

## Principles of Medical Biotechnology: Medical and Animal Biotechnology



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This Edition having the title PRINCIPLES of MEDICAL BIOTECHNOLOGY is a scientific book containing recent advances that are ongoing in certain medical and animal biotechnological applications. Ten chapters related to the newest biotechnological achievements in methods used to manipulate genes, medicine, health care; biopharmaceutical producing and transgenesis are presented in this book.

As well as “Gene therapy and Cancer treatment are included; Gene therapy is a novel therapeutic branch of modern medicine. Its emergence is a direct consequence of the revolution heralded by the introduction of recombinant DNA methodology in the 1970s. Gene therapy is still highly experimental, but has the potential to become an important treatment regimen. In principle, it allows the transfer of genetic information into patient tissues and organs.

Also, the book deals with “Animal biotechnology”. Animal biotechnology is a branch of biotechnology in which molecular biology techniques are used to genetically engineer (i.e. modify the genome) of animals in order to improve their suitability for pharmaceutical, agricultural or industrial applications. Animal biotechnology has been used to produce genetically modified animals that synthesize therapeutic proteins, have improved growth rates or are resistant to disease. So, just like other assisted reproduction techniques such as artificial insemination, embryo transfer and in vitro fertilization, livestock cloning improves animal breeding programs allowing farmers and ranchers to produce healthier offspring, and therefore produce healthier, safer and higher quality foods more consistently.

I hope that this book will help the reader to make sense of the topics and act as a support for studying the content. From the educational point of view, this should help the reader simply to understand the concept of medical biotechnology and to cope with more advanced information about this subject.