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thoroughly updated for currency and with exciting new practical examples throughout this popular text provides the tools practice and basic knowledge for success in the biotech workforce with its balanced coverage of basic cell and molecular biology fundamental techniques historical accounts new advances and hands on applications the third edition emphasizes the future of biotechnology and the biotechnology student s role in that future two new features forecasting the future and making a difference along with several returning hallmark features support the new focus

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traces the history of plant biotechnology up to its current controversies and practices

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this book analyses the conflict over the release of transgenic soybean in brazil based on a narrative analysis of political conflict at the end of the 1990s the commercial release of roundup ready rr soybean triggered a heated debate over the introduction of genetically modified organisms gmos in brazilian agriculture which developed into an open political conflict opposing pro and anti gmos groups in brazilian society this volume examines some of the structuring axes of this conflict by applying a narrative analysis of political conflict in this approach politics is perceived as a process of interpretive conflict in which participants in the political game seek to establish the lines that delimit the very definition of public

issues under debate the issue of gmos is understood from this perspective as a public controversy whose dynamics are shaped by the discourses that emerge from the dispute itself to analyze these controversies the book focuses on three axes of narrative analyses the conflict over distributives issues associated with the commercial release of rr soy the conflict over scientific uncertainty associated with the environmental risks of gmos and the conflict over labeling policies transgenics in dispute political conflicts in the commercial liberation of gmos in brazil will be of interest to both social and environmental scientists concerned with the risks produced by the newest technologies that mediate our relationship with the environment and with the public debate that their use tends to provoke this book is a translation of the original portuguese edition *transgênicos em disputa os conflitos políticos na liberação comercial dos ogms no brasil* by cristiano luis lenzi published in brazil by appris editora in 2020 the translation was done with the help of artificial intelligence machine translation by the service deepl com the author has subsequently revised the text further in an endeavour to refine the work stylistically springer nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors

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this short volume will enable students and lay people to understand the basics of one of the most important scientific fields of endeavor for the future

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volume 1 general introduction to molecular sciences volume 2 physical aspects of molecular systems volume 3 electronic structure and chemical reactivity volume 4 molecular phenomena in biological sciences

this handbook comprehensively reviews different nanomaterials and modern electrochemical approaches used in the point of care analysis of biomolecules it describes the importance significance and application of various kinds of smart nanomaterials and their integration with modern electrochemical techniques for the point of care diagnosis of biologically important biomolecules the interaction between bio systems and nanomaterials have been discussed in this book using advanced electrochemical methods and characterizing techniques it describes the combination of classical and modern methodologies for the synthesis of metal nanoparticles nanoclusters and modern electrochemical techniques for the early stage detection and point of care diagnosis of cancer and other infectious disease such as sars influenza tuberculosis tb and hepatitis finally the book provides an accessible and readable summary of the use of nanomaterial for understanding the electrochemical reaction taking place at nano bio interfaces in electrochemical biomolecular detection and analysis the book bridges the gap and strengthens the relationship between electrochemists material scientists and biomolecular scientists who are directly or indirectly associated with the field of such point of care diagnostics

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