

Animal Cell Biotechnology

The branch of biology which makes use of living organisms to create new products is termed as biotechnology. The application of biotechnology for studying animal cells and cell culture is termed as animal cell biotechnology. Some of the key areas of study under this field are sequencing of animal genomes, recombinant DNA technology, identification of genes, regulation of genes, molecular markers and diagnostics. The animals which are genetically altered to have specific characteristics are known as transgenic animals. They are produced using a variety of techniques such as nuclear transfer, DNA microinjection, sperm mediated gene transfer and artificial chromosomes. Animal cell biotechnology finds application across various fields such as food production, organ transplant, pharmaceuticals, animal forensics and animal breeding. Animal cell biotechnology is an upcoming field of science that has undergone rapid development over the past few decades. Most of the topics introduced herein cover new techniques and the applications of animal cell biotechnology. Those in search of information to further their knowledge will be greatly assisted by this book.

Harry Johnson received his PhD in Biotechnology from Rutgers University, Camden, U.S.A. His primary areas of scholarly and research interests lie in the fields of gel electrophoresis, animal cell manipulation for disease resistance, and gene therapy. He currently serves as an associate lecturer in the Department of Biology and has also been presented the "Teacher of the Year" award. Johnson has authored and edited numerous articles, journal papers and book chapters, which have been published worldwide.

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