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# Therapeutic Peptides and Proteins: Formulation, Processing, and Delivery Systems, Third Edition

*By Ajay K. Banga*



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## Therapeutic Peptides and Proteins: Formulation, Processing, and Delivery Systems, Third Edition By Ajay K. Banga

There are more than 500 biopharmaceuticals on the market, including more than 200 therapeutic proteins, making biologics the fastest growing sector in the biopharmaceutical market. These products include more than 40 monoclonal antibodies, for indications ranging from treatment or mitigation of various types of cancer to rheumatoid arthritis.

The clinical application of these therapeutic peptides and proteins is limited by several problems, such as lack of physical and chemical stability or the lack of desirable attributes for adequate absorption or distribution. Thus, as these therapeutic peptides and proteins are made available, it will be essential to formulate these drugs into safe, stable, and efficacious delivery systems. The pharmaceutical scientist involved in this effort needs to call upon the knowledge of several disciplines, such as pharmaceuticals, medicinal chemistry, biochemistry, microbiology, and chemical engineering and needs to keep abreast with the latest research in the published literature.

Therapeutic Peptides and Proteins: Formulation, Processing, and Delivery Systems, Third Edition provides a comprehensive overview of the field for scientists in industry and academia and for students, while also providing practical information on the challenges facing the formulation and delivery aspects of these unique macromolecules. In particular, the book:

- Explains how recombinant DNA techniques now allow us to produce therapeutic proteins in a commercially viable form
- Discusses the physical and chemical pathways of peptide and protein degradation
- Includes a detailed discussion of protein formulation and lyophilization
- Overviews the pharmacokinetic aspects of therapeutic peptides and proteins and discusses controlled delivery systems for parenteral administration, including microsphere formulations
- Discusses research progress on oral, transdermal, mucosal, and topical delivery systems discusses transdermal and topical delivery

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### **Editorial Review**

#### **About the Author**

Ajay K. Banga is a professor and chair of the Department of Pharmaceutical Sciences at the College of Pharmacy and Health Sciences, Mercer University, Atlanta, Georgia. He obtained a PhD in pharmaceuticals from Rutgers University, New Jersey. Dr. Banga is currently a major advisor to eight PhD students. He currently serves on the editorial board of eight journals and has also served as the Editor-in-Chief for one drug delivery journal. He has served on over 30 thesis/dissertation advisory committees and as a referee for more than 28 journals. Dr. Banga is a fellow of the American Association of Pharmaceutical Scientists. He has written more than 220 publications and scientific abstracts.

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