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Recombinant DNA: Genes and genomes—A short course (3rd ed.) Brian White. E-mail address: brian.white@umb.edu.

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molecular genetics, recombinant DNA technology has its roots in bacterial genetics. For instance, insertion of a restriction fragment in the Bam HI site of the TcR gene inactivates that gene. This origin allows a fairly high copy number, Recombinant DNA: Genes and Genomes copies of the plasmid per cell. Myers; Amy A. Genomics Recombinant DNA: Genes and Genomes genetic analysis of entire

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Recombinant DNA: Genes And Genomes

Recombinant DNA - Recombinant DNA - Genomics: The genetic analysis of entire genomes is called genomics. Such a broadscale analysis has been made possible by the development of recombinant DNA technology. In humans, knowledge of the entire genome sequence has facilitated searching for genes that produce hereditary diseases.

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With the discovery of DNA as a gene material, humans are also working to obtain a combination of new traits of a living being by making direct changes to the DNA of the genome.

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The coverage of recombinant DNA centres largely on key experiments, with sections focusing on new developments in cloning, mutagenesis, and genetic engineering, plus the

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contribution of recombinant DNA technology to our understanding of gene function, biological processes and human genetics.

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PFGE however allows us to resolve far large, 'genome scale' pieces of DNA (greater than 20 kilobases in size). PFGE is still an important technique used to estimate the size of microbial genomes and in epidemiology studies. You can learn more about similar, basic genomics techniques on the 'Recombinant DNA and genetic techniques' page. DNA ...

Microbial genomes — University of Leicester

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