

Table of Contents

CONTRIBUTORS TO VOLUME 391	ix
PREFACE	xiii
VOLUMES IN SERIES.	xv

Introduction: The Origins of Liposomes: Alec Bangham at Babraham	NEJAT DÜZGÜNEŞ AND GREGORY GREGORIADIS	1
--	---	---

Section I. Liposomal Anticancer Agents

1. Entrapment of Small Molecules and Nucleic Acid-Based Drugs in Liposomes	DAVID B. FENSKE AND PIETER R. CULLIS	7
2. Preparation, Characterization, and Biological Analysis of Liposomal Formulations of Vincristine	DAWN N. WATERHOUSE, THOMAS D. MADDEN, PIETER R. CULLIS, MARCEL B. BALLY, LAWRENCE D. MAYER, AND MURRAY S. WEBB	40
3. Lipophilic Arabinofuranosyl Cytosine Derivatives in Liposomes	RETO SCHWENDENER AND HERBERT SCHOTT	58
4. The Liposomal Formulation of Doxorubicin	SHEELA A. ABRAHAM, DAWN N. WATERHOUSE, LAWRENCE D. MAYER, PIETER R. CULLIS, THOMAS D. MADDEN, AND MARCEL B. BALLY	71
5. Preparation and Characterization of Taxane-Containing Liposomes	ROBERT M. STRAUBINGER AND SATHYAMANGALAM V. BALASUBRAMANIAN	97
6. Cisplatin Nanocapsules	ANTON I. P. M. DE KROON, RUTGER W. H. M. STAFFHORST, BEN DE KRUIJFF, AND KOERT N. J. BURGER	118
7. Liposomal Cytokines in the Treatment of Infectious Diseases and Cancer	TIMO L. M. TEN HAGEN	125

8. Glucuronate-Modified, Long-Circulating Liposomes for the Delivery of Anticancer Agents	NAOTO OKU AND YUKIHIRO NAMBA	145
9. Liposomalized Oligopeptides in Cancer Therapy	TOMOHIRO ASAI AND NAOTO OKU	163
10. Separation of Liposome-Entrapped Mitoxantrone from Nonliposomal Mitoxantrone in Plasma: Pharmacokinetics in Mice	ATEEQ AHMAD, YUE-FEN WANG, AND IMRAN AHMAD	176
11. Methodology and Experimental Design for the Study of Liposome-Dependent Drugs	TIMOTHY D. HEATH	186
12. Liposome-Mediated Suicide Gene Therapy in Humans	REGINA C. RESZKA, ANDREAS JACOBS, AND JÜRGEN VOGES	200

Section II. Liposomal Antibacterial, Antifungal, and Antiviral Agents

13. Use of Liposomes to Deliver Bactericides to Bacterial Biofilms	MALCOLM N. JONES	211
14. Long-Circulating Sterically Stabilized Liposomes in the Treatment of Infections	IRMA A. J. M. BAKKER-WOUDENBERG, RAYMOND M. SCHIFFELERS, GERT STORM, MARTIN J. BECKER, AND LUKE GUO	228
15. Liposome-Encapsulated Antibiotics	ISAM I. SALEM, DIANA L. FLASHER, AND NEJAT DÜZGÜNEŞ	261
16. Tuftsin-Bearing Liposomes as Antibiotic Carriers in Treatment of Macrophage Infections	C. M. GUPTA AND W. HAQ	291
17. Liposomal Polyene Antibiotics	AGATHA W. K. NG, KISHOR M. WASAN, AND GABRIEL LOPEZ-BERESTEIN	304
18. Drug Delivery by Lipid Cochleates	LEILA ZARIF	314
19. Lymphoid Tissue Targeting of Anti-HIV Drugs Using Liposomes	ANDRÉ DÉSORMEAUX AND MICHEL G. BERGERON	330

20. Delivery of Antiviral Agents in Liposomes	NEJAT DÜZGÜNEŞ, SERGIO SIMÕES, VLADIMIR SLEPUSHKIN, ELIZABETH PRETZER, DIANA FLASHER, ISAM I. SALEM, GERHARD STEFFAN, KRYSTYNA KONOPKA, AND MARIA C. PEDROSO DE LIMA	351
---	--	-----

Section III. Miscellaneous Liposomal Therapies

21. Liposomal Vasoactive Intestinal Peptide	VARUN SETHI, HAYAT ÖNYÜKSEL, AND ISRAEL RUBINSTEIN	377
22. Liposomal Superoxide Dismutases and Their Use in the Treatment of Experimental Arthritis	M. EUGÉNIA M. CRUZ, M. MANUELA GASPAR, M. BÁRBARA F. MARTINS, AND M. LUÍSA CORVO	395
23. The Use of Sterically Stabilized Liposomes to Treat Asthma	KAMESWARI S. KONDURI, SANDHYA NANDEDKAR, DAVID A. RICKABY, NEJAT DÜZGÜNEŞ, AND PATTISAPU R. J. GANGADHARAM	413

Section IV. Electron Microscopy of Liposomes

24. Cryoelectron Microscopy of Liposomes	PETER M. FREDERIK AND D. H. W. HUBERT	431
AUTHOR INDEX		449
SUBJECT INDEX		479