Pharmaceutical Techniques in Drug Delivery

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Edited by

Dr. Kranthi Kumar K

Department of Pharmaceutics
College of Pharmaceutical Sciences
Dayananda Sagar University,
Bengaluru, Karnataka, INDIA

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“To the hands that raised me,
The minds that taught me,
The hearts that supported me,
And the spirit of inquiry that drives me.
This is for you”.

Dr. Kranthi Kumar K

“Books and Bullets”

In lands where silence bruised the air,
He rose with truth no tyrant could bear.
Not just with guns, but with a pen,
He taught the minds of sleeping men.

"Let every child learn how to write,
For knowledge is the fiercest fight.
No chain can hold a mind set free,
A literate heart beats liberty."

He walked through war with words in hand,
A dreamer bound to no command.
His voice—half fire, half lullaby—
Still echoes in the teacher's cry.

"Don’t raise the sword, until you try
To raise a book, and ask them why."
He knew a school could build a wall
No empire’s gold could make fall.

So light the lamp and pass it on,
The lesson's ink is never gone.
In every classroom, every street—
Che’s rhythm marches in our feet.

Inspired by Che Guevara

TABLE OF CONTENTS

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PREFACE

The complexity of modern drug development demands a comprehensive understanding of both the theoretical principles and the applied strategies in drug delivery and targeting. This book is intended as a research-oriented resource, designed to reflect the evolving landscape of pharmaceutical sciences.

Built upon original research findings, current methodologies, and recent advancements in formulation science, this volume bridges the gap between laboratory innovation and therapeutic application. Each chapter aims to provide readers with an in-depth analysis of critical areas—ranging from formulation development and characterization techniques to advanced delivery platforms and targeted therapies.

The content is particularly intended for researchers, postgraduate students, and professionals engaged in formulation science, pharmaceutics, pharmacokinetics, and translational research. It is my sincere hope that this work not only informs but also inspires future research and innovation in this vital domain of healthcare.

LIST OF FIGURES