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Research Article Formulation Development and
Research Article Formulation Development and Characterization of Nanostructured Hetrolipid Matrix of Levofloxacin Hemihydrate for Ocular Drug Delivery Sachin R Verma* and Abha Doshi MET Institute of Pharmacy, Bandra, 400050, India Abstract Solid lipid nanoparticles (SLNs) formulated using one type of lipid (homolipid)

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Research Article Formulation Development and Evaluation of Fast Disintegrating Tablets of Salbutamol Sulphate, Cetirizine Hydrochloride in Combined Pharmaceutical Dosage Form: A New Era in Novel Drug Delivery for Pediatrics and Geriatrics Deepak Sharma,1 Gurmeet Singh,2 Dinesh Kumar,3 and Mankaran Singh4 1

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The main criteria of the present work is formulation development of Clarithromycin topical gel by using four types of gelling agents Na CMC, Hydroxy propyl cellulose, Guar gum, Poloxamer 407 and study the gelling agents affecting on the release of drug.3,4

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The analytical chemistry or the analytical development lab often executes the majority of the formulation tasks, as they are already the ‘ experts ’ in the analytical assays, most often high performance liquid chromatography (HPLC) assays, which are an integral part of product development. Types of Projects Formulation development encompasses a very wide range of activities. Traditionally, formulation covers such functions as pre-formulation, including analytical assay de-velopment and ...

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Our formulation development team has extensive experience in different dosage form development for both New Chemical Entity (NCE) as well as generic product development applying our technical skills, efficiency and quality consciousness to develop robust products. Our expertise lies in overcoming the challenges faced during formulation development and offer solutions to overcome flowability, solubility, wettability, dissolution, degradation, bioavailability issues encountered during development.

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Zinc sulphate tablets are indicated for the management of diarrhoea in children regardless of the cause. In Tanzania, there is only one pharmaceutical industry manufacturing zinc sulphate tablets and only 44% of children in need of zincsulphate tablets get access to them. Fast-disintegrating tablets of zinc sulphate were prepared by direct-compression method after incorporating the ...

Formulation development and optimization of taste masked ...
Journal of Chemical and Pharmaceutical Research, 2015, 7(9):88-99 Research Article ISSN : 0975-7384 CODEN(USA) : JCPRC5 88 Formulation development and optimization of controlled release microspheres of Aceclofenac using response surface methodology Ketan J. Patel 1* and Abhay Dharamsi 2

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The efficacy of formulation was evaluated in patients by subjective assessment, gamma scintigraphic approaches, and confocal microscopy. Methods: Nifedipine-loaded different formulations such as sucrose bead, pellets, and microparticles (slugging method, ionotropic gelation, and chemical denaturation) were designed. The studies were performed on 50 subjects, of which 30 subjects were treated with optimized nifedipine loaded microcapsules while 20 subjects were given capsule becosule-Z as a ...

Formulation development and evaluation of nifedipine as ...
In the development of the co-transfer formulation, the nano-formulation exhibits good bioavailability and compatibility. For example, polymeric micelles (PMs) are self-assemblies of block copolymers providing numerous opportunities for drug delivery. Besides, the nano-encapsulated anticancer agent targeting specific tumor tissues can significantly optimize the therapeutic efficacy of the drug.

A range of new and innovative tools used for preformulation and formulation of medicines help optimize pharmaceutical development projects. Such tools also assist with the performance evaluation of the pharmaceutical process, allowing any potential gaps to be identified. These tools can be applied in both basic research and industrial environment. Formulation tools for pharmaceutical development considers these key research and industrial tools. Nine chapters by leading contributors cover: Artificial neural networks technology to model, understand, and optimize drug formulations; ME_expert 2.0: a heuristic decision support system for microemulsions formulation development; Expert system for the development and formulation of push-pull osmotic pump tablets containing poorly water-soluble drugs; SeDeM Diagram: an expert system for preformulation, characterization and optimization of tables obtained by direct compression; New SeDeM-ODT expert system: an expert system for formulation of orodispersible tablets obtained by direct compression; and 3D-cellular automata in computer-aided design of pharmaceutical formulations: mathematical concept and F-CAD software. Coverage of artificial intelligence tools, new expert systems, understanding of pharmaceutical processes, robust development of

medicines, and new ways to develop medicines Development of drugs and medicines using mathematical tools Compilation of expert system developed around the world

Teaches future and current drug developers the latest innovations in drug formulation design and optimization This highly accessible, practice-oriented book examines current approaches in the development of drug formulations for preclinical and clinical studies, including the use of functional excipients to enhance solubility and stability. It covers oral, intravenous, topical, and parenteral administration routes. The book also discusses safety aspects of drugs and excipients, as well as regulatory issues relevant to formulation. Innovative Dosage Forms: Design and Development at Early Stage starts with a look at the impact of the polymorphic form of drugs on the preformulation and formulation development. It then offers readers reliable strategies for the formulation development of poorly soluble drugs. The book also studies the role of reactive impurities from the excipients on the formulation shelf life; preclinical formulation assessment of new chemical entities; and regulatory aspects for formulation design. Other chapters cover innovative formulations for special indications, including oncology injectables, delayed release and depot formulations; accessing pharmacokinetics of various dosage forms; physical characterization techniques to assess amorphous nature; novel formulations for protein oral dosage; and more. -Provides information that is essential for the drug development effort -Presents the latest advances in the field and describes in detail innovative formulations, such as nanosuspensions, micelles, and cocrystals -Describes current approaches in early pre-formulation to achieve the best in vivo results -Addresses regulatory and safety aspects, which are key considerations for pharmaceutical companies -Includes case studies from recent drug development programs to illustrate the practical challenges of preformulation design Innovative Dosage Forms: Design and Development at Early Stage provides valuable benefits to interdisciplinary drug discovery teams working in industry and academia and will appeal to medicinal chemists, pharmaceutical chemists, and pharmacologists.

How to Develop Robust Solid Oral Dosage Forms from Conception to Post-Approval uses a practical and hands-on approach to cover the development process of solid oral dosage forms in one single source. The book details all of the necessary steps from formulation through the post-approval phase and contains industry case studies, real world advice, and troubleshooting tips. By merging the latest scientific information with practical instructions, this book provides pharmaceutical scientists in formulation research and development with a concrete look at the key aspects in the development of solid oral dosage forms. Focuses on important topics, such as robustness, bioavailability, formulation design, continuous processing, stability tests, modified release dosage forms, international guidelines, process scale-up, and much more Part of the Expertise in Pharmaceutical Process Technology series edited by Michael Levin Discusses common, real-world problems and offers both theoretical and practical solutions to these everyday issues

There are unique challenges in the formulation, manufacture, analytical chemistry, and regulatory requirements of low-dose drugs. This book provides an overview of this specialized field and combines formulation, analytical, and regulatory aspects of low-dose development into a single reference book. It describes analytical methodologies like dissolution testing, solid state NMR, Raman microscopy, and LC-MS and presents manufacturing techniques such as granulation, compaction, and compression. Complete with case studies and a discussion of regulatory requirements, this is a core reference for pharmaceutical scientists, regulators, and graduate students.

Strategies for Formulations Development: A Step-by-Step Guide Using JMP is based on the authors' significant practical experience partnering with scientists to develop strategies to accelerate the formulation (mixtures) development process. The authors not only explain the most important methods used to design and analyze formulation experiments, but they also present overall strategies to enhance both the efficiency and effectiveness of the development process. With this book you will be able to: Approach the development process from a strategic viewpoint with the overall end result in mind. Design screening experiments to identify components that are most important to the performance of the formulation. Design optimization experiments to identify the maximum response in the design space. Analyze both screening and optimization experiments using graphical and numerical methods. Optimize multiple criteria, such as the quality, cost, and performance of product formulations. Design and analyze formulation studies that involve both formulation components and process variables using methods that reduce the required experimentation by up to 50%. Linking dynamic graphics with powerful statistics, JMP helps construct a visually compelling narrative to interactively share findings that are coherent and actionable by colleagues and decision makers. Using this book, you can take advantage of computer generated experiment designs when classical designs do not suffice, given the physical and economic constraints of the experiential environment. Strategies for Formulations Development: A Step-by-Step Guide Using JMP(R) is unique because it provides formulation scientists with the essential information they need in order to successfully conduct formulation studies in the chemical, biotech, and pharmaceutical industries.

Developing Solid Oral Dosage Forms: Pharmaceutical Theory and Practice, Second Edition illustrates how to develop high-quality, safe, and effective pharmaceutical products by discussing the latest techniques, tools, and scientific advances in preformulation investigation, formulation, process design, characterization, scale-up, and production operations. This book covers the essential principles of physical pharmacy, biopharmaceutics, and industrial pharmacy, and their application to the research and development process of oral dosage forms. Chapters have been added, combined, deleted, and completely revised as necessary to produce a comprehensive, well-organized, valuable reference for industry professionals and academics engaged in all aspects of the development process. New and important topics include spray drying, amorphous solid dispersion using hot-melt extrusion, modeling and simulation, bioequivalence of complex modified-released dosage forms, biowaivers, and much more. Written and edited by a international team of leading experts with experience and knowledge across industry, academia, and regulatory settings Includes new chapters covering the pharmaceutical applications of surface phenomenon, predictive biopharmaceutics and pharmacokinetics, the development of formulations for drug discovery support, and much more Presents new case studies throughout, and a section completely devoted to regulatory aspects, including global product regulation and international perspectives

Detailing formulation approaches by stage of discovery to early development, this book gives a “ playbook ” of practical and efficient strategies to formulate drug candidates with the least chance of failing in clinical development. • Comes from contributing authors with experience developing formulations on the frontlines of the pharmaceutical industry • Focuses on pre (or non-) clinical and early stage development, the phases where most compounds are used in drug research • Features case studies to illustrate practical challenges and solutions in formulation selection • Covers regulatory filing, drug metabolism and physical and chemical properties, toxicology formulation, biopharmaceutics classification system (BCS), screening approaches, early stage clinical formulation development, and outsourcing

Pharmaceutical formulations have evolved from simple and traditional systems to more modern and complex novel dosage forms. Formulation development is a tedious process and requires an enormous amount of effort from many different people. Developing a

stable novel dosage form and further targeting it to the desired site inside the body has always been a challenge. The purpose of this book is to bring together scholarly articles that highlight recent developments and trends in pharmaceutical formulation science. Each article has been written by authors specializing in the subject area and hailing from top institutions around the world. The book has been written in a systematic and lucid style explaining all basic concepts and fundamentals in a very simple way. This book aims to serve the need of all individuals involved at any level in the pharmaceutical dosage form development. I sincerely hope that the book will be liked by inquisitive students and learned colleagues.

Originally published in 1971, this volume contains papers invited for a conference on economic research relevant to national urban development held in September of the same year. The conference pulled together researchers from both the United Kingdom and the United States who were interested in economic research on key issues of both countries ' management of their urban areas. Papers are varied from those in the early stages of research to those whose research has been completed and all provide an insight into the increase of urbanisation present in the first world. This title will be of interest to students of environmental studies and economics.

The 3D printing (3DP) process was patented in 1986; however, only in the last decade has it begun to be used for medical applications, as well as in the fields of prosthetics, bio-fabrication, and pharmaceutical printing. 3DP or additive manufacturing (AM) is a family of technologies that implement layer-by-layer processes in order to fabricate physical models based on a computer aided design (CAD) model. 3D printing permits the fabrication of high degrees of complexity with great reproducibility in a fast and cost-effective fashion. 3DP technology offers a new paradigm for the direct manufacture of individual dosage forms and has the potential to allow for variations in size and geometry as well as control dose and release behavior. Furthermore, the low cost and ease of use of 3DP systems means that the possibility of manufacturing medicines and medical devices at the point of dispensing or at the point of use could become a reality. 3DP thus offers the perfect innovative manufacturing route to address the critical capability gap that hinders the widespread exploitation of personalized medicines for molecules that are currently not easy to deliver. This Special Issue will address new developments in the area of 3D printing and bioprinting for drug delivery applications, covering the recent advantages and future directions of additive manufacturing for pharmaceutical products.