Liposome & Nanotechnology

شناسه ران و نام پدیدآور خصات نشر خصات ظاهري سعيت فهرست نويسي داشت داشت ضوع ضوع ضوع ضوع

اسه افزوده اسه افزوده اسه افزوده اسه افزوده ه بندی کنگره ه بندی دیویی ماره کتابشناسی ملی

ضوع

ضوع ضوع

ضوع

ضوع

ضوع

مولفان:

مظلومي تبريزي، مارال، ١٣۶۶ -Mazloumi Tabrizi, Maral Liposome & nanotechnology/ Maral Mazloumi Tabrizi, Seyed Ahmad Hosseini, Azim Akbarzadeh Khiyavi. تهران: مارال مظلومي تبريزي، ١٣٩۶= ٢٠١٧م. ۴۱۵ ص :: مصور ، جدول ، نمودار . 978-600-04-7676-2 قييا انگلیسے كتابنامه. داروسازی -- تکنولوژی Pharmaceutical technology لييوزومها Liposomea نانو کر ہوڑی Nanotechno, gy Nanc me in he دارو رسا ی Drug deliv. v s, cems حسيني، احم ١٣٠١ -Hosse ni Se ed Ahmad اكبرزاده خياو ، ع يم، ١٣٢٠ -A a radeh Khiavy, Azim

KS197/29J9 1899

910/19

FYTFT . 9

لام كتاب : Liposome & Nanotechnology

Maral Mazloumi Tabrizi

Seyed ahmad Hosseini

Azim Akbazadeh Khiyavi

ناشر: تهران: مارال مظلومي تبريزي

نوبت چاپ اول: ۱۳۹٦

نیراژ: ۱۰۰۰ جلد

نيمت: ٥٠٠٠٠ تومان

شابک : ۹۷۸-۹ دویه ۲-۹۷۸

چاپ: کیان دانش - خیالیان فخر رازی ب ۱۷۳

Contents

Chapter 14: Novasome

Novasome, Oral vaccine against gram negative bacterial Infection 218

I-O-A1	Chapter 1: Algosomes kylglycerol vesicles (Algosomes): their formation and Characterization 5
	Chapter 2: Archaesome assessent of archaeosome stability for developing oral delivery systems 11
Oral in	Chapter 3: Bilosome amunisation with peptide and protein antigens by formulation in lipid vesicles incorporating bile salts (bilosomes)20
Cat-ani	Chapter 4: Catanionic vesicle ionic vesicle ionic vesicle-based systems as potential carriers in Nano-technologies 27
Stabiliz	Chapter 5: Cerasome ked liposomal nahybrid cerasomes for drug delivery applications 39
Ethoso	Chapter 6: Ethosome mes: A Novel Tool for Transdermal Drug Delivery 42
The Flu	Chapter 7: Fluorosome aorosome technique for investigating membrane on- and off-loading. Turgs y β-/ D and sonicated SUV 51
A new	Chapter 8: Hemosome intracellular pathway of haem detoxification in the midgut of the cattle boophilus microplus: aggregation inside a fixed organelle, the hemosome 55
CURRI	ENT STATUS OF COLLOIDAL SYSTEM (NAN RA GE)
Charge	Chapter 9: Lipid vesicle d Lipid Vesicles: Effects of Salts on Bending Ligidity, Sta. Lity, and Size 66
Develo	Chapter 10: Liposome pments in liposomal drug delivery system.
Cryo tr	ansmission electron microscopy of poson. Indirelated structures 99
APPLI	CATIONS OF LIGHT AND E. E. TR IN MICROSCOPIC TECHNIQUES IN LIPOSOME RESEARCH 109
Applica	ations of Liposomes 14
RECEN	VT ADVANCES W 'L. OSOMES AS PHARMACEUTICAL CARRIERS 126
Develo	Chapter 11: Nacy of liposome prenent and Characterizeon of Magnetoliposomes for Drug Delivery Applications 143
Marino	Chapter12: Marinosome somes®, marine lipid-based liposomes physical characterization and potential application in cosmetics 173
A REV	Chapter 13: Niosome IEW ON RECENT TRENDS IN NIOSOMAL ANTIGLAUCOMA DRUG DELIVERY SYSTEM 176
Short c	ommunication in vitro: in vivo characterisation of polyhedral niosomes 181
The eff	ect of processing variables on the physical characteristics of non-ionic surfactant vesicles (niosomes) formed from a cyl diglycerol ether 185
Effect o	of formulation and processing variables on the particle size of sorbitan monopalmitate niosomes 190
NIOSO	MES AS A TOOL FOR NOVEL DRUG DELIVERY SYSTEM: A REVIEW 108

Adjuvant properties of non-phospholipid liposomes (Novasome@) in experimental animals for human vaccine antigens 212

Chapter 16: PLARosome
Liposomal drug delivery, a novel approach: PLARosomes235
LIPOSOMAL DRUG DELIVERY SYSTEM: PLAROSOMES242

Chapter 17: Polymer vesicle Polymer Vesicles 248

Chapter 18: Polymersome LIPOSOMAL DRUG DELIVERY SYSTEM: PLAROSOMES 255

Chapter 19: Proliposomes

PROLIPOSOME: A NOVEL APPROACH TO CARRIER DRUG DELEVERY SYSTEM 261

Topical Delivery of Fenoprofen Proliposomes: Preparation, Evaluation and In Vitro Release 270

Chapter 20: Proniosomes

Proniosomes: A Novel Drug Carrier Preparation 276

Maltodextrin-Based Proniosomes 285

Chapter 21: Reversed vesicle

Reverse self-assembly of lipid onions induced by gadolinium and calcium ionst 291

Nanostructure, solvation dynamics, and nanotemplating of plasmonically active SERS substrate in revise vicles 300

Chapter 22: Spherulite

Preparation and in vivo evaluation of PEGylated spherulite formulations 310

Chapter 23: Sphingosome

Composition and Structure of Protein Bodies and Spherosomes Isolated from Ungermated Teeds of Sorghum bicolor (Linn.)

Moench 322

II. Origin and Degradation of Lipid Vesicles in Pea and Bean Cotyledons . 32

Chapter 24: Stealth liposome

Stealth liposomes: review of the basic science, rationale, and clinica appliations, existing and potential 332

Chapter 25: Synthetic vesicle

Compartmentalization and Transport in Synthetic vesicles 3

Chapter 26: Toposome

The toposome, essential for sea urchin cell adhesion and develops, ent, is a modified iron-less calcium-binding transferrin 363

Chapte 27: Transfersome

Transfersomes: A Novel Vesicular Carrie to. 7th, aced fransdermal Delivery of Sertraline: Development, Characterization, and Performance Evaluation 378

TRANSFERSOMES AS A TRANSD. TO. A DRUG DELIVERY SYSTEM FOR ENHANCEMENT THE ANTIFUNGAL ACTIVITY OF NYSTATIN.

Chapter 28: Ver 1e

Vesicular System-Carrier to Delivery 399

Chapter 29: Viro.

Virosome, a hybrid vehicle for effi cient and safe drug delivery and its emerging application in cancer treatment... 407

Virosomes-Hybrid Drug Delivery Systems 415

Preface

Many years that human uses of chemical drugs. No drug in the world that does not have side effects. Enduring all drugs in the body is low, so the drugs problem in the world is overwhelming and it has increased day by day. According to a toxic drug pharmacologist, without all the side effects we used to know it. The last method, the drug is high and stability is low. For this reason, the effect of the drug is low and the drugs used indiscriminately. With the progress in the global pharmaceutical nanotechnology, pharmaceutical industry could use biodegradable nano-carriers: 1) reduced dose 2) and targeted drug delivery and 3) the stability of the drug in the body increases 4) Front drug Klrans in the body, 5) reduced side effects in the body 6) the toxicity of the drugs 7) finally Nano drug delivery side managed to save humanity from multiple complicated problems. We are in this book to help humanity 32 nano drug delivery system that helps human health authoring and production to his highest them to humanity. God and creamy that we have succeeded in compiling this book I am gra-ful.

Azim Akbarzadeh Professor at the Pasteur Institute of Iran

Introduction

Truly revolutionary nanotech products, materials and applications, such as nanodryg deliveri, are years in the future (some say only a few years; some say many years). What qualifies as "nanotechnology" today is basic research and development that is happening in laboratories all over the world.

"Nanotech" products that are on the market today are mostly gradually improved products (using evolutionary nanotechnology) where some form of nano-enabled material (such as nanodrug delivery, nanocomposite structures or nanoparticles of a particular substance) or nanotech process (e.g. nanopatterning or quantum dots for medical imaging) is used in the manufacturing process.

In their ongoing quest to improve existing products by creating smaller components and better performance materials, all at a lower cost, the number of companies that will manufacture "nanoproducts" (by this definition) will grow very fast and soon make up the majority of all companies across many industries. Evolutionary nanotechnology should therefore be viewed as a process that gradually will affect most compan; s and industries.

Due to the advancement of nanotechnology in the world, to serve humanity' ve written this book is for the production of Nano drug delivery system. I hope you're satisfied with humanity and particularly attracted. Merciful, Name nano drug delivery systems in the world are as follows. It is all nanounctured in Iran: Nano Algosome, Nano Archaesome, Nano Bilosome, Nano Catanionic vesicle, Noto Cer some, Nano Ethosome, Nano Fluorosome, Nano Hemosome, Nano Immunoliposome, Nano Lipi nesicle, Nano Liposome, Nano Magnetoliposome, Nano Marinosome, Nano Niosome, Nano Nosome, Nano Nosome, Nano Phospholipid vesicle, Nano Plarosome, Nano Polymer vesicle, Nano Polymerized vesicle. The immersome, Nano Proliposomes, Nano Proniosomes, Nano Reversed vesicle, Nano Spherulite. Nano Spherulite, Nano Spherulite, Nano Spherulite, Nano Spherulite, Nano Virosome, Nano Virosome, God and creamy that we have succeeded in compiling this book. In graneful.

Azim Akbarzadeh Professor at the Pasteur Institute of Lan