



# Colloid and Interface Science in Pharmaceutical Research and Development

Hiroyuki Ohshima  
Kimiko Makino



# Colloid And Interface Science In Pharmaceutical Research And Development

**Kevin Ita**

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## **Colloid And Interface Science In Pharmaceutical Research And Development:**

*Colloid and Interface Science in Pharmaceutical Research and Development* Hiroyuki Ohshima, Kimiko Makino, 2014-07-23 Colloid and Interface Science in Pharmaceutical Research and Development describes the role of colloid and surface chemistry in the pharmaceutical sciences It gives a detailed account of colloid theory and explains physicochemical properties of the colloidal pharmaceutical systems and the methods for their measurement The book starts with fundamentals in Part I covering fundamental aspects of colloid and interface sciences as applied to pharmaceutical sciences and thus should be suitable for teaching Parts II and III treat applications and measurements and they explain the application of these properties and their influence and use for the development of new drugs Provides a clear description of the fundamentals of colloid and interface science relevant to drug research and development Explains the physicochemical colloidal basis of pharmaceutical science Lists modern experimental characterization techniques provides analytical equations and explanations on analyzing the experimental data Describes the most advanced techniques AFM Atomic Force Microscopy SFA Surface Force Apparatus in detail

**Nanolayer Research** Toyoko Imae, 2017-07-04 Nanolayer Research Methodology and Technology for Green Chemistry introduces the topic of nanolayer research and current methodology from the basics to specific applications for green science Each chapter is written by a specialist in their specific research area offering a deep coverage of the topic Nanofilms are explained along with their rapidly emerging applications in electronic devices for smart grids units for cells electrodes for batteries and sensing systems for environmental purposes in applicable subjects Readers will find this book useful not only as a textbook for basic knowledge but also as a reference for practical research Outlines basic principles of nanolayers Includes methodology and technology of nanolayers Contains numerous nanolayers applications

**Chemoinformatics and Bioinformatics in the Pharmaceutical Sciences** Navneet Sharma, Himanshu Ojha, Pawan Raghav, Ramesh K. Goyal, 2021-05-21 Chemoinformatics and Bioinformatics in the Pharmaceutical Sciences brings together two very important fields in pharmaceutical sciences that have been mostly seen as diverging from each other chemoinformatics and bioinformatics As developing drugs is an expensive and lengthy process technology can improve the cost efficiency and speed at which new drugs can be discovered and tested This book presents some of the growing advancements of technology in the field of drug development and how the computational approaches explained here can reduce the financial and experimental burden of the drug discovery process This book will be useful to pharmaceutical science researchers and students who need basic knowledge of computational techniques relevant to their projects Bioscientists bioinformaticians computational scientists and other stakeholders from industry and academia will also find this book helpful Provides practical information on how to choose and use appropriate computational tools Presents the wide intersecting fields of chemo bio informatics in an easily accessible format Explores the fundamentals of the emerging field of chemoinformatics and bioinformatics

**Fundamentals of Soft Interfaces in Colloid and Surface Chemistry**

Hiroiyuki Ohshima,2024-09-10 This book explains and summarizes the fundamentals of soft interfaces and soft particles from a colloid and surface chemistry standpoint bringing knowledge together into a single resource for the first time It provides detailed mathematical description of colloidal and interfacial systems with a particular emphasis on ionic electrokinetic and electrostatic phenomena Hiroiyuki Ohshima covers the most recent theoretical advances in the field of electrostatic interactions between soft interfaces electrophoresis diffusiophoresis gel electrophoresis of soft particles including ionic size effects ion partitioning effects and the effects of hydrodynamic slip on hydrophobic surfaces It will help readers by providing a range of approximate analytic formulas which can be used to interpret various interfacial phenomena of soft interfaces and analyze experimental data in various fields Fundamentals of Soft Interfaces in Colloid and Surface Chemistry is written for graduate students and researchers chiefly in chemistry but also chemical engineering physics and materials science Utilizes rigorous theories and the various useful approximate analytical formulas based upon them Describes basic theories for various electrostatic and electrokinetic phenomena of soft interfaces Provides many formulas used to interpret and analyze experimental data of soft interfaces

**Foam Films and Foams** Dotchi Exerowa,Georgi Gochev,Dimo Platikanov,Libero

Liggieri,Reinhard Miller,2018-07-27 This book describes in detail the scientific philosophy of the formation and stabilization destabilization of foams It presents all hierarchical steps of a foam starting from the properties of adsorption layers formed by foaming agents discussing the properties of foam films as the building blocks of a foam and then describing details of real foams including many fields of application The information presented in the book is useful to people working on the formulation of foams or attempting to avoid or destruct foams in unwanted situations Nanophytomedicine

Parimelazhagan Thangaraj,Lucindo Jose Quintans Junior,N. Ponpandian,2022-10-10 Nanophytomedicine is a branch of medicine that involves the application of nanomedicine based systems to phytotherapy and phytopharmacology and the use of phytonanoparticles for biomedical applications Nanophytomedicine covers recent advances in experimental and theoretical studies on various properties of nanoparticles derived from plant sources This book assesses the recent advancements and applications of plant based nanoparticles and also highlights emerging concepts of biomimetics The book contains 24 chapters encompassing various therapeutic applications of phytochemicals derived from plants ferns seaweeds and so on mediated through nanotechnology and its allied approaches A fervent attempt has been made to compile every significant advancement in the field of phytonanomedicine so as to accelerate its momentum in the pharmaceutical sector

**Molecular Dynamics of Nanostructures and Nanoionics** Junko Habasaki,2020-11-30 Nanostructured materials with multiple components and complex structures are the current focus of research and are expected to develop further for material designs in many applications in electrochemical colloidal medical pharmaceutical and several other fields This book discusses complex nanostructured systems exemplified by nanoporous silicates spontaneously formed gels from silica nanocolloidal solutions and related systems and examines them using molecular dynamics simulations Nanoporous materials

nanocolloidal systems and gels are useful in many applications and can be used in electric devices and storage and for gas ion and drug delivery The book gives an overview of the history current status and frontiers of the field It also discusses the fundamental aspects related to the common behaviors of some of these systems and common analytical methods to treat them

***Transdermal Drug Delivery*** Kevin Ita, 2020-06-12 *Transdermal Drug Delivery Concepts and Application* provides comprehensive background knowledge and documents the most recent advances made in the field of transdermal drug delivery It provides comprehensive and updated information regarding most technologies and formulation strategies used for transdermal drug delivery There has been recent growth in the number of research articles reviews and other types of publications in the field of transdermal drug delivery Research in this area is active both in the academic and industry settings Ironically only about 40 transdermal products with distinct active pharmaceutical ingredients are in the market indicating that more needs to be done to chronicle recent advances made in this area and to elucidate the mechanisms involved This book will be helpful to researchers in the pharmaceutical and biotechnological industries as well as academics and graduate students working in the field of transdermal drug delivery and professionals working in the field of regulatory affairs focusing on topical and transdermal drug delivery systems Researchers in the cosmetic and cosmeceutical industries as well as those in chemical and biological engineering will also find this book useful Captures the most recent advancements and challenges in the field of transdermal drug delivery Covers both passive and active transdermal drug delivery strategies Explores a selection of state of the art transdermal drug delivery systems

**Antibacterial Drug Discovery to Combat MDR** Iqbal Ahmad, Shamim Ahmad, Kendra P. Rumbaugh, 2019-11-09 This book compiles the latest information in the field of antibacterial discovery especially with regard to the looming threat of multi drug resistance The respective chapters highlight the discovery of new antibacterial and anti infective compounds derived from microbes plants and other natural sources The potential applications of nanotechnology to the fields of antibacterial discovery and drug delivery are also discussed and one section of the book is dedicated to the use of computational tools and metagenomics in antibiotic drug discovery Techniques for efficient drug delivery are also covered The book provides a comprehensive overview of the progress made in both antibacterial discovery and delivery making it a valuable resource for academic researchers as well as those working in the pharmaceutical industry

**Science of Spices and Culinary Herbs - Latest Laboratory, Pre-clinical, and Clinical Studies** Atta-ur-Rahman, M. Iqbal Choudhary, Sammer Yousuf, 2019-08-29 Many herbs and spices in addition to their culinary use for taste contain chemical compounds which have medicinal uses For this reason herbs and spices have been used for treating various ailments since ancient times Modern scientific methods have enabled researchers to isolate bioactive compounds from herbs and spices and perform chemical analyses which can be used to develop medicines to treat different diseases This book series is a compilation of current reviews on studies performed on herbs and spices Science of Spices Culinary Herbs is essential reading for medicinal chemists herbalists and biomedical researchers

interested in the science of natural herbs and spices that are a common part of regional diets and folk medicine      A

*Comprehensive Text Book on Self-emulsifying Drug Delivery Systems* Deepak Kaushik, Ravinder Verma, 2021-07-01 This text book is a guide for pharmaceutical academics students and teachers as well as industry professionals learning about drug delivery and formulation Chapters presents comprehensive information about self emulsifying formulations by providing an in depth understanding of the basic concepts and formulation mechanisms This information is supplemented by details about current research and development in this field Readers will learn about the types of self emulsifying drug delivery systems evaluation parameters and digestion models among other topics Key Features 9 chapters organized in a reader friendly layout complete guide on self emulsifying drug delivery formulations including lipid based systems SMEDOs surfactants and oral dosage forms includes basic concepts and current developments in research and industrial applications presents information on conventional and herbal formulations references for further reading      *Bioinformatics Tools and Big Data Analytics for Patient Care* Rishabha Malviya, Pramod Kumar Sharma, Sonali Sundram, Rajesh Kumar Dhanaraj, Balamurugan Balusamy, 2022-08-31 Nowadays raw biological data can be easily stored as databases in computers but extracting the required information is the real challenge for researchers For this reason bioinformatics tools perform a vital role in extracting and analyzing information from databases Bioinformatics Tools and Big Data Analytics for Patient describes the applications of bioinformatics data management and computational techniques in clinical studies and drug discovery for patient care The book gives details about the recent developments in the fields of artificial intelligence cloud computing and data analytics It highlights the advances in computational techniques used to perform intelligent medical tasks Features Presents recent developments in the fields of artificial intelligence cloud computing and data analytics for improved patient care Describes the applications of bioinformatics data management and computational techniques in clinical studies and drug discovery Summarizes several strategies analyses and optimization methods for patient healthcare Focuses on drug discovery and development by cloud computing and data driven research The targeted audience comprises academics research scholars healthcare professionals hospital managers pharmaceutical chemists the biomedical industry software engineers and IT professionals      **Pharmaceutical Emulsions** Dipak Kumar Sarkar, 2013-07-26 Pharmaceutical Emulsions A Drug Developer s Toolbag covers all the key aspects of pharmaceutical emulsions starting from the fundamental scientific basics to the pharmaceutical forms and the chemical tests for its application The author uses his extensive experience in both industry and academic experience to provide a concise student friendly guide to the essential fundamentals of physical pharmacy Divided into three clear sections the text begins with Section A Consideration for Product Medicinal Formulation which includes a historical perspective explanation of what is an emulsion stability and instability and manufacture Section B Forms Use and Application follows with chapters on creams and ointments pastes and bases colloids transdermal gels and implants The final Section Tests Chemistry to control the quality efficacy and fitness for purpose of the product includes

chapters on physicochemical properties, sizing and microscopy, rheology, QC and finally questions, calculations and dilemmas. Throughout the text there are numerous figures, diagrams and tables to engage the reader. This is an invaluable reference for all students of pharmaceutical sciences, pharmacy, industrial pharmaceutical sciences, physical pharmacy and pharmaceutical forms as well as industry professionals.

**Nuclear Magnetic Resonance** G. A. Webb, 2006. As a spectroscopic method, nuclear magnetic resonance (NMR) has seen spectacular growth both as a technique and in its applications. Today's applications of NMR span a wide range of scientific disciplines from physics to biology to medicine. Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic. This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports: NMR of Proteins and Nucleic Acids and NMR of Carbohydrates, Lipids and Membranes. For those wanting to become rapidly acquainted with specific areas of NMR, Nuclear Magnetic Resonance provides unrivalled scope of coverage. Seasoned practitioners of NMR will find this an invaluable source of current methods and applications. Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research. Compiled by teams of leading experts in their specialist fields, this series is designed to help the chemistry community keep current with the latest developments in their field. Each volume in the series is published either annually or biennially and is a superb reference point for researchers. [www.rsc.org/spr](http://www.rsc.org/spr)

**Colloids in Drug Delivery** Monzer Fanun, 2016-04-19. Colloidal drug delivery systems present a range of therapeutic benefits in the treatment of a number of challenging conditions, allowing researchers to cross barriers that have previously prevented efficient treatment while offering improved and more targeted absorption. Summarizing recent research in the field, **Colloids in Drug Delivery** assembles

**Theranostics Nanomaterials in Drug Delivery** Prashant Kesharwani, N.K. Jain, 2024-10-10. **Theranostics Nanomaterials in Drug Delivery** presents the most recent advances in the development of theranostic nanomaterials for drug delivery. This book compiles reports and studies on the latest changes and improvements of theranostic nanocarriers such as nanoemulsions, liposomes, exosomes, polymeric micelles, PLGA nanoparticles, chitosan nanoparticles, dendrimers, quantum dots, silica nanoparticles, gold nanoparticles, silver nanoparticles, magnetic nanoparticles and many more, all of which can help in the sensitive diagnosis, precise targeting and efficient and controlled delivery of nanomaterials to control various diseases at different clinical stages. **Theranostics nanomaterials in drug delivery** will serve as a solid foundation and reference for pharmaceutical scientists, undergraduate and postgraduate students, researchers and experts in the medical field involved in the development of advanced drug delivery systems. Presents a compilation of thoroughly analyzed data and results regarding the usage of theranostics nanocarriers as a platform for diagnosis and treatment of various diseases. Gathers novel drug delivery applications of theranostics nanocarriers in biological milieu and discusses the principles behind the formation, characterization, applications and future perspectives of theranostics for

targeted therapy development Discusses the most recent technologies in theranostics nanometrials to help readers define major gaps in knowledge that can lead new scientific breakthroughs and discoveries *Handbook of Lipid Membranes* Cyrus R. Safinya,Joachim O. Rädler,2021-09-14 This handbook provides a unique overview of lipid membrane fundamentals and applications The fascinating world of lipids that harbor and govern so many biological functionalities are discussed within the context of membrane structures interactions and shape evolution Beyond the fundamentals in lipid science this handbook focuses on how scientists are building bioinspired biomimetic systems for applications in medicine cosmetics and nanotechnology Key Features Includes experimental and theoretical overviews on the role of lipids with or without associated biomolecules as structural components imparting distinct membrane shapes and intermembrane interactions Covers the mechanisms of lipid membrane curvature by peptide and protein binding and the roles of signalling lipids and the cytoskeleton in plasma membrane shape evolution Covers advanced X ray and force measurement techniques Discusses applications in biomedicine cosmetics and nanotechnology including lipid vectors in nucleic acid drug delivery in dermal applications and lipid based sensors and artificial biointerfaces Covers artificial membranes from block copolymers synthetic copolypeptides and recombinant proteins Includes an exciting section that explores the role of lipids in the origin of life in hydrothermal conditions This book is a highly informative companion for professionals in biophysics biochemistry physical chemistry and material and pharmaceutical sciences and bioengineering **Innovation in the Food Sector Through the Valorization of Food and Agro-Food By-Products** Ana Novo de Barros,Irene Gouvinhas,2021-07-14 This book presents an integrated and multidisciplinary approach to quality and innovation in the food sector with particular emphasis on consumer perception of quality Chapters cover such topics as identification of environmental variables practices crops and cultivars to improve nutritional and functional quality of different food matrices increased preservation of biodiversity through the use of genetic resources nutritional and functional characterization of food matrices and evaluation of the main bioactive substances that give food its functional qualities Trends and Challenges in Multidisciplinary Research for Global Sustainable Development Angel Moisés Hernández Ponce,Khemisset Marcos Escobar,Liline Daniel Canales Hernández,Marivel Zea Ortiz,Róger E. Sánchez Alonso,2024-04-29 Since its beginning the International Conference on Applied Sciences and Advanced Technology ICASAT was planned as a multidisciplinary space and as a platform to explore the frontiers of knowledge in different areas such as Machine Vision Biotechnology Computer Sciences Mechatronics and Sustainability Also a multidisciplinary perspective is required in all aspects of science engineering and research moving towards a more complete overview of recent advances On its third edition ICASAT received works focused on the Trends and Challenges for Global Sustainable Development This book is a collection of the works presented during ICASAT 2023 *Public Health and Toxicology Issues in Drug Research, Volume 2* Rakesh Kumar Tekade,2024-03-26 Toxicodynamics in Drug Research Volume 2 Public Health and Toxicology Issues examines the implications of public health issues and the



impact of pharmaceuticals chemical and food toxicants dietary phytochemicals and medical treatments on human health  
Volume 2 Public Health and Toxicology Issues in Drug Research Toxicity and Toxicodynamics covers topics on pharmacokinetics and toxicokinetics such as population pharmacokinetics toxicokinetics the design of toxicokinetic studies and the use of toxicokinetic data in preclinical safety assessments The book investigates the health effect caused by the bioaccumulation of pharmaceutical and personal care products and the impact of drug induced toxicity on different systems of the body It discusses the mechanistic pathways of food toxicants and illustrates the molecular mechanisms of the chemopreventive role of dietary phytochemicals It also delves into the toxic effects of medical treatments and materials Ethical legal societal and professional issues in toxicology round off the coverage providing a valuable resource to interested in learning more about the health impact and public health issues related to the toxicity of pharmaceuticals dietary supplements personal care products and medical treatments Discusses the impact of pharmaceuticals food and chemical toxicants on human health Examines the toxic effects of medical treatments clinical administrations and materials Explores public health issues around drug safety and toxicology

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