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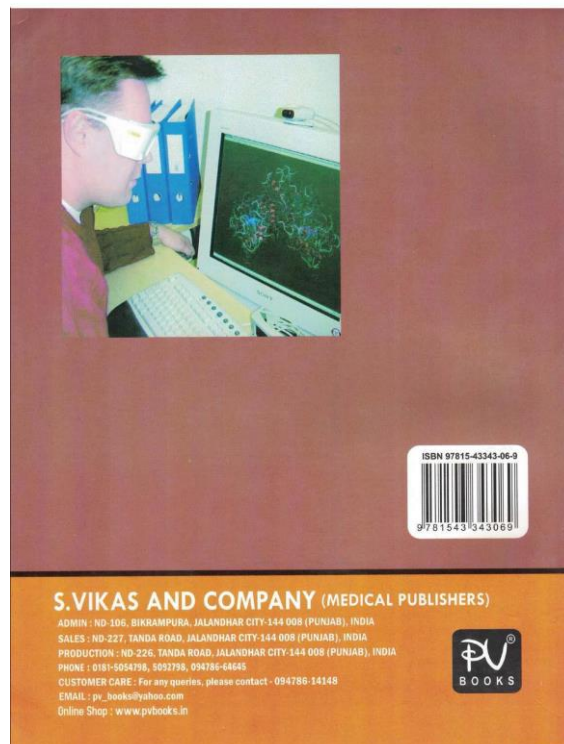
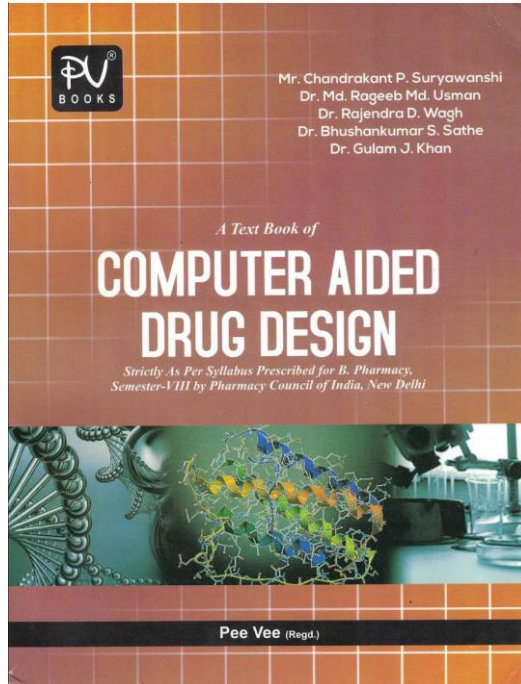
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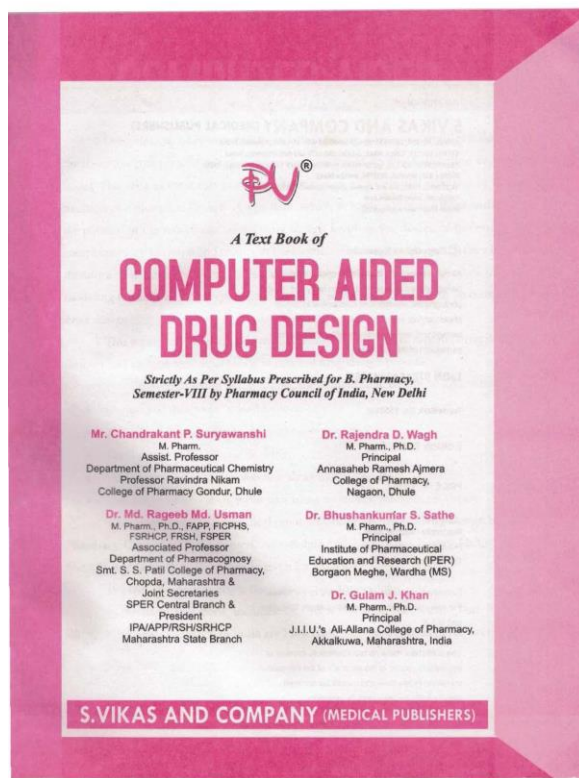
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1 INTRODUCTION OF DRUG DISCOVERY AND DEVELOPMENT

1. INTRODUCTION

Drug discovery is a process, which aims at identifying a compound therapeutically useful in treating and curing a disease. Typically a drug discovery effort addresses a biological target that has been shown to play a role in the development of the disease or starts from a molecule with interesting biological activities.

The process of drug discovery involves the identification of candidates, synthesis, characterization, screening, and assays for therapeutic efficacy. Once a compound has shown its value in these tests, it will begin the process of drug development prior to clinical trials. Drug discovery and development is an expensive process due to the high costs of R&D and human clinical tests. The average total cost per drug development varies from US\$ 897 million to US\$ 1.9 billion. The typical development time is 10-15 years. The developing world suffers the major burden of infectious disease, yet the range of drugs available for the treatment of many infectious diseases is limited. In the past most drugs have been discovered either by identifying the active ingredient from traditional remedies or by serendipitous discovery. At present a new approach is being tried to understand how disease and infection are controlled at the molecular and physiological level and to target specific entities based on this knowledge.

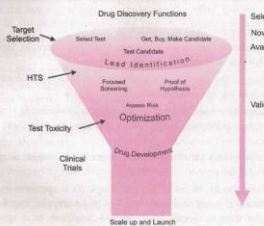


Figure 11: Milestones of Drug Discovery



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As Per PCI Regulations
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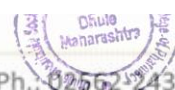
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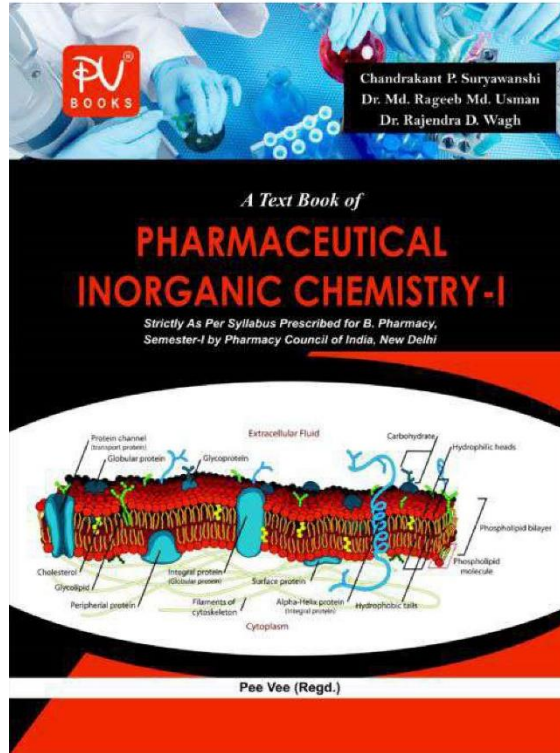
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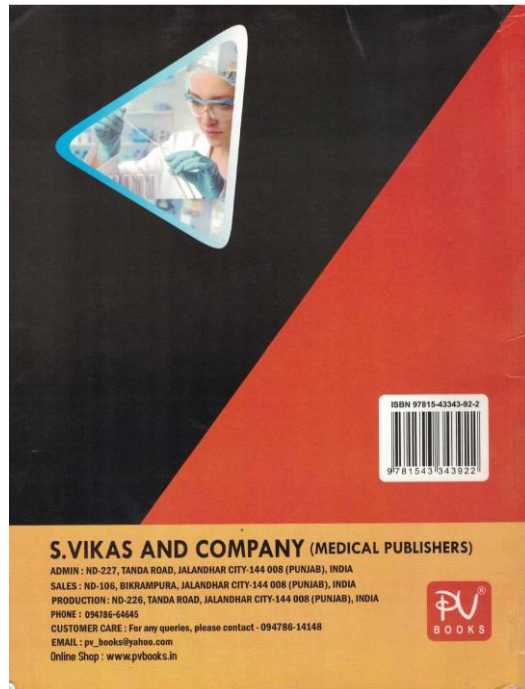
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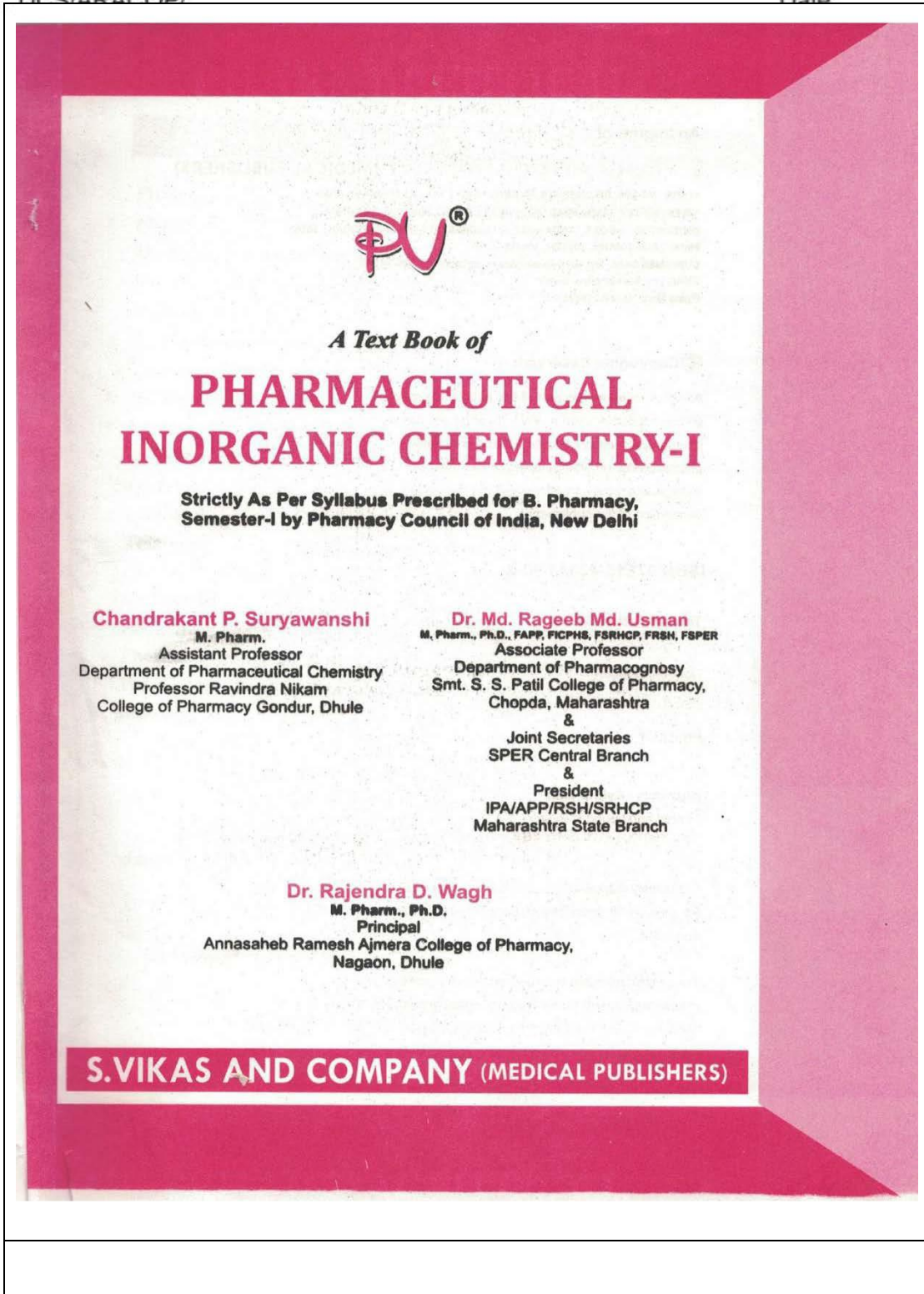
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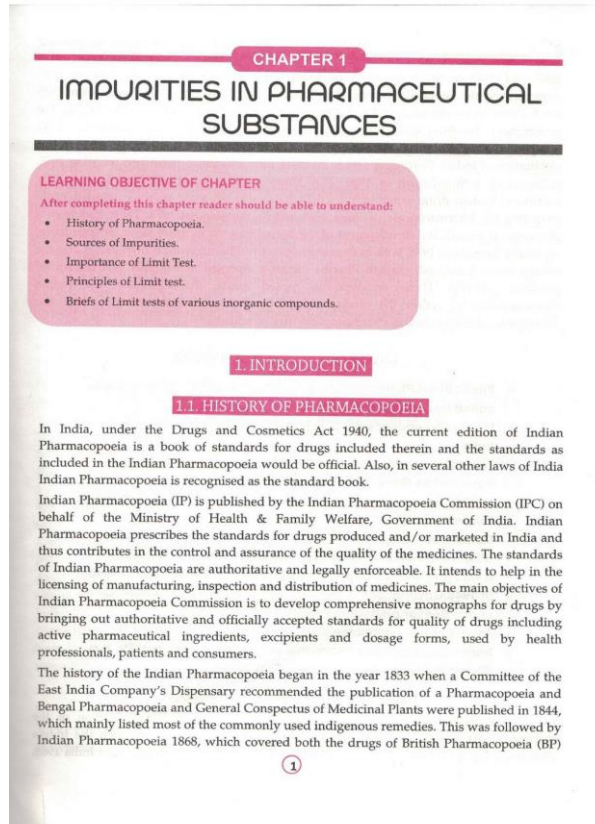
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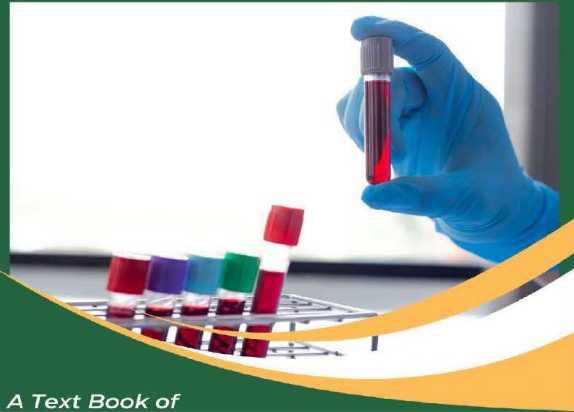


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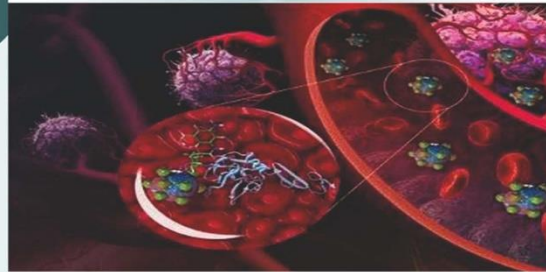
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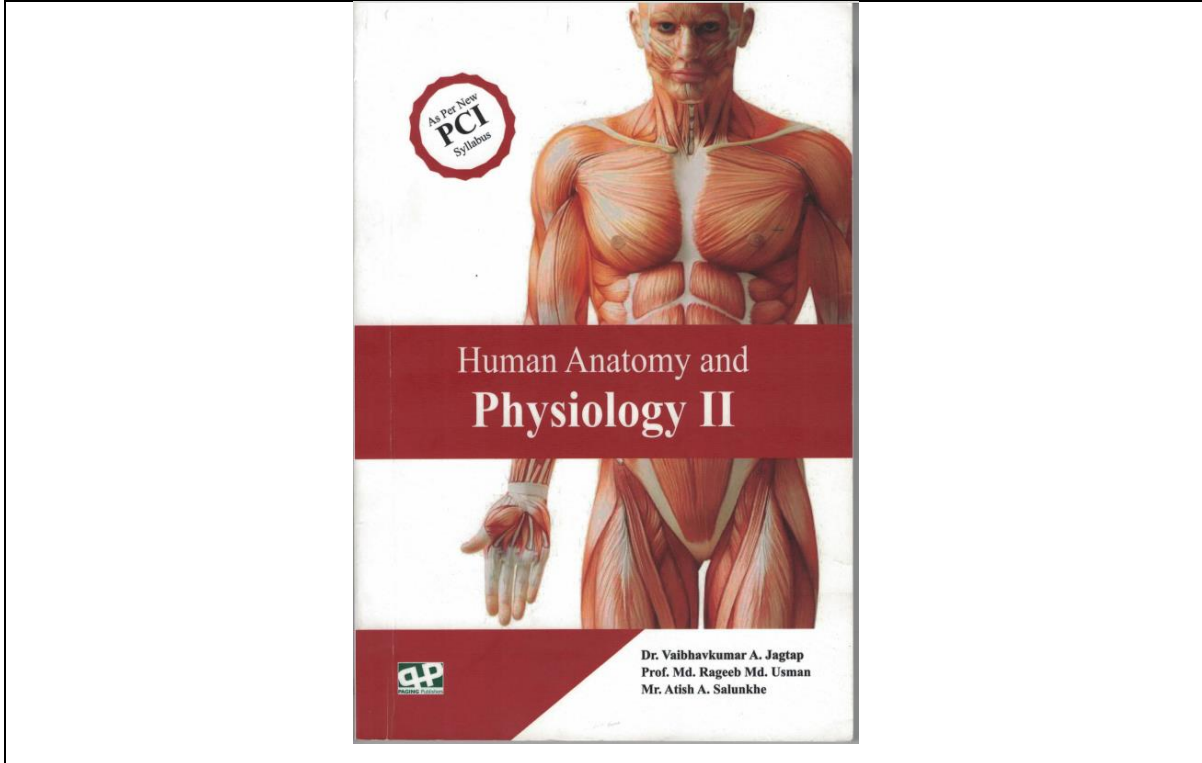
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About the Book

The Aim of writing this book is to make available a qualitative book on the subject "Human Anatomy and Physiology-II" for the student including pharmacist, nurses, physiotherapist and medical sciences. The book content Syllabus, Basic scheme for Examination with Six Chapters according to PCI New Syllabus, including Nervous System, Digestive System, Respiratory System, Urinary System, Endocrine System and Reproductive System and after each chapter practice Questions are their. I hope students will appreciate this book as resource for appropriate subject knowledge.

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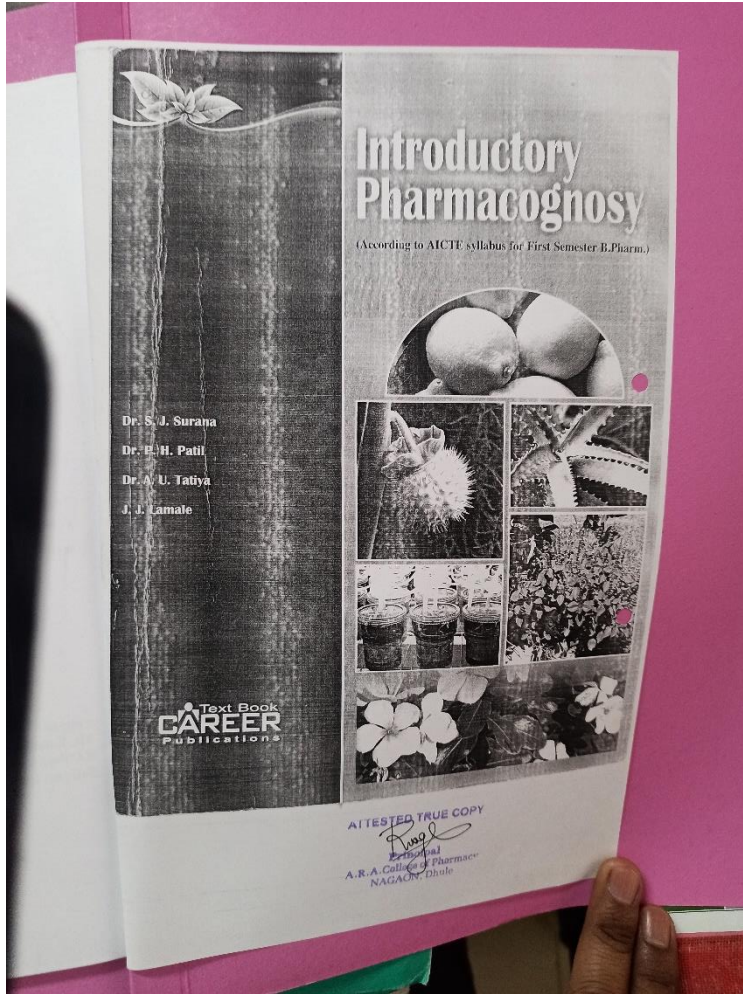
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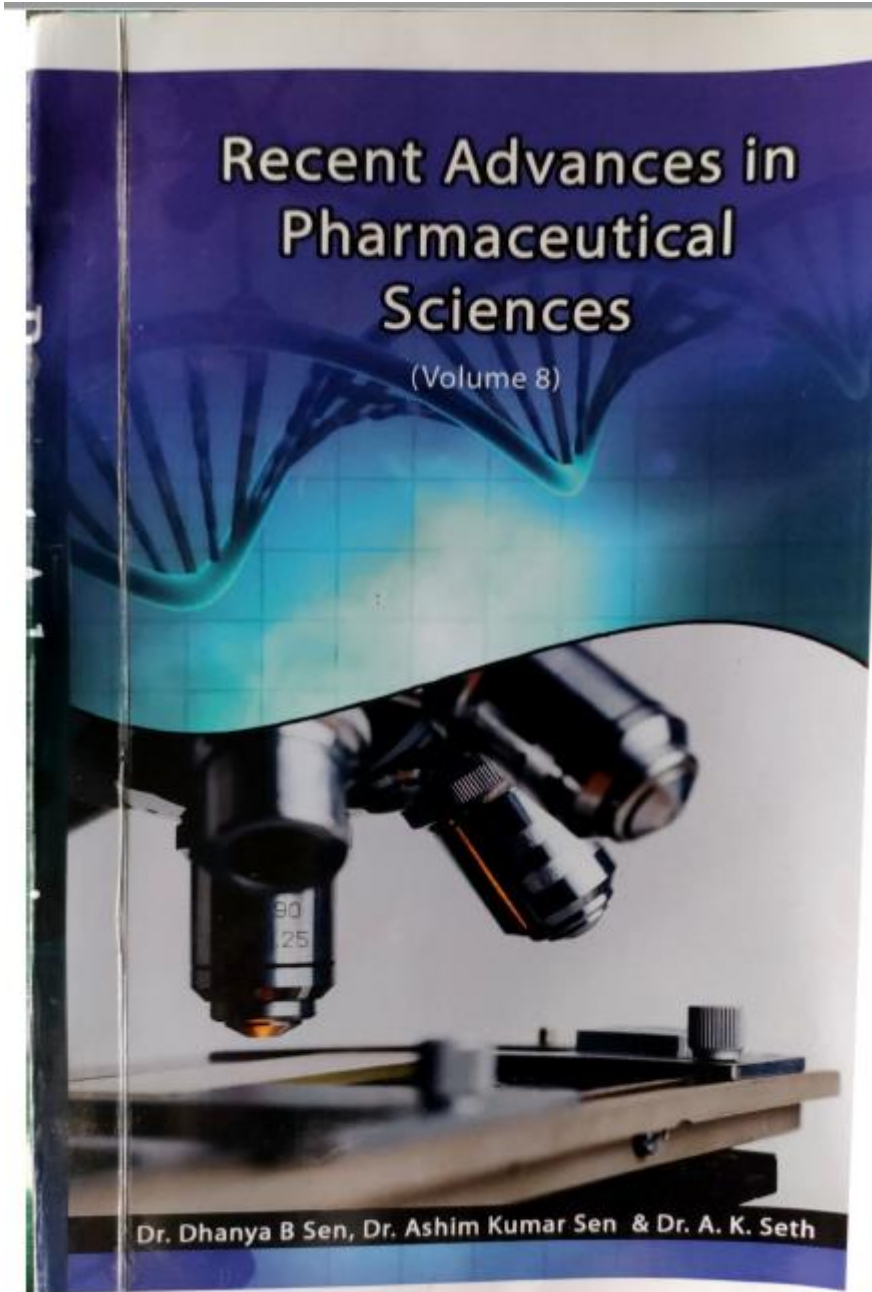
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