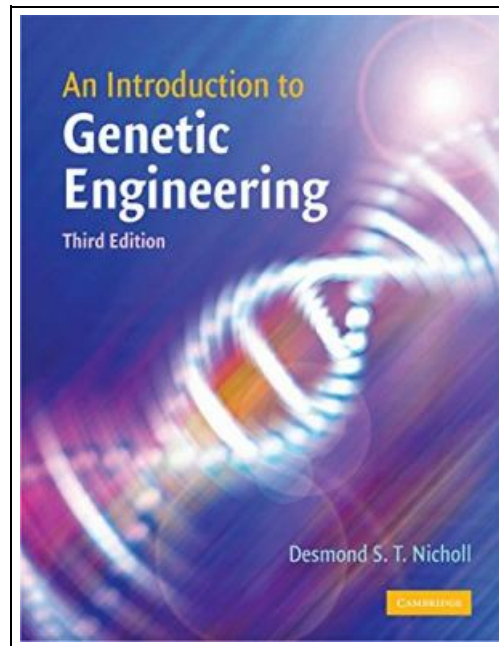# An Introduction to Genetic Engineering

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# AN INTRODUCTION TO GENETIC ENGINEERING



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Cambridge University Press, 2010. Softcover. Condition: New. 3rd edition. In this third edition of his popular undergraduate-level textbook, Des Nicholl recognises that a sound grasp of basic principles is vital in any introduction to genetic engineering. Therefore, the book retains its focus on the fundamental principles used in gene manipulation. It is divided into three sections: Part I provides an introduction to the relevant basic molecular biology; Part II, the methods used to manipulate genes; and Part III, applications of the technology. There is a new chapter devoted to the emerging importance of bioinformatics as a distinct discipline. Other additional features include text boxes, which highlight important aspects of topics discussed, and chapter summaries, which include aims and learning outcomes. These, along with key word listings, concept maps and a glossary, will enable students to tailor their study to suit their own learning styles and ultimately gain a firm grasp of a subject that students traditionally find difficult. Contents 1. Introduction Part I. The Basis of Genetic Engineering: 2. Introducing molecular biology 3. Working with nucleic acids 4. The tools of the trade Part II. The Methodology of Gene Manipulation: 5. Host cells and vectors 6. Cloning strategies 7. The polymerase chain reaction 8. Selection, screening and analysis of recombinants 9. Bioinformatics Part III. Genetic Engineering in Action: 10. Understanding genes, genomes and ?otheromes? 11. Genetic engineering and biotechnology 12. Medical and forensic applications of gene manipulation 13. Transgenic plants and animals 14. The other sort of cloning 15. Brave new world or genetic nightmare? Printed Pages: 348.

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