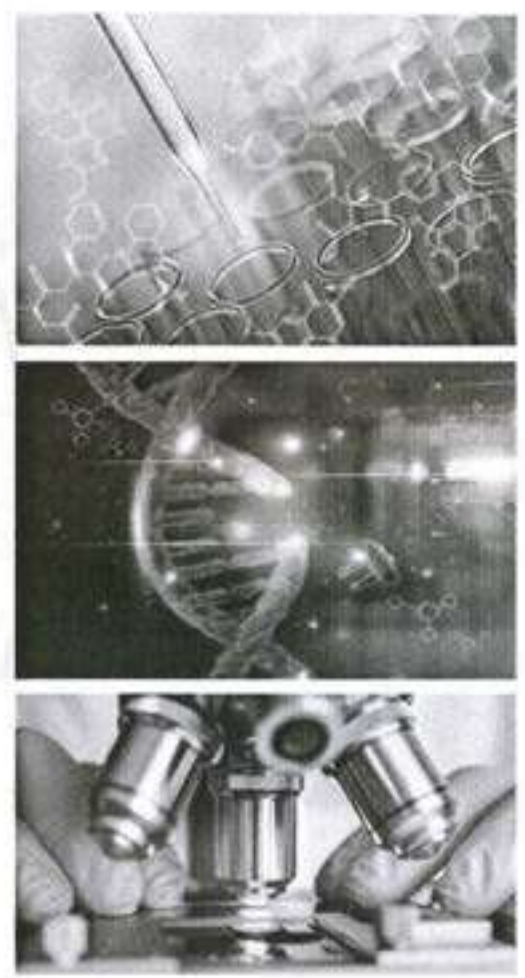
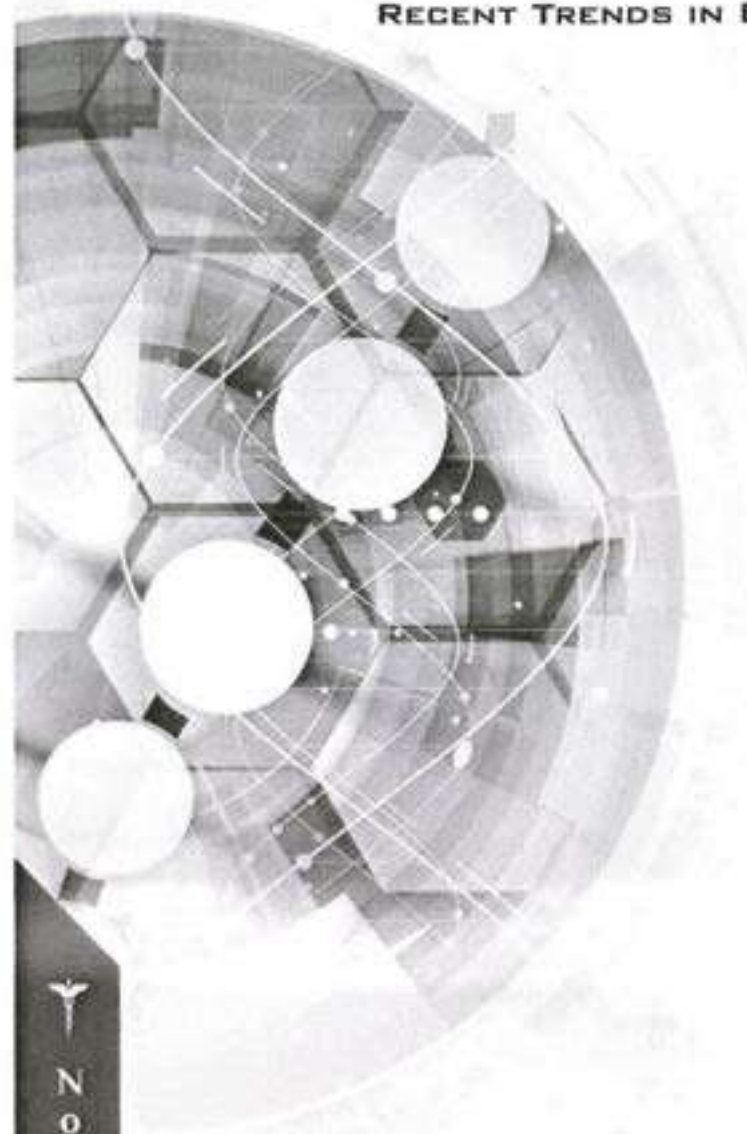


RECENT TRENDS IN BIOTECHNOLOGY



Nova
Medicine & Health

Fundamentals of Medical Biotechnology

Rajneesh Prajapat • M. Kasturi
B. Manivannan • Anita Mishra
Editors

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Library of Congress Cataloging-in-Publication Data

ISBN: 978-1-53619-393-0

Published by Nova Science Publishers, Inc. † New York

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Chapter 10

**MEDICAL BIOTECHNOLOGY TECHNIQUES
AND BIOMEDICAL WASTE MANAGEMENT**

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ABSTRACT

Medical biotechnology has lead to the development of various techniques for preventing, diagnosing, and treating diseases. Some of the novel practices include electrophoresis (e.g., agarose gel electrophoresis, SDS-PAGE, immune-electrophoresis), isoelectric focusing (IEF), two-dimensional (2D) gel electrophoresis, enzyme-linked immunosorbent assay (ELISA), mass spectrometry (MS), polymerase chain reaction (PCR), and many other techniques, e.g., gene sequencing, fluorescence *in situ* hybridization (FISH), gene microarray, animal cell culture, genome editing etc. These techniques: genome sequencing, use of stem cell

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