

Preface

Cell engineering is a cutting-edge biotechnology that covers a very wide range in modern biological engineering and plays an increasingly important role in biology, agriculture, medicine & pharmacy, food science, aquaculture, environmental protection etc. Therefore, cell engineering forms an important and part of the core curriculum for bioengineering, biotechnology and other majors at the college and university levels.

The first edition of *Cell Engineering*, published by the Science Press, China, in 2003, has been selected by a number of colleges and universities as a textbook or a reference book for teaching undergraduates or for graduates who prepare for postgraduate entrance examination or reexamination. The second edition was selected as a national teaching material for Chinese higher education in the 11th Five-Year Plan. The second edition of the book, still with the cell engineering technology as the main thread, comprises three parts: fundamentals of cell engineering, plant cell engineering, and animal cell engineering. While importance has been attached to comprehensiveness and systematicness, every effort has been made to render the language and contents as succinct as possible. In addition, an emphasis has also been put on extracurricular extended learning, so each chapter is followed by materials for self-learning by students and also for selective use by teachers in class. We welcome all suggestions and criticism from teachers, experts and students, for improvement of the book during its subsequent edition.

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