover a wide range including mutagenesis, transgenesis, gene silencing and molecular systematics. Among the highlights are a series of DNA hybridization methods for analyzing the distribution and dynamics of mobile DNA at the host's genomic level, techniques for studying LTR retrotransposons in heterologous host systems and mutagenesis protocols for investigating gene functions in a broad range of organisms. These cutting edge methods offer investigators powerful genetic tools for dissecting the function of a specific gene, elaborating on the mechanisms leading to genetic change and diversity and studying the evolutionary impact of mobile DNA on the biology and evolution of organisms.

**Mobile Genetic Elements** Yves Bigot, 2012-02-25 Transposable elements are used as genetic tools for dissecting the function of a specific gene and elaborating on mechanisms leading to genetic change and diversity and the evolutionary impact of mobile DNA on the biology and evolution of organism. In *Mobile Genetic Elements: Protocols and Genomic Applications*, Second Edition, gathers a wide array of strategies and protocols for identifying transposable elements (TEs) and their evolutionary derivatives and for studying genome structure, function and evolution. Written in the highly successful *Methods in Molecular Biology*™ series format, the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory. Through and intuitive *Mobile Genetic Elements: Protocols and Genomic Applications*, Second Edition aids scientists in the continuing study of in silico tools, strategies and protocols that are complementary of those described in the first volume. Bacterial

Integrative Mobile Genetic Elements Adam P. Roberts, Peter Mullany, 2022-03-07 As our understanding of mobile genetic elements continues to grow, we are gaining a deeper appreciation of their importance in shaping the bacterial genome and in

the properties they confer to their bacterial hosts These include but are by no means limited to resistance to antibiotics and heavy metals toxin production and increased virulence production of antibiotics and the ability to utilize a diverse range of metabolic substrates We are also gaining an understanding of diversity of these elements and their interactions with each other a property which continually complicates any attempt to classify them We are learning more about the molecular mechanisms by which they translocate to new genomic sites both within genomes and between different bacteria This book provides a timely state of the art update on the properties of an important selection of different bacterial integrative mobile genetic elements and the myriad of different ways in which they move and influence the biology of the host bacterium The chapters are all written by authors who have undertaken pioneering work in their respective fields making this book vital reading for all who are interested in the biology of bacteria and the mobile elements they carry

**Mobile Genetic Elements in Cellular Differentiation, Genome Stability, and Cancer** Tammy A. Morrish, Jose Luis García

Pérez, 2018-01-16 The human genome as with the genome of most organisms is comprised of various types of mobile genetic element derived repeats Mobile genetic elements that mobilize by an RNA intermediate include both autonomous and non autonomous retrotransposons and mobilize by a copy and paste mechanism that relies on the presence of a functional reverse transcriptase activity The extent to which these different types of elements are actively mobilizing varies among organisms as revealed with the advent of Next Generation DNA sequencing NGS To understand the normal and aberrant mechanisms that impact the mobility of these elements requires a more extensive understanding of how these elements interact with molecular pathways of the cell including DNA repair recombination and chromatin In addition epigenetic based mechanisms can also influence the mobility of these elements likely by transcriptional activation or repression in certain cell types Studies regarding how mobile genetic elements interface and evolve with these pathways will rely on genomic studies from various model organisms In addition the mechanistic details of how these elements are regulated will continue to be elucidated with the use of genetic biochemical molecular cellular and bioinformatic approaches Remarkably the current understanding regarding the biology of these elements in the human genome suggests these elements may impact developmental biology including cellular differentiation neuronal development and immune function Thus aberrant changes in these molecular pathways may also impact disease including neuronal degeneration autoimmunity and cancer

**Mobile DNA** Haig H. Kazazian, 2011-03-18 This book thoroughly reviews our current scientific understanding of the significant role that mobile genetic elements play in the evolution and function of genomes and organisms from plants and animals to humans Highly regarded geneticist Haig Kazazian offers an accessible intellectual history of the field s research strategies and concerns explaining how advances opened up new questions and how new tools and capabilities have encouraged progress in the field Kazazian introduces the key strategies and approaches taken in leading laboratories including his own to gain greater insight into the large proportion of our genome that derives from mobile genetic elements including viruses plasmids and

transposons He also presents intriguing insights into long term research strategies that may lead to an even deeper understanding

*Mobile Genetic Elements* Matthew George Durrant, 2020 Mobile genetic elements MGEs are genetic material that can mobilize and move either within a single organism's genome or between the genomes of different organisms An integrative mobile genetic element is one that can merge its genetic material with other genetic molecules to form a single genetic molecule either DNA or RNA Thanks to the work of pioneering scientists such as Nobel Laureate Barbara McClintock our knowledge of how MGEs work and how they influence evolution has exploded and continues to grow to this day MGEs and the enzymes that enable their mobilization transposases recombinases integrases resolvases invertases etc have been adapted as useful experimental and therapeutic tools But there is still much to be learned about MGEs and in the age of next generation sequencing we have more tools than ever before to interrogate their function In chapter 2 this dissertation introduces software that analyzes next generation sequencing data to identify integrative mobile genetic elements and to genotype the precise genomic location of their insertion with respect to a reference genome This bioinformatics tool called MGEfinder is applied in an analysis of thousands of publicly available bacterial genomes and this analysis sheds light on how MGEs allow bacteria to adapt develop antibiotic resistance and become more virulent and dangerous to their human hosts In chapter 3 this tool and others are then adapted and used as a part of a genomic data mining pipeline to identify novel genetic elements and enzymes that have promise as genome engineering tools Thousands of these site specific integrases also described as recombinases were identified and stored in a database and they were curated and prioritized to identify those that hold promise as human genome editing tools specifically Early validation experiments are promising In addition to studies that focus on this main theme of mobile genetic elements this dissertation introduces additional works related to the identification of small open reading frames smORFs in microbial genomes chapter 4 and the transcriptomic and epigenomic response of a colorectal cancer cell line to the microbial metabolite butyrate chapter 5 Together these chapters demonstrate the importance of developing and applying tools to the study of mobile genetic elements more broadly indicating the great scientific and therapeutic potential of these ubiquitous genetic elements

Mobile Genetic Elements in Metazoan Parasites Paul J. Brindley, 2009-10-28 Substantial proportions of the genome of most eukaryotes including those of metazoan parasites are comprised of repetitive sequences Mobile genetic elements MGEs constitute much of the repetitive component particularly the interspersed sequences This volume of nine chapters addresses MGEs that have colonized the genomes of medically important metazoan parasites and their vectors These MGEs are parasites of parasites These mobile elements are compared and contrasted with those from better studied model organisms The authors have included plentiful relevant and informative illustrations and references Several chapters focus on mobile elements of the human schistosomes Gerardo Ferbeyre focuses on the putative ribozyme activities on the SM alpha elements SINE like elements including trans reactions catalyzed by these retrotransposons Ricardo DeMarco and Sergio Verjovski Almeida

review the cut and paste transposons of schistosomes including the Merlin and the SmTRC1 elements and application of schistosome DNA transposons to transgenesis and mutagenesis Claudia Copeland Thewarach Laha and I review the retrovirus like retrotransposons and non long terminal repeat transposable elements of the schistosomes including the Boudicca fugitive and SR2 elements Young An Bae and Yoon Kong provide descriptions of retrotransposons from the human liver and lung flukes *Clonorchis sinensis* and *Paragonimus westermani* respectively including the CsRn1 long terminal repeat retrotransposon Continuing the investigations of MGEs of parasitic worms Thewarach Laha Alex Loukas and I summarize current knowledge of MGEs from hookworms including details of the bandit and Transib transposons and dingo retrotransposons Mobile elements in vectors of human parasites are also covered Matty Knight and coauthors describe the nimbus retrotransposon and its discovery and other repetitive elements from the genome of the gastropod snail *Biomphalaria glabrata* the intermediate host of *Schistosoma mansoni* Zhijian Tu and Song Ti review MGEs of *Anopheles* mosquitoes vectors of malaria and other mosquitoes They discuss practical uses of these MGEs Craig Coates provides an expert article on transposon mediated transgenesis of mosquitoes in particular dealing with his pioneering studies on the deployment of binary systems with the Mos1 mariner transposon MGEs from the genomes of these metazoan parasites have practical uses in transgenesis and epidemiological studies and also are valuable for annotation of the genomes of these vectors and pathogens These issues and future directions are well covered in these chapters

Mobile Genetic Elements in Metazoan Parasites, 2009 Substantial proportions of the genome of most eukaryotes including those of metazoan parasites are comprised of repetitive sequences Mobile genetic elements MGEs constitute much of the repetitive component particularly the interspersed sequences This volume of nine chapters addresses MGEs that have colonized the genomes of medically important metazoan parasites and their vectors These MGEs are parasites of parasites These mobile elements are compared and contrasted with those from better studied model organisms The authors have included plentiful relevant and informative illustrations

**Genetics and Biotechnology** Karl Esser, Ulrich Kück, 2004-01-22 Keywords Fungi biotechnology fungal molecular biology molecular genetics mycology yeast

Modern Genetic Analysis Anthony J.F. Griffiths, 2002-02-22 Modern Genetic Analysis Second Edition the second introductory genetics textbook W H Freeman has published by the Griffiths author team implements an innovative approach to teaching genetics Rather than presenting material in historical order Modern Genetic Analysis Second Edition integrates molecular genetics with classical genetics The integrated approach provides students with a concrete foundation in molecules while simultaneously building an understanding of the more abstract elements of transmission genetics Modern Genetic Analysis Second Edition also incorporates new pedagogy improved chapter organization enhanced art and an appealing overall design

*Transgenic Organisms* J. Tomiuk, K. Wöhrmann, A. Sentker, 2012-12-06 This selected collection of contributions focuses on the modification of organisms through genetic manipulation Scientists from various disciplines assess the quality of our knowledge on which risk assessment of

gene technology methods is currently based Molecular biology and ecology but also aspects of evolutionary and population genetics human genetics and genetically modified food are among the topics covered The book analyzes the impetus behind and progress in research methods which have been introduced into gene technology risk assessment procedures over the last three years and in so doing reveals gaps in our understanding of evolutionary processes The history of risk assessment and ethical implications with respect to the deliberate release of GMOs are considered Finally the transfer of knowledge from the laboratory to the public and the role of the media in this process are discussed This monograph will be of great interest to all those concerned with the risk assessment of genetechnology methods      Computational Methods for Understanding

Bacterial and Archaeal Genomes Ying Xu,2008 Over 500 prokaryotic genomes have been sequenced to date and thousands more have been planned for the next few years While these genomic sequence data provide unprecedented opportunities for biologists to study the world of prokaryotes they also raise extremely challenging issues such as how to decode the rich information encoded in these genomes This comprehensive volume includes a collection of cohesively written chapters on prokaryotic genomes their organization and evolution the information they encode and the computational approaches needed to derive such information A comparative view of bacterial and archaeal genomes and how information is encoded differently in them is also presented Combining theoretical discussions and computational techniques the book serves as a valuable introductory textbook for graduate level microbial genomics and informatics courses      Role of Mobile Genetic Elements in the Global Network of Bacterial Horizontal Gene Transfer Mislav Acman,2022 Many bacteria can exchange genetic material through horizontal gene transfer HGT mediated by plasmids and plasmid borne transposable elements One grave consequence of this exchange is the rapid spread of antibiotic resistance determinants among bacterial communities across the world In this thesis I make use of large datasets of publicly available bacterial genomes and various analytical approaches to improve our understanding of the nature and the impact of HGT at a global scale In the first part I study the population structure and dynamics of over 10 000 bacterial plasmids By reconstructing and analysing a network of plasmids based on their shared k mer content I was able to sort them into biologically meaningful clusters This network based analysis allowed me to make further inferences into global network of HGT and opened up prospect for a natural and exhaustive classification framework of bacterial plasmids The second part focuses on global spreading of blaNDM an important antibiotic resistance gene To this end I compiled a dataset of over 6000 bacterial genomes harbouring this element and developed a novel computational approach to track structural variants surrounding blaNDM across bacterial genomes This facilitated identification of prevalent genomic contexts of blaNDM and reconstruction of key mobile genetic elements and events which led to its global dissemination Taken together my results highlight transposable elements as the main drivers of HGT at broad phylogenetic and geographical scales with plasmid exchange being much more spatially restricted due to the adaptation to specific bacterial hosts and evolutionary pressures      **The Comprehensive Sourcebook of Bacterial**

**Protein Toxins** Joseph E. Alouf, Daniel Ladant, Michel R. Popoff, 2015-05-29 The Comprehensive Sourcebook of Bacterial Protein Toxins Fourth Edition contains chapters written by internationally known and well respected specialists This book contains chapters devoted to individual toxins as well as chapters that consider the different applications of these toxins Considerable progress has been made in understanding the structure function interaction and trafficking into cells as well as mechanism of action of toxins Bacterial toxins are involved in the pathogenesis of many bacteria some of which are responsible for severe diseases in human and animals but can also be used as tools in cell biology to dissect cellular processes or used as therapeutic agents Novel recombinant toxins are already proposed in the treatment of some diseases as well as new vaccines Alternatively certain toxins are also considered as biological weapons or bioterrorism threats Given the multifaceted aspects of toxin research and the multidisciplinary approaches adopted toxins are of great interest in many scientific areas from microbiology virology cell biology to biochemistry and protein structure This new edition is written with a multidisciplinary audience in mind and contains 5 new chapters that reflect the latest research in this area Other chapters have been combined deleted and fully revised as necessary to deliver relevant and valuable content Descriptions of relevant toxins as well as representative toxins of the main bacterial toxin families to allow for a better comparison between them Focused chapters on toxin applications and common properties or general features of toxins

**From Chromosomes to Mobile Genetic Elements** Lee B. Kass, 2024 This biography of Nobel Laureate Barbara McClintock 1902 1992 places her life and work in its social scientific and personal context The author examines the development of Barbara McClintock s scientific work and her influence upon individuals and upon the fields of cytogenetics and evolutionary biology in the period from 1902 to the present The history documents years of McClintock s notable and lauded scientific work long before she discovered Transposable Elements in the mid 1940s for which she ultimately received the Nobel Prize The biography employs documented evidence to expose demystify and provide clarity for legends and misinterpretations of McClintock s life and work

**Reticulate Evolution** Nathalie Gontier, 2015-07-09 Written for non experts this volume introduces the mechanisms that underlie reticulate evolution Chapters are either accompanied with glossaries that explain new terminology or timelines that position pioneering scholars and their major discoveries in their historical contexts The contributing authors outline the history and original context of discovery of symbiosis symbiogenesis lateral gene transfer hybridization or divergence with gene flow and infectious heredity By applying key insights from the areas of molecular phylo genetics microbiology virology ecology systematics immunology epidemiology and computational science they demonstrate how reticulate evolution impacts successful survival fitness and speciation Reticulate evolution brings forth a challenge to the standard Neo Darwinian framework which defines life as the outcome of bifurcation and ramification patterns brought forth by the vertical mechanism of natural selection Reticulate evolution puts forward a pattern in the tree of life that is characterized by horizontal mergings and lineage crossings induced by symbiosis symbiogenesis lateral gene transfer hybridization or



divergence with gene flow and infective heredity making the tree of life look more like a web of life On an epistemological level the various means by which hereditary material can be transferred horizontally challenges our classic notions of units and levels of evolution fitness modes of transmission linearity communities and biological individuality The case studies presented examine topics including the origin of the eukaryotic cell and its organelles through symbiogenesis the origin of algae through primary and secondary symbiosis and dinoflagellates through tertiary symbiosis the superorganism and holobiont as units of evolution how endosymbiosis induces speciation in multicellular life forms transferrable and non transferrable plasmids and how they symbiotically interact with their host the means by which pro and eukaryotic organisms transfer genes laterally bacterial transformation transduction and conjugation as well as transposons and other mobile genetic elements hybridization and divergence with gene flow in sexually reproducing individuals current human microbiome and virome studies that impact our knowledge concerning the evolution of organismal health and acquired immunity and how symbiosis and symbiogenesis can be modelled in computational evolution

**The Social Management of Genetic Engineering** Peter Wheale, René von Schomberg, 2019-05-23 First published in 1998 this volume why and how genetic engineering has emerged as the technology most likely to change our lives for better or worse in the opening century of the third millennium Over twenty international experts including moral philosophers and social scientists describe the issues and controversies surrounding modern biotechnology and genetic engineering They explore ways in which lay individuals and groups can join in an effective and constructive dialogue with scientists and industrialists over the assessment exploitation and safe management of these new and important technologies Topics covered include a discussion of the issues surrounding Dolly the cloned sheep the politics and ethics of the international research programme to sequence the entire human genome the ethical questions raised by the creation of transgenic farm animals the morality of genetic experimentation on animals the controversy surrounding the patenting of genetic material and of the transgenic animals themselves the ethical implications of engineering animals for transplanting their organs into humans and the environmental hazards of releasing genetically engineered organisms

*The Impact of Gene Transfer Techniques in Eucaryotic Cell Biology* J. S. Schell, P. Starlinger, 2012-12-06 The 35th N osbach Colloquium The Impact of Gene Transfer Techniques in Eukaryotic CeU Biology brought together a number of speakers interested in various aspects of cellular and developmental biology and over 600 other scientists who listened to the lectures and participated in the lively discussions The questions and experiments described were very varied but all of them illustrated the importance of recombinant DNA technology The powerful techniques of identifying and isolating DNA sequences followed by their introduction into living cells and even into the germ cells of multicellular organisms have pervaded nearly every branch of molecular biology The presentations and discussions that followed showed that recombinant DNA has tremendously increased our potential for fundamental research Now and for some time to come these contributions and the resulting increase in our understanding of life will be the main result of gene

manipulation There will however also be applications that will lead to new industrial processes One section was devoted to novel ways of vaccine production and another to herbicide resistance These applications are a matter of intense debate in the public domain today Although they reach beyond the scope of the research laboratory at a university or research institution scientists have the knowledge necessary to judge these developments and are sometimes directly involved Therefore the development of industrial gene technology requires the attention of the whole scientific community We hope that this Symposium has also served this purpose

*The Universe of Escherichia coli* Marjanca Starčič Erjavec, 2019-09-18 The title of the book *The Universe of Escherichia coli* aims to present and emphasize the huge diversity of this bacterial species and our efforts to prevent the *E coli* infections As it is part of the gut microbiota *E coli* is a well known commensal species and probiotic *E coli* strains are successfully used for improving host's health Also many workhorse *E coli* strain exist that are employed in laboratory and biotechnology settings But certain *E coli* strains can cause intestinal and also extraintestinal infections at many anatomical sites Therefore many efforts are undertaken to prevent *E coli* infections among them food safety vaccines but also new antimicrobial agents are searched for

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